



Australian Government

National Health and Medical Research Council

2019 Survey of research culture in Australian NHMRC-funded institutions

Appendix C: Frequency results by participant group

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
A. Your role

q3mr. How would you describe your research / the research conducted at your institution / the proposals considered by your ethics committee? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	Discovery	335	50.9%
		Preclinical	196	29.8%
		Hospital clinical	148	22.5%
		Other clinical	124	18.8%
		Health services	149	22.6%
		Public health	189	28.7%
		Epidemiology	157	23.9%
		Implementation research	123	18.7%
		Qualitative research	111	16.9%
		Quantitative research	266	40.4%
		Translational research	300	45.6%
		Research on research (meta-research)	36	5.5%
		Other	19	2.9%
		Number of Respondents		
Mid-career researcher	Valid	Discovery	168	42.3%
		Preclinical	107	27.0%
		Hospital clinical	76	19.1%
		Other clinical	51	12.8%
		Health services	83	20.9%
		Public health	121	30.5%
		Epidemiology	106	26.7%
		Implementation research	65	16.4%
		Qualitative research	82	20.7%
		Quantitative research	183	46.1%
		Translational research	142	35.8%
		Research on research (meta-research)	24	6.0%
		Other	18	4.5%
		Number of Respondents		
Junior researcher	Valid	Discovery	89	31.3%
		Preclinical	61	21.5%
		Hospital clinical	49	17.3%
		Other clinical	44	15.5%
		Health services	72	25.4%
		Public health	101	35.6%
		Epidemiology	73	25.7%
		Implementation research	57	20.1%
		Qualitative research	82	28.9%
		Quantitative research	145	51.1%
		Translational research	111	39.1%
		Research on research (meta-research)	16	5.6%
		Other	5	1.8%
		Number of Respondents		
Research student	Valid	Discovery	40	26.8%
		Preclinical	18	12.1%
		Hospital clinical	27	18.1%
		Other clinical	15	10.1%
		Health services	34	22.8%
		Public health	53	35.6%
		Epidemiology	24	16.1%
		Implementation research	20	13.4%
		Qualitative research	49	32.9%
		Quantitative research	67	45.0%
		Translational research	43	28.9%
		Research on research (meta-research)	9	6.0%
		Other	10	6.7%
		Number of Respondents		
Representative of an institution	Valid	Discovery	82	77.4%
		Preclinical	66	62.3%
		Hospital clinical	62	58.5%
		Other clinical	55	51.9%
		Health services	81	76.4%
		Public health	81	76.4%
		Epidemiology	63	59.4%
		Implementation research	63	59.4%
		Qualitative research	84	79.2%
		Quantitative research	85	80.2%
Translational research	93	87.7%		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group

A. Your role

q3mr. How would you describe your research / the research conducted at your institution / the proposals considered by your ethics committee? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Current member of a Human Research Ethics Committee (HREC)	Valid	Research on research (meta-research)	33	31.1%
		Other	3	2.8%
		Number of Respondents	106	100.0%
		Discovery	52	41.3%
		Preclinical	51	40.5%
		Hospital clinical	80	63.5%
		Other clinical	63	50.0%
		Health services	92	73.0%
		Public health	78	61.9%
		Epidemiology	59	46.8%
		Implementation research	59	46.8%
		Qualitative research	109	86.5%
		Quantitative research	101	80.2%
		Translational research	51	40.5%
		Research on research (meta-research)	31	24.6%
Other	9	7.1%		
Number of Respondents	126	100.0%		
Current member of an Animal Ethics Committee (AEC)	Valid	Discovery	30	62.5%
		Preclinical	18	37.5%
		Hospital clinical	1	2.1%
		Other clinical	4	8.3%
		Health services	3	6.3%
		Public health	10	20.8%
		Epidemiology	10	20.8%
		Implementation research	15	31.3%
		Qualitative research	23	47.9%
		Quantitative research	28	58.3%
		Translational research	18	37.5%
		Research on research (meta-research)	4	8.3%
		Other	8	16.7%
		Number of Respondents	48	100.0%

q4. Which of the following most closely matches your current primary role / job title?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Missing	System	658	100.0			
Mid-career researcher	Missing	System	397	100.0			
Junior researcher	Missing	System	284	100.0			
Research student	Missing	System	149	100.0			
Representative of an institution	Valid	Chief Executive Officer	1	.9	1.0	1.0	
		Executive Director	1	.9	1.0	1.9	
		General Manager	2	1.9	1.9	3.8	
		Deputy Vice-Chancellor	4	3.8	3.8	7.6	
		Pro Vice-Chancellor	2	1.9	1.9	9.5	
		Director	15	14.2	14.3	23.8	
		Department / Faculty / Research Group Head	3	2.8	2.9	26.7	
		Research Administration Officer	39	36.8	37.1	63.8	
		Research Integrity Advisor	2	1.9	1.9	65.7	
		Research Integrity Officer	14	13.2	13.3	79.0	
		Other	22	20.8	21.0	100.0	
		Total	105	99.1	100.0		
		Missing	System	1	.9		
		Total		106	100.0		
		Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0	
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group

A. Your role

q5. What is your current role on the Human Research Ethics Committee (HREC)?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Missing	System	658	100.0		
Mid-career researcher	Missing	System	397	100.0		
Junior researcher	Missing	System	284	100.0		
Research student	Missing	System	149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Chair	17	13.5	13.5	13.5
		Layperson	31	24.6	24.6	38.1
		Person with knowledge of, and current experience in, the professional care, counselling or treatment of people	18	14.3	14.3	52.4
		Person who performs a pastoral care role in a community	8	6.3	6.3	58.7
		Lawyer	6	4.8	4.8	63.5
		Person with knowledge of, and current experience in, the areas of research regularly considered by the HREC	39	31.0	31.0	94.4
		Other	7	5.6	5.6	100.0
		Total	126	100.0	100.0	
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

q6. What is your current role on the Animal Ethics Committee (AEC)?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Missing	System	658	100.0		
Mid-career researcher	Missing	System	397	100.0		
Junior researcher	Missing	System	284	100.0		
Research student	Missing	System	149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Chair	8	16.7	16.7	16.7
		Category A member	8	16.7	16.7	33.3
		Category B member	3	6.3	6.3	39.6
		Category C member	9	18.8	18.8	58.3
		Category D member	12	25.0	25.0	83.3
		Person responsible for the routine care of animals	4	8.3	8.3	91.7
		Other	4	8.3	8.3	100.0
				Total	48	100.0

q7a. How many students / staff are you currently a primary supervisor for? (Honours students, including MBBS research years)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent		
Senior researcher	Valid	0	184	28.0	40.1	40.1		
		1	134	20.4	29.2	69.3		
		2	87	13.2	19.0	88.2		
		3	31	4.7	6.8	95.0		
		4	13	2.0	2.8	97.8		
		5	3	.5	.7	98.5		
		6	2	.3	.4	98.9		
		8	2	.3	.4	99.3		
		12	1	.2	.2	99.6		
		14	1	.2	.2	99.8		
		20	1	.2	.2	100.0		
				Total	459	69.8	100.0	
			Missing	System	199	30.2		
				Total	658	100.0		
		Mid-career researcher	Valid	0	90	22.7	33.0	33.0
1	102			25.7	37.4	70.3		
2	47			11.8	17.2	87.5		
3	14			3.5	5.1	92.7		
4	5			1.3	1.8	94.5		
5	6			1.5	2.2	96.7		
6	3			.8	1.1	97.8		
8	2			.5	.7	98.5		
10	2			.5	.7	99.3		
12	1			.3	.4	99.6		
15	1			.3	.4	100.0		
				Total	273	68.8	100.0	
	Missing			System	124	31.2		
				Total	397	100.0		
Junior researcher	Missing			System	284	100.0		
Research student	Missing	System	149	100.0				
Representative of an institution	Missing	System	106	100.0				
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0				

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
A. Your role

q7a. How many students / staff are you currently a primary supervisor for? (Honours students, including MBBS research years)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

q7b. How many students / staff are you currently a primary supervisor for? (Masters students)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Valid	0	187	28.4	43.6	43.6	
		1	149	22.6	34.7	78.3	
		2	56	8.5	13.1	91.4	
		3	16	2.4	3.7	95.1	
		4	10	1.5	2.3	97.4	
		5	6	.9	1.4	98.8	
		6	2	.3	.5	99.3	
		7	1	.2	.2	99.5	
		13	1	.2	.2	99.8	
		125	1	.2	.2	100.0	
		Total		429	65.2	100.0	
		Missing	System				
		Total		229	34.8		
			658	100.0			
Mid-career researcher	Valid	0	111	28.0	43.5	43.5	
		1	86	21.7	33.7	77.3	
		2	38	9.6	14.9	92.2	
		3	10	2.5	3.9	96.1	
		4	3	.8	1.2	97.3	
		6	2	.5	.8	98.0	
		8	1	.3	.4	98.4	
		10	1	.3	.4	98.8	
		12	2	.5	.8	99.6	
		19	1	.3	.4	100.0	
		Total		255	64.2	100.0	
		Missing	System				
		Total		142	35.8		
			397	100.0			
Junior researcher	Missing	System	284	100.0			
Research student	Missing	System	149	100.0			
Representative of an institution	Missing	System	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
A. Your role

q7c. How many students / staff are you currently a primary supervisor for? (Doctoral students)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent		
Senior researcher	Valid	0	40	6.1	6.4	6.4		
		1	103	15.7	16.5	22.8		
		2	117	17.8	18.7	41.5		
		3	97	14.7	15.5	57.0		
		4	80	12.2	12.8	69.8		
		5	74	11.2	11.8	81.6		
		6	52	7.9	8.3	89.9		
		7	14	2.1	2.2	92.2		
		8	14	2.1	2.2	94.4		
		9	10	1.5	1.6	96.0		
		10	5	.8	.8	96.8		
		11	2	.3	.3	97.1		
		12	4	.6	.6	97.8		
		13	2	.3	.3	98.1		
		14	6	.9	1.0	99.0		
		16	1	.2	.2	99.2		
		17	1	.2	.2	99.4		
		18	1	.2	.2	99.5		
		20	1	.2	.2	99.7		
		23	1	.2	.2	99.8		
		25	1	.2	.2	100.0		
			Total		626	95.1	100.0	
			Missing	System	32	4.9		
			Total		658	100.0		
		Mid-career researcher	Valid	0	60	15.1	17.2	17.2
1	77			19.4	22.1	39.3		
2	78			19.6	22.3	61.6		
3	48			12.1	13.8	75.4		
4	31			7.8	8.9	84.2		
5	23			5.8	6.6	90.8		
6	9			2.3	2.6	93.4		
7	4			1.0	1.1	94.6		
8	9			2.3	2.6	97.1		
9	2			.5	.6	97.7		
10	4			1.0	1.1	98.9		
12	4			1.0	1.1	100.0		
	Total				349	87.9	100.0	
	Missing	System	48	12.1				
	Total		397	100.0				
Junior researcher	Missing	System	284	100.0				
Research student	Missing	System	149	100.0				
Representative of an institution	Missing	System	106	100.0				
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0				
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0				

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
A. Your role

q7d. How many students / staff are you currently a primary supervisor for? (Technical assistants)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent		
Senior researcher	Valid	0	195	29.6	62.7	62.7		
		1	63	9.6	20.3	83.0		
		2	33	5.0	10.6	93.6		
		3	7	1.1	2.3	95.8		
		4	7	1.1	2.3	98.1		
		5	1	.2	.3	98.4		
		6	1	.2	.3	98.7		
		8	2	.3	.6	99.4		
		12	1	.2	.3	99.7		
		15	1	.2	.3	100.0		
		Total		311	47.3	100.0		
		Missing	System		347	52.7		
		Total			658	100.0		
		Mid-career researcher	Valid	0	134	33.8	77.0	77.0
				1	27	6.8	15.5	92.5
2	6			1.5	3.4	96.0		
3	6			1.5	3.4	99.4		
4	1			.3	.6	100.0		
Total				174	43.8	100.0		
Missing	System		223	56.2				
Total			397	100.0				
Junior researcher	Missing	System	284	100.0				
Research student	Missing	System	149	100.0				
Representative of an institution	Missing	System	106	100.0				
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0				
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0				

q7e. How many students / staff are you currently a primary supervisor for? (Research assistants)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Valid	0	80	12.2	15.7	15.7	
		1	153	23.3	29.9	45.6	
		2	119	18.1	23.3	68.9	
		3	62	9.4	12.1	81.0	
		4	24	3.6	4.7	85.7	
		5	31	4.7	6.1	91.8	
		6	14	2.1	2.7	94.5	
		7	3	.5	.6	95.1	
		8	8	1.2	1.6	96.7	
		9	1	.2	.2	96.9	
		10	8	1.2	1.6	98.4	
		11	1	.2	.2	98.6	
		12	1	.2	.2	98.8	
		13	1	.2	.2	99.0	
		15	2	.3	.4	99.4	
		24	1	.2	.2	99.6	
		27	1	.2	.2	99.8	
		120	1	.2	.2	100.0	
		Total		511	77.7	100.0	
		Missing	System		147	22.3	
Total			658	100.0			
Mid-career researcher	Valid	0	65	16.4	21.0	21.0	
		1	125	31.5	40.3	61.3	
		2	68	17.1	21.9	83.2	
		3	22	5.5	7.1	90.3	
		4	13	3.3	4.2	94.5	
		5	8	2.0	2.6	97.1	
		6	5	1.3	1.6	98.7	
		8	1	.3	.3	99.0	
		10	2	.5	.6	99.7	
		17	1	.3	.3	100.0	
		Total		310	78.1	100.0	
		Missing	System		87	21.9	
		Total			397	100.0	
Junior researcher	Missing	System	284	100.0			
Research student	Missing	System	149	100.0			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
A. Your role

q7e. How many students / staff are you currently a primary supervisor for? (Research assistants)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

q7f. How many students / staff are you currently a primary supervisor for? (Postdoctoral researchers)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	0	72	10.9	12.7	12.7
		1	136	20.7	24.0	36.7
		2	130	19.8	22.9	59.6
		3	87	13.2	15.3	75.0
		4	58	8.8	10.2	85.2
		5	31	4.7	5.5	90.7
		6	12	1.8	2.1	92.8
		7	11	1.7	1.9	94.7
		8	13	2.0	2.3	97.0
		9	4	.6	.7	97.7
		10	5	.8	.9	98.6
		12	4	.6	.7	99.3
		15	1	.2	.2	99.5
		25	1	.2	.2	99.6
		30	2	.3	.4	100.0
	Total		567	86.2	100.0	
	Missing	System	91	13.8		
	Total		658	100.0		
Mid-career researcher	Valid	0	84	21.2	29.8	29.8
		1	101	25.4	35.8	65.6
		2	55	13.9	19.5	85.1
		3	22	5.5	7.8	92.9
		4	7	1.8	2.5	95.4
		5	5	1.3	1.8	97.2
		6	4	1.0	1.4	98.6
		7	2	.5	.7	99.3
		8	2	.5	.7	100.0
	Total		282	71.0	100.0	
	Missing	System	115	29.0		
	Total		397	100.0		
Junior researcher	Missing	System	284	100.0		
Research student	Missing	System	149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
A. Your role

q7g. How many students / staff are you currently a primary supervisor for? (Clinical researchers)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent		
Senior researcher	Valid	0	171	26.0	51.4	51.4		
		1	50	7.6	15.0	66.4		
		2	40	6.1	12.0	78.4		
		3	18	2.7	5.4	83.8		
		4	23	3.5	6.9	90.7		
		5	14	2.1	4.2	94.9		
		6	2	.3	.6	95.5		
		8	5	.8	1.5	97.0		
		10	4	.6	1.2	98.2		
		12	1	.2	.3	98.5		
		15	2	.3	.6	99.1		
		18	1	.2	.3	99.4		
		30	1	.2	.3	99.7		
		40	1	.2	.3	100.0		
		Total			333	50.6	100.0	
		Missing	System		325	49.4		
Total			658	100.0				
Mid-career researcher	Valid	0	134	33.8	68.7	68.7		
		1	25	6.3	12.8	81.5		
		2	14	3.5	7.2	88.7		
		3	7	1.8	3.6	92.3		
		4	7	1.8	3.6	95.9		
		5	4	1.0	2.1	97.9		
		8	1	.3	.5	98.5		
		10	3	.8	1.5	100.0		
		Total			195	49.1	100.0	
		Missing	System		202	50.9		
Total			397	100.0				
Junior researcher	Missing	System	284	100.0				
Research student	Missing	System	149	100.0				
Representative of an institution	Missing	System	106	100.0				
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0				
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0				

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group

A. Your role

Descriptive Statistics^a

q1. In what capacity are you participating in this survey?		N	Minimum	Maximum	Mean	Std. Deviation
Senior researcher	q7a. How many students / staff are you currently a primary supervisor for? (Honours students, including MBBS research years)	459	0	20	1.18	1.713
	q7b. How many students / staff are you currently a primary supervisor for? (Masters students)	429	0	125	1.25	6.128
	q7c. How many students / staff are you currently a primary supervisor for? (Doctoral students)	626	0	25	3.64	3.045
	q7d. How many students / staff are you currently a primary supervisor for? (Technical assistants)	311	0	15	.75	1.561
	q7e. How many students / staff are you currently a primary supervisor for? (Research assistants)	511	0	120	2.59	5.867
	q7f. How many students / staff are you currently a primary supervisor for? (Postdoctoral researchers)	567	0	30	2.70	2.931
	q7g. How many students / staff are you currently a primary supervisor for? (Clinical researchers)	333	0	40	1.71	3.612
	Valid N (listwise)	235				
	Mid-career researcher	q7a. How many students / staff are you currently a primary supervisor for? (Honours students, including MBBS research years)	273	0	15	1.35
q7b. How many students / staff are you currently a primary supervisor for? (Masters students)		255	0	19	1.09	1.944
q7c. How many students / staff are you currently a primary supervisor for? (Doctoral students)		349	0	12	2.51	2.353
q7d. How many students / staff are you currently a primary supervisor for? (Technical assistants)		174	0	4	.35	.759
q7e. How many students / staff are you currently a primary supervisor for? (Research assistants)		310	0	17	1.59	1.752
q7f. How many students / staff are you currently a primary supervisor for? (Postdoctoral researchers)		282	0	8	1.36	1.465
q7g. How many students / staff are you currently a primary supervisor for? (Clinical researchers)		195	0	10	.82	1.742
Valid N (listwise)		152				

a. No statistics are computed for one or more split files because there are no valid cases.

q8. Approximately how many researchers are there at your institution?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Missing	System	658	100.0		
Mid-career researcher	Missing	System	397	100.0		
Junior researcher	Missing	System	284	100.0		
Research student	Missing	System	149	100.0		
Representative of an institution	Valid	1 to 20	5	4.7	4.8	4.8
		21 to 50	5	4.7	4.8	9.6
		51 to 100	7	6.6	6.7	16.3
		101 to 150	5	4.7	4.8	21.2
		151 to 200	5	4.7	4.8	26.0
		More than 200	77	72.6	74.0	100.0
		Total	104	98.1	100.0	
		Missing	System	2	1.9	
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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 B. Knowledge and attitudes

q9mr. What motivates you in your work as a researcher? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	Improving my knowledge and understanding	258	39.2%
		Making research discoveries for the benefit of society	571	86.8%
		Gaining recognition from my peers	48	7.3%
		Progressing my career	45	6.8%
		Gaining recognition from the public	3	0.5%
		Satisfying my curiosity	214	32.5%
		Working as part of a team	150	22.8%
		Communicating research to others	122	18.5%
		Training the next generation of researchers	395	60.0%
		Earning a salary	88	13.4%
		None of the above	2	0.3%
		Don't know / can't say		
Number of Respondents			658	100.0%
Mid-career researcher	Valid	Improving my knowledge and understanding	196	49.4%
		Making research discoveries for the benefit of society	327	82.4%
		Gaining recognition from my peers	28	7.1%
		Progressing my career	73	18.4%
		Gaining recognition from the public	9	2.3%
		Satisfying my curiosity	123	31.0%
		Working as part of a team	93	23.4%
		Communicating research to others	62	15.6%
		Training the next generation of researchers	151	38.0%
		Earning a salary	71	17.9%
		None of the above	2	0.5%
		Don't know / can't say		
Number of Respondents			397	100.0%
Junior researcher	Valid	Improving my knowledge and understanding	138	48.6%
		Making research discoveries for the benefit of society	234	82.4%
		Gaining recognition from my peers	16	5.6%
		Progressing my career	72	25.4%
		Gaining recognition from the public	6	2.1%
		Satisfying my curiosity	94	33.1%
		Working as part of a team	64	22.5%
		Communicating research to others	71	25.0%
		Training the next generation of researchers	60	21.1%
		Earning a salary	57	20.1%
		None of the above	1	0.4%
		Don't know / can't say		
Number of Respondents			284	100.0%
Research student	Valid	Improving my knowledge and understanding	98	65.8%
		Making research discoveries for the benefit of society	103	69.1%
		Gaining recognition from my peers	10	6.7%
		Progressing my career	71	47.7%
		Gaining recognition from the public		
		Satisfying my curiosity	47	31.5%
		Working as part of a team	29	19.5%
		Communicating research to others	32	21.5%
		Training the next generation of researchers	21	14.1%
		Earning a salary	17	11.4%
		None of the above		
		Don't know / can't say	1	0.7%
Number of Respondents			149	100.0%
Representative of an institution	Valid	Improving my knowledge and understanding		
		Making research discoveries for the benefit of society		
		Gaining recognition from my peers		
		Progressing my career		
		Gaining recognition from the public		
		Satisfying my curiosity		
		Working as part of a team		
		Communicating research to others		
		Training the next generation of researchers		
		Earning a salary		
		None of the above		
		Don't know / can't say		
Number of Respondents				
Current member of a Human Research Ethics Committee (HREC)	Valid	Improving my knowledge and understanding		
		Making research discoveries for the benefit of society		

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B. Knowledge and attitudes

q9mr. What motivates you in your work as a researcher? (Multiple Response)

q1. In what capacity are you participating in this survey?		Frequency	% of respondents
		Gaining recognition from my peers	
		Progressing my career	
		Gaining recognition from the public	
		Satisfying my curiosity	
		Working as part of a team	
		Communicating research to others	
		Training the next generation of researchers	
		Earning a salary	
		None of the above	
		Don't know / can't say	
		Number of Respondents	
Current member of an Animal Ethics Committee (AEC)	Valid	Improving my knowledge and understanding	
		Making research discoveries for the benefit of society	
		Gaining recognition from my peers	
		Progressing my career	
		Gaining recognition from the public	
		Satisfying my curiosity	
		Working as part of a team	
		Communicating research to others	
		Training the next generation of researchers	
		Earning a salary	
		None of the above	
		Don't know / can't say	
		Number of Respondents	

q10mr. Which of the following do you believe are most important for 'high quality research'? (Multiple Response)

q1. In what capacity are you participating in this survey?		Frequency	% of respondents
Senior researcher	Valid	Rigorous	518 78.8%
		Transparent	222 33.8%
		Honest	266 40.5%
		Beneficial to society	328 49.9%
		Respectful	84 12.8%
		Innovative	334 50.8%
		Legal	28 4.3%
		Original	252 38.4%
		Justified	121 18.4%
		Accurate	348 53.0%
		Ethical	424 64.5%
		Open	62 9.4%
		Other	17 2.6%
		Number of Respondents	657 100.0%
Mid-career researcher	Valid	Rigorous	311 78.3%
		Transparent	151 38.0%
		Honest	139 35.0%
		Beneficial to society	234 58.9%
		Respectful	58 14.6%
		Innovative	161 40.6%
		Legal	19 4.8%
		Original	148 37.3%
		Justified	75 18.9%
		Accurate	218 54.9%
		Ethical	252 63.5%
		Open	45 11.3%
		Other	9 2.3%
		Number of Respondents	397 100.0%
Junior researcher	Valid	Rigorous	190 66.9%
		Transparent	142 50.0%
		Honest	83 29.2%
		Beneficial to society	193 68.0%
		Respectful	55 19.4%

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 B. Knowledge and attitudes

q10mr. Which of the following do you believe are most important for 'high quality research'? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents	
Research student	Valid	Innovative	106	37.3%	
		Legal	19	6.7%	
		Original	75	26.4%	
		Justified	71	25.0%	
		Accurate	150	52.8%	
		Ethical	192	67.6%	
		Open	36	12.7%	
		Other	3	1.1%	
		Number of Respondents		284	100.0%
		Rigorous	89	59.7%	
		Transparent	83	55.7%	
		Honest	57	38.3%	
		Beneficial to society	101	67.8%	
		Respectful	28	18.8%	
		Innovative	56	37.6%	
Legal	9	6.0%			
Original	37	24.8%			
Justified	36	24.2%			
Accurate	80	53.7%			
Ethical	111	74.5%			
Open	24	16.1%			
Other	3	2.0%			
Number of Respondents		149	100.0%		
Representative of an institution	Valid	Rigorous	77	73.3%	
		Transparent	51	48.6%	
		Honest	35	33.3%	
		Beneficial to society	56	53.3%	
		Respectful	16	15.2%	
		Innovative	41	39.0%	
		Legal	19	18.1%	
		Original	31	29.5%	
		Justified	32	30.5%	
		Accurate	54	51.4%	
		Ethical	90	85.7%	
		Open	7	6.7%	
		Other	2	1.9%	
		Number of Respondents		105	100.0%
		Current member of a Human Research Ethics Committee (HREC)	Valid	Rigorous	80
Transparent	53			42.1%	
Honest	31			24.6%	
Beneficial to society	80			63.5%	
Respectful	58			46.0%	
Innovative	24			19.0%	
Legal	26			20.6%	
Original	19			15.1%	
Justified	55			43.7%	
Accurate	57			45.2%	
Ethical	114			90.5%	
Open	8			6.3%	
Other	2			1.6%	
Number of Respondents				126	100.0%
Current member of an Animal Ethics Committee (AEC)	Valid			Rigorous	25
		Transparent	18	37.5%	
		Honest	9	18.8%	
		Beneficial to society	18	37.5%	
		Respectful	16	33.3%	
		Innovative	13	27.1%	

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q10mr. Which of the following do you believe are most important for 'high quality research'? (Multiple Response)

q1. In what capacity are you participating in this survey?		Frequency	% of respondents
	Legal	14	29.2%
	Original	9	18.8%
	Justified	34	70.8%
	Accurate	23	47.9%
	Ethical	44	91.7%
	Open	1	2.1%
	Other	2	4.2%
Number of Respondents		48	100.0%

q12. To what extent do you feel that your department / research group prioritises honesty and integrity when researchers propose, perform and report research?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	9	1.4	1.4	1.4
		Somewhat	22	3.3	3.4	4.8
		Moderately	72	10.9	11.2	16.0
		Very much	229	34.8	35.5	51.5
		Completely	313	47.6	48.5	100.0
		Total	645	98.0	100.0	
	Missing	Don't know / can't say	10	1.5		
	System	3	.5			
	Total	13	2.0			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	5	1.3	1.3	1.3
		Somewhat	26	6.5	6.7	8.0
		Moderately	56	14.1	14.5	22.5
		Very much	162	40.8	41.9	64.3
		Completely	138	34.8	35.7	100.0
		Total	387	97.5	100.0	
	Missing	Don't know / can't say	6	1.5		
	System	4	1.0			
	Total	10	2.5			
Total			397	100.0		
Junior researcher	Valid	Not at all	3	1.1	1.1	1.1
		Somewhat	18	6.3	6.5	7.6
		Moderately	39	13.7	14.1	21.7
		Very much	110	38.7	39.7	61.4
		Completely	107	37.7	38.6	100.0
		Total	277	97.5	100.0	
	Missing	Don't know / can't say	4	1.4		
	System	3	1.1			
	Total	7	2.5			
Total			284	100.0		
Research student	Valid	Not at all	1	.7	.7	.7
		Somewhat	8	5.4	5.7	6.4
		Moderately	17	11.4	12.1	18.6
		Very much	50	33.6	35.7	54.3
		Completely	64	43.0	45.7	100.0
		Total	140	94.0	100.0	
	Missing	Don't know / can't say	8	5.4		
	System	1	.7			
	Total	9	6.0			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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 B. Knowledge and attitudes

q13mr. Which of the following do you think matters most to the validity of your research? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	The past work of others	39	6.0%
		Your hypothesis	126	19.3%
		Your experimental design	503	76.9%
		The statistical power of your experiments	303	46.3%
		Avoidance of experimental biases	405	61.9%
		The absence of conflicts of interest	151	23.1%
		Validation via publication in a peer-review journal	239	36.5%
		None of the above	18	2.8%
		Number of Respondents		
Mid-career researcher	Valid	The past work of others	29	7.4%
		Your hypothesis	62	15.8%
		Your experimental design	310	79.1%
		The statistical power of your experiments	154	39.3%
		Avoidance of experimental biases	233	59.4%
		The absence of conflicts of interest	105	26.8%
		Validation via publication in a peer-review journal	129	32.9%
		None of the above	11	2.8%
		Number of Respondents		
Junior researcher	Valid	The past work of others	21	7.5%
		Your hypothesis	48	17.1%
		Your experimental design	237	84.6%
		The statistical power of your experiments	107	38.2%
		Avoidance of experimental biases	164	58.6%
		The absence of conflicts of interest	82	29.3%
		Validation via publication in a peer-review journal	80	28.6%
		None of the above	5	1.8%
		Number of Respondents		
Research student	Valid	The past work of others	22	15.1%
		Your hypothesis	25	17.1%
		Your experimental design	109	74.7%
		The statistical power of your experiments	58	39.7%
		Avoidance of experimental biases	95	65.1%
		The absence of conflicts of interest	43	29.5%
		Validation via publication in a peer-review journal	46	31.5%
		None of the above	2	1.4%
		Number of Respondents		
Representative of an institution	Valid	The past work of others		
		Your hypothesis		
		Your experimental design		
		The statistical power of your experiments		
		Avoidance of experimental biases		
		The absence of conflicts of interest		
		Validation via publication in a peer-review journal		
		None of the above		
		Number of Respondents		
Current member of a Human Research Ethics Committee (HREC)	Valid	The past work of others		
		Your hypothesis		
		Your experimental design		
		The statistical power of your experiments		
		Avoidance of experimental biases		
		The absence of conflicts of interest		
		Validation via publication in a peer-review journal		
		None of the above		
		Number of Respondents		
Current member of an Animal Ethics Committee (AEC)	Valid	The past work of others		
		Your hypothesis		
		Your experimental design		
		The statistical power of your experiments		
		Avoidance of experimental biases		
		The absence of conflicts of interest		
		Validation via publication in a peer-review journal		
		None of the above		
		Number of Respondents		

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B. Knowledge and attitudes

q14a. Failure to build on what is already known from previous research

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	16	2.4	2.5	2.5
		A little	124	18.8	19.1	21.5
		A fair amount	175	26.6	26.9	48.5
		A lot	191	29.0	29.4	77.8
		To a great extent	144	21.9	22.2	100.0
		Total	650	98.8	100.0	
	Missing	Don't know / can't say	3	.5		
		System	5	.8		
Total		8	1.2			
Total		658	100.0			
Mid-career researcher	Valid	Not at all	12	3.0	3.1	3.1
		A little	84	21.2	21.8	24.9
		A fair amount	102	25.7	26.4	51.3
		A lot	119	30.0	30.8	82.1
		To a great extent	69	17.4	17.9	100.0
		Total	386	97.2	100.0	
	Missing	Don't know / can't say	3	.8		
		System	8	2.0		
Total		11	2.8			
Total		397	100.0			
Junior researcher	Valid	Not at all	11	3.9	4.0	4.0
		A little	61	21.5	22.3	26.4
		A fair amount	70	24.6	25.6	52.0
		A lot	72	25.4	26.4	78.4
		To a great extent	59	20.8	21.6	100.0
		Total	273	96.1	100.0	
	Missing	Don't know / can't say	5	1.8		
		System	6	2.1		
Total		11	3.9			
Total		284	100.0			
Research student	Valid	Not at all	5	3.4	3.5	3.5
		A little	32	21.5	22.4	25.9
		A fair amount	48	32.2	33.6	59.4
		A lot	30	20.1	21.0	80.4
		To a great extent	28	18.8	19.6	100.0
		Total	143	96.0	100.0	
	Missing	Don't know / can't say	2	1.3		
		System	4	2.7		
Total		6	4.0			
Total		149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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 B. Knowledge and attitudes

q14b. Conduct of unnecessary research that might have been avoided if all negative or neutral studies were routinely published

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	7	1.1	1.1	1.1
		A little	107	16.3	16.8	17.9
		A fair amount	191	29.0	29.9	47.8
		A lot	190	28.9	29.8	77.6
		To a great extent	143	21.7	22.4	100.0
		Total	638	97.0	100.0	
	Missing	Don't know / can't say	15	2.3		
		System	5	.8		
		Total	20	3.0		
	Total		658	100.0		
Mid-career researcher	Valid	Not at all	5	1.3	1.3	1.3
		A little	57	14.4	15.0	16.4
		A fair amount	103	25.9	27.2	43.5
		A lot	114	28.7	30.1	73.6
		To a great extent	100	25.2	26.4	100.0
		Total	379	95.5	100.0	
	Missing	Don't know / can't say	9	2.3		
		System	9	2.3		
		Total	18	4.5		
	Total		397	100.0		
Junior researcher	Valid	Not at all	2	.7	.7	.7
		A little	26	9.2	9.6	10.4
		A fair amount	63	22.2	23.3	33.7
		A lot	89	31.3	33.0	66.7
		To a great extent	90	31.7	33.3	100.0
		Total	270	95.1	100.0	
	Missing	Don't know / can't say	8	2.8		
		System	6	2.1		
		Total	14	4.9		
	Total		284	100.0		
Research student	Valid	Not at all	3	2.0	2.2	2.2
		A little	11	7.4	7.9	10.1
		A fair amount	28	18.8	20.1	30.2
		A lot	52	34.9	37.4	67.6
		To a great extent	45	30.2	32.4	100.0
		Total	139	93.3	100.0	
	Missing	Don't know / can't say	6	4.0		
		System	4	2.7		
		Total	10	6.7		
	Total		149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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 B. Knowledge and attitudes

q14c. Problems for researchers when previous experiments / studies are unreliable because of biases or inadequate sample size

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	4	.6	.6	.6
		A little	116	17.6	18.1	18.8
		A fair amount	209	31.8	32.7	51.4
		A lot	197	29.9	30.8	82.2
		To a great extent	114	17.3	17.8	100.0
	Missing	Don't know / can't say	640	97.3	100.0	
		System	12	1.8		
		Total	6	.9		
	Total		18	2.7		
	Total			658	100.0	
Mid-career researcher	Valid	Not at all	4	1.0	1.0	1.0
		A little	65	16.4	17.0	18.0
		A fair amount	119	30.0	31.1	49.1
		A lot	127	32.0	33.2	82.2
		To a great extent	68	17.1	17.8	100.0
	Missing	Don't know / can't say	383	96.5	100.0	
		System	6	1.5		
		Total	8	2.0		
	Total		14	3.5		
	Total			397	100.0	
Junior researcher	Valid	Not at all	1	.4	.4	.4
		A little	47	16.5	17.5	17.9
		A fair amount	88	31.0	32.8	50.7
		A lot	90	31.7	33.6	84.3
		To a great extent	42	14.8	15.7	100.0
	Missing	Don't know / can't say	268	94.4	100.0	
		System	10	3.5		
		Total	6	2.1		
	Total		16	5.6		
	Total			284	100.0	
Research student	Valid	Not at all	1	.7	.7	.7
		A little	21	14.1	15.0	15.7
		A fair amount	50	33.6	35.7	51.4
		A lot	43	28.9	30.7	82.1
		To a great extent	25	16.8	17.9	100.0
	Missing	Don't know / can't say	140	94.0	100.0	
		System	4	2.7		
		Total	5	3.4		
	Total		9	6.0		
	Total			149	100.0	
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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 B. Knowledge and attitudes

q14d. Time wasted when essential information on study methods or materials are poorly described or inaccessible

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	7	1.1	1.1	1.1
		A little	161	24.5	24.8	25.9
		A fair amount	212	32.2	32.7	58.6
		A lot	168	25.5	25.9	84.6
		To a great extent	100	15.2	15.4	100.0
		Total	648	98.5	100.0	
	Missing	Don't know / can't say	6	.9		
	System	4	.6			
	Total	10	1.5			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	4	1.0	1.0	1.0
		A little	100	25.2	26.1	27.2
		A fair amount	109	27.5	28.5	55.6
		A lot	108	27.2	28.2	83.8
		To a great extent	62	15.6	16.2	100.0
		Total	383	96.5	100.0	
	Missing	Don't know / can't say	5	1.3		
	System	9	2.3			
	Total	14	3.5			
Total			397	100.0		
Junior researcher	Valid	Not at all	3	1.1	1.1	1.1
		A little	51	18.0	18.8	19.9
		A fair amount	87	30.6	32.0	51.8
		A lot	76	26.8	27.9	79.8
		To a great extent	55	19.4	20.2	100.0
		Total	272	95.8	100.0	
	Missing	Don't know / can't say	6	2.1		
	System	6	2.1			
	Total	12	4.2			
Total			284	100.0		
Research student	Valid	Not at all	1	.7	.7	.7
		A little	20	13.4	14.3	15.0
		A fair amount	37	24.8	26.4	41.4
		A lot	54	36.2	38.6	80.0
		To a great extent	28	18.8	20.0	100.0
		Total	140	94.0	100.0	
	Missing	Don't know / can't say	4	2.7		
	System	5	3.4			
	Total	9	6.0			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 B. Knowledge and attitudes

q14e. Failure to consider whether and how research results might have value to downstream users (other researchers, clinicians, etc)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	54	8.2	8.5	8.5
		A little	202	30.7	31.6	40.1
		A fair amount	178	27.1	27.9	67.9
		A lot	117	17.8	18.3	86.2
		To a great extent	88	13.4	13.8	100.0
		Total	639	97.1	100.0	
	Missing	Don't know / can't say	12	1.8		
		System	7	1.1		
		Total	19	2.9		
	Total			658	100.0	
Mid-career researcher	Valid	Not at all	19	4.8	5.0	5.0
		A little	118	29.7	31.3	36.3
		A fair amount	99	24.9	26.3	62.6
		A lot	83	20.9	22.0	84.6
		To a great extent	58	14.6	15.4	100.0
		Total	377	95.0	100.0	
	Missing	Don't know / can't say	11	2.8		
		System	9	2.3		
		Total	20	5.0		
	Total			397	100.0	
Junior researcher	Valid	Not at all	14	4.9	5.2	5.2
		A little	64	22.5	23.6	28.8
		A fair amount	71	25.0	26.2	55.0
		A lot	68	23.9	25.1	80.1
		To a great extent	54	19.0	19.9	100.0
		Total	271	95.4	100.0	
	Missing	Don't know / can't say	7	2.5		
		System	6	2.1		
		Total	13	4.6		
	Total			284	100.0	
Research student	Valid	Not at all	4	2.7	2.8	2.8
		A little	31	20.8	22.0	24.8
		A fair amount	27	18.1	19.1	44.0
		A lot	40	26.8	28.4	72.3
		To a great extent	39	26.2	27.7	100.0
		Total	141	94.6	100.0	
	Missing	Don't know / can't say	3	2.0		
		System	5	3.4		
		Total	8	5.4		
	Total			149	100.0	
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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B. Knowledge and attitudes

q15. How important do you think reproducibility is to research?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Somewhat important	26	4.0	4.0	4.0
		Quite important	62	9.4	9.6	13.6
		Very important	561	85.3	86.4	100.0
		Total	649	98.6	100.0	
	Missing	Don't know / can't say	1	.2		
		System	8	1.2		
Total			9	1.4		
Total			658	100.0		
Mid-career researcher	Valid	Not at all important	1	.3	.3	.3
		Not that important	4	1.0	1.1	1.3
		Somewhat important	25	6.3	6.6	8.0
		Quite important	60	15.1	15.9	23.9
		Very important	287	72.3	76.1	100.0
	Total	377	95.0	100.0		
Missing	System	20	5.0			
Total			397	100.0		
Junior researcher	Valid	Not at all important	1	.4	.4	.4
		Not that important	2	.7	.8	1.1
		Somewhat important	12	4.2	4.5	5.6
		Quite important	56	19.7	21.1	26.7
		Very important	195	68.7	73.3	100.0
	Total	266	93.7	100.0		
Missing	System	18	6.3			
Total			284	100.0		
Research student	Valid	Not at all important	1	.7	.7	.7
		Somewhat important	14	9.4	10.2	10.9
		Quite important	26	17.4	19.0	29.9
		Very important	96	64.4	70.1	100.0
		Total	137	91.9	100.0	
	Missing	Don't know / can't say	1	.7		
System		11	7.4			
Total			12	8.1		
Total			149	100.0		
Representative of an institution	Valid	Somewhat important	6	5.7	6.3	6.3
		Quite important	15	14.2	15.6	21.9
		Very important	75	70.8	78.1	100.0
		Total	96	90.6	100.0	
	Missing	Don't know / can't say	1	.9		
		System	9	8.5		
Total			10	9.4		
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Not at all important	1	.8	.9	.9
		Not that important	3	2.4	2.6	3.4
		Somewhat important	12	9.5	10.3	13.7
		Quite important	14	11.1	12.0	25.6
		Very important	87	69.0	74.4	100.0
	Total	117	92.9	100.0		
Missing	Don't know / can't say	6	4.8			
System		3	2.4			
Total			9	7.1		
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Somewhat important	2	4.2	4.2	4.2
		Quite important	6	12.5	12.5	16.7
		Very important	40	83.3	83.3	100.0
		Total	48	100.0	100.0	

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 B. Knowledge and attitudes

q16mr. Before today, had you heard of the term 'crisis of reproducibility' in relation to issues in research? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	Yes, from the mainstream media	196	30.2%
		Yes, from research journals	332	51.1%
		Yes, from discussions at conferences	248	38.2%
		Yes, from discussions with my colleagues	335	51.5%
		Yes, from online sources (e.g. social media, podcasts, blogs)	17	2.6%
		Yes, from elsewhere	28	4.3%
		No	130	20.0%
		Don't know / can't say	8	1.2%
	Number of Respondents			650
Mid-career researcher	Valid	Yes, from the mainstream media	121	32.1%
		Yes, from research journals	185	49.1%
		Yes, from discussions at conferences	142	37.7%
		Yes, from discussions with my colleagues	193	51.2%
		Yes, from online sources (e.g. social media, podcasts, blogs)	9	2.4%
		Yes, from elsewhere	11	2.9%
		No	96	25.5%
	Don't know / can't say	4	1.1%	
Number of Respondents			377	100.0%
Junior researcher	Valid	Yes, from the mainstream media	81	30.5%
		Yes, from research journals	109	41.0%
		Yes, from discussions at conferences	93	35.0%
		Yes, from discussions with my colleagues	142	53.4%
		Yes, from online sources (e.g. social media, podcasts, blogs)	9	3.4%
		Yes, from elsewhere	11	4.1%
		No	65	24.4%
	Don't know / can't say	6	2.3%	
Number of Respondents			266	100.0%
Research student	Valid	Yes, from the mainstream media	21	15.3%
		Yes, from research journals	32	23.4%
		Yes, from discussions at conferences	28	20.4%
		Yes, from discussions with my colleagues	54	39.4%
		Yes, from online sources (e.g. social media, podcasts, blogs)	3	2.2%
		Yes, from elsewhere	7	5.1%
		No	54	39.4%
	Don't know / can't say	6	4.4%	
Number of Respondents			137	100.0%
Representative of an institution	Valid	Yes, from the mainstream media	32	33.3%
		Yes, from research journals	41	42.7%
		Yes, from discussions at conferences	38	39.6%
		Yes, from discussions with my colleagues	48	50.0%
		Yes, from online sources (e.g. social media, podcasts, blogs)	2	2.1%
		Yes, from elsewhere	5	5.2%
		No	16	16.7%
	Don't know / can't say			
Number of Respondents			96	100.0%
Current member of a Human Research Ethics Committee (HREC)	Valid	Yes, from the mainstream media	19	15.3%
		Yes, from research journals	31	25.0%
		Yes, from discussions at conferences	28	22.6%
		Yes, from discussions with my colleagues	37	29.8%
		Yes, from online sources (e.g. social media, podcasts, blogs)	1	0.8%
		Yes, from elsewhere	5	4.0%
		No	54	43.5%
	Don't know / can't say	3	2.4%	
Number of Respondents			124	100.0%
Current member of an Animal Ethics Committee (AEC)	Valid	Yes, from the mainstream media	8	16.7%
		Yes, from research journals	9	18.8%
		Yes, from discussions at conferences	12	25.0%
		Yes, from discussions with my colleagues	8	16.7%
		Yes, from online sources (e.g. social media, podcasts, blogs)		
		Yes, from elsewhere	2	4.2%
		No	21	43.8%
	Don't know / can't say	3	6.3%	
Number of Respondents			48	100.0%

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B. Knowledge and attitudes

q17. Which of the following statements do you feel is most accurate when thinking about reproducibility in research?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	There is no crisis of reproducibility	28	4.3	5.2	5.2
		There is a slight crisis of reproducibility	210	31.9	38.7	43.8
		There is a significant crisis of reproducibility	305	46.4	56.2	100.0
		Total	543	82.5	100.0	
	Missing	Don't know / can't say	105	16.0		
		System	10	1.5		
Total		115	17.5			
Total		658	100.0			
Mid-career researcher	Valid	There is no crisis of reproducibility	11	2.8	3.6	3.6
		There is a slight crisis of reproducibility	121	30.5	39.8	43.4
		There is a significant crisis of reproducibility	172	43.3	56.6	100.0
		Total	304	76.6	100.0	
	Missing	Don't know / can't say	73	18.4		
		System	20	5.0		
Total		93	23.4			
Total		397	100.0			
Junior researcher	Valid	There is no crisis of reproducibility	4	1.4	2.0	2.0
		There is a slight crisis of reproducibility	76	26.8	37.8	39.8
		There is a significant crisis of reproducibility	121	42.6	60.2	100.0
		Total	201	70.8	100.0	
	Missing	Don't know / can't say	64	22.5		
		System	19	6.7		
Total		83	29.2			
Total		284	100.0			
Research student	Valid	There is no crisis of reproducibility	3	2.0	3.4	3.4
		There is a slight crisis of reproducibility	39	26.2	43.8	47.2
		There is a significant crisis of reproducibility	47	31.5	52.8	100.0
		Total	89	59.7	100.0	
	Missing	Don't know / can't say	47	31.5		
		System	13	8.7		
Total		60	40.3			
Total		149	100.0			
Representative of an institution	Valid	There is no crisis of reproducibility	2	1.9	2.8	2.8
		There is a slight crisis of reproducibility	32	30.2	44.4	47.2
		There is a significant crisis of reproducibility	38	35.8	52.8	100.0
		Total	72	67.9	100.0	
	Missing	Don't know / can't say	23	21.7		
		System	11	10.4		
Total		34	32.1			
Total		106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	There is no crisis of reproducibility	5	4.0	7.9	7.9
		There is a slight crisis of reproducibility	32	25.4	50.8	58.7
		There is a significant crisis of reproducibility	26	20.6	41.3	100.0
		Total	63	50.0	100.0	
	Missing	Don't know / can't say	61	48.4		
		System	2	1.6		
Total		63	50.0			
Total		126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	There is a slight crisis of reproducibility	10	20.8	34.5	34.5
		There is a significant crisis of reproducibility	19	39.6	65.5	100.0
		Total	29	60.4	100.0	
	Missing	Don't know / can't say	18	37.5		
		System	1	2.1		
		Total	19	39.6		
Total		48	100.0			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 B. Knowledge and attitudes

q18a. I think that a failure to reproduce a result most often means that the original finding is wrong

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	34	5.2	5.4	5.4
		Disagree	217	33.0	34.6	40.0
		Neither agree nor disagree	232	35.3	37.0	77.0
		Agree	130	19.8	20.7	97.8
		Strongly agree	14	2.1	2.2	100.0
		Total	627	95.3	100.0	
	Missing	Don't know / can't say	17	2.6		
	System	14	2.1			
	Total	31	4.7			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	25	6.3	6.9	6.9
		Disagree	131	33.0	36.3	43.2
		Neither agree nor disagree	144	36.3	39.9	83.1
		Agree	53	13.4	14.7	97.8
		Strongly agree	8	2.0	2.2	100.0
		Total	361	90.9	100.0	
	Missing	Don't know / can't say	13	3.3		
	System	23	5.8			
	Total	36	9.1			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	18	6.3	7.0	7.0
		Disagree	112	39.4	43.6	50.6
		Neither agree nor disagree	95	33.5	37.0	87.5
		Agree	29	10.2	11.3	98.8
		Strongly agree	3	1.1	1.2	100.0
		Total	257	90.5	100.0	
	Missing	Don't know / can't say	8	2.8		
	System	19	6.7			
	Total	27	9.5			
Total			284	100.0		
Research student	Valid	Strongly disagree	8	5.4	6.2	6.2
		Disagree	51	34.2	39.2	45.4
		Neither agree nor disagree	59	39.6	45.4	90.8
		Agree	12	8.1	9.2	100.0
		Total	130	87.2	100.0	
		Missing	Don't know / can't say	7	4.7	
		System	12	8.1		
	Total	19	12.8			
Total			149	100.0		
Representative of an institution	Valid	Strongly disagree	7	6.6	8.0	8.0
		Disagree	28	26.4	31.8	39.8
		Neither agree nor disagree	33	31.1	37.5	77.3
		Agree	17	16.0	19.3	96.6
		Strongly agree	3	2.8	3.4	100.0
		Total	88	83.0	100.0	
	Missing	Don't know / can't say	5	4.7		
	System	13	12.3			
	Total	18	17.0			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Strongly disagree	4	3.2	3.5	3.5
		Disagree	38	30.2	33.0	36.5
		Neither agree nor disagree	49	38.9	42.6	79.1
		Agree	21	16.7	18.3	97.4
		Strongly agree	3	2.4	2.6	100.0
		Total	115	91.3	100.0	
	Missing	Don't know / can't say	7	5.6		
	System	4	3.2			
	Total	11	8.7			
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Strongly disagree	3	6.3	7.0	7.0
		Disagree	12	25.0	27.9	34.9
		Neither agree nor disagree	19	39.6	44.2	79.1
		Agree	9	18.8	20.9	100.0
		Total	43	89.6	100.0	
		Missing	Don't know / can't say	4	8.3	
		System	1	2.1		
	Total	5	10.4			
Total			48	100.0		

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B. Knowledge and attitudes

q18b. I think that a failure to reproduce a result rarely detracts from the validity of the original finding

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	68	10.3	11.0	11.0
		Disagree	311	47.3	50.2	61.2
		Neither agree nor disagree	151	22.9	24.4	85.6
		Agree	83	12.6	13.4	99.0
		Strongly agree	6	.9	1.0	100.0
		Total	619	94.1	100.0	
	Missing	Don't know / can't say	23	3.5		
	System	16	2.4			
	Total	39	5.9			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	25	6.3	6.9	6.9
		Disagree	167	42.1	46.4	53.3
		Neither agree nor disagree	100	25.2	27.8	81.1
		Agree	58	14.6	16.1	97.2
		Strongly agree	10	2.5	2.8	100.0
		Total	360	90.7	100.0	
	Missing	Don't know / can't say	14	3.5		
	System	23	5.8			
	Total	37	9.3			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	10	3.5	3.9	3.9
		Disagree	124	43.7	48.6	52.5
		Neither agree nor disagree	71	25.0	27.8	80.4
		Agree	45	15.8	17.6	98.0
		Strongly agree	5	1.8	2.0	100.0
		Total	255	89.8	100.0	
	Missing	Don't know / can't say	9	3.2		
	System	20	7.0			
	Total	29	10.2			
Total			284	100.0		
Research student	Valid	Strongly disagree	4	2.7	3.2	3.2
		Disagree	56	37.6	44.8	48.0
		Neither agree nor disagree	33	22.1	26.4	74.4
		Agree	30	20.1	24.0	98.4
		Strongly agree	2	1.3	1.6	100.0
		Total	125	83.9	100.0	
	Missing	Don't know / can't say	12	8.1		
	System	12	8.1			
	Total	24	16.1			
Total			149	100.0		
Representative of an institution	Valid	Strongly disagree	8	7.5	9.0	9.0
		Disagree	48	45.3	53.9	62.9
		Neither agree nor disagree	19	17.9	21.3	84.3
		Agree	12	11.3	13.5	97.8
		Strongly agree	2	1.9	2.2	100.0
		Total	89	84.0	100.0	
	Missing	Don't know / can't say	5	4.7		
	System	12	11.3			
	Total	17	16.0			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Strongly disagree	6	4.8	5.4	5.4
		Disagree	58	46.0	51.8	57.1
		Neither agree nor disagree	23	18.3	20.5	77.7
		Agree	21	16.7	18.8	96.4
		Strongly agree	4	3.2	3.6	100.0
		Total	112	88.9	100.0	
	Missing	Don't know / can't say	9	7.1		
	System	5	4.0			
	Total	14	11.1			
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Strongly disagree	6	12.5	14.6	14.6
		Disagree	20	41.7	48.8	63.4
		Neither agree nor disagree	7	14.6	17.1	80.5
		Agree	7	14.6	17.1	97.6
		Strongly agree	1	2.1	2.4	100.0
		Total	41	85.4	100.0	
	Missing	Don't know / can't say	6	12.5		
	System	1	2.1			
	Total	7	14.6			
Total			48	100.0		

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 B. Knowledge and attitudes

q18c. I think that the failure to reproduce research is a major problem in my field

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	27	4.1	4.3	4.3
		Disagree	167	25.4	26.6	30.9
		Neither agree nor disagree	139	21.1	22.2	53.1
		Agree	236	35.9	37.6	90.7
		Strongly agree	58	8.8	9.3	100.0
		Total	627	95.3	100.0	
	Missing	Don't know / can't say	18	2.7		
	System	13	2.0			
	Total	31	4.7			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	13	3.3	3.6	3.6
		Disagree	84	21.2	23.1	26.6
		Neither agree nor disagree	111	28.0	30.5	57.1
		Agree	120	30.2	33.0	90.1
		Strongly agree	36	9.1	9.9	100.0
		Total	364	91.7	100.0	
	Missing	Don't know / can't say	10	2.5		
	System	23	5.8			
	Total	33	8.3			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	8	2.8	3.1	3.1
		Disagree	57	20.1	22.4	25.6
		Neither agree nor disagree	68	23.9	26.8	52.4
		Agree	96	33.8	37.8	90.2
		Strongly agree	25	8.8	9.8	100.0
		Total	254	89.4	100.0	
	Missing	Don't know / can't say	10	3.5		
	System	20	7.0			
	Total	30	10.6			
Total			284	100.0		
Research student	Valid	Strongly disagree	6	4.0	4.9	4.9
		Disagree	32	21.5	26.0	30.9
		Neither agree nor disagree	37	24.8	30.1	61.0
		Agree	43	28.9	35.0	95.9
		Strongly agree	5	3.4	4.1	100.0
		Total	123	82.6	100.0	
	Missing	Don't know / can't say	14	9.4		
	System	12	8.1			
	Total	26	17.4			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 B. Knowledge and attitudes

q18d. I think that the failure to reproduce research is a major problem for all fields

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	10	1.5	1.8	1.8
		Disagree	100	15.2	17.5	19.3
		Neither agree nor disagree	149	22.6	26.1	45.4
		Agree	248	37.7	43.4	88.8
		Strongly agree	64	9.7	11.2	100.0
		Total	571	86.8	100.0	
	Missing	Don't know / can't say	72	10.9		
	System	15	2.3			
	Total	87	13.2			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	11	2.8	3.3	3.3
		Disagree	46	11.6	13.6	16.9
		Neither agree nor disagree	104	26.2	30.9	47.8
		Agree	139	35.0	41.2	89.0
		Strongly agree	37	9.3	11.0	100.0
		Total	337	84.9	100.0	
	Missing	Don't know / can't say	38	9.6		
	System	22	5.5			
	Total	60	15.1			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	6	2.1	2.7	2.7
		Disagree	27	9.5	12.0	14.7
		Neither agree nor disagree	68	23.9	30.2	44.9
		Agree	96	33.8	42.7	87.6
		Strongly agree	28	9.9	12.4	100.0
		Total	225	79.2	100.0	
	Missing	Don't know / can't say	39	13.7		
	System	20	7.0			
	Total	59	20.8			
Total			284	100.0		
Research student	Valid	Strongly disagree	2	1.3	1.8	1.8
		Disagree	19	12.8	16.7	18.4
		Neither agree nor disagree	30	20.1	26.3	44.7
		Agree	58	38.9	50.9	95.6
		Strongly agree	5	3.4	4.4	100.0
		Total	114	76.5	100.0	
	Missing	Don't know / can't say	22	14.8		
	System	13	8.7			
	Total	35	23.5			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19a. Pressure to publish for career advancement

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	15	2.3	2.5	2.5
		Slightly	83	12.6	13.8	16.3
		Moderately	149	22.6	24.7	41.0
		Considerably	205	31.2	34.0	75.0
		To a great extent	151	22.9	25.0	100.0
	Total	603	91.6	100.0		
	Missing	Don't know / can't say	39	5.9		
	System	16	2.4			
	Total	55	8.4			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	11	2.8	3.1	3.1
		Slightly	31	7.8	8.8	12.0
		Moderately	84	21.2	23.9	35.9
		Considerably	112	28.2	31.9	67.8
		To a great extent	113	28.5	32.2	100.0
	Total	351	88.4	100.0		
	Missing	Don't know / can't say	23	5.8		
	System	23	5.8			
	Total	46	11.6			
Total			397	100.0		
Junior researcher	Valid	Not at all	7	2.5	3.0	3.0
		Slightly	28	9.9	12.0	15.0
		Moderately	41	14.4	17.5	32.5
		Considerably	80	28.2	34.2	66.7
		To a great extent	78	27.5	33.3	100.0
	Total	234	82.4	100.0		
	Missing	Don't know / can't say	25	8.8		
	System	25	8.8			
	Total	50	17.6			
Total			284	100.0		
Research student	Valid	Not at all	1	.7	.9	.9
		Slightly	12	8.1	10.3	11.2
		Moderately	32	21.5	27.6	38.8
		Considerably	34	22.8	29.3	68.1
		To a great extent	37	24.8	31.9	100.0
	Total	116	77.9	100.0		
	Missing	Don't know / can't say	18	12.1		
	System	15	10.1			
	Total	33	22.1			
Total			149	100.0		
Representative of an institution	Valid	Not at all	3	2.8	3.7	3.7
		Slightly	10	9.4	12.2	15.9
		Moderately	22	20.8	26.8	42.7
		Considerably	30	28.3	36.6	79.3
		To a great extent	17	16.0	20.7	100.0
	Total	82	77.4	100.0		
	Missing	Don't know / can't say	10	9.4		
	System	14	13.2			
	Total	24	22.6			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19b. Insufficient oversight / mentoring by principal investigator for the research group (e.g. reviewing raw data)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	16	2.4	2.7	2.7
		Slightly	126	19.1	21.1	23.7
		Moderately	215	32.7	36.0	59.7
		Considerably	178	27.1	29.8	89.5
		To a great extent	63	9.6	10.5	100.0
		Total	598	90.9	100.0	
	Missing	Don't know / can't say	42	6.4		
	System	18	2.7			
	Total	60	9.1			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	12	3.0	3.5	3.5
		Slightly	59	14.9	17.0	20.5
		Moderately	110	27.7	31.7	52.2
		Considerably	120	30.2	34.6	86.7
		To a great extent	46	11.6	13.3	100.0
		Total	347	87.4	100.0	
	Missing	Don't know / can't say	26	6.5		
	System	24	6.0			
	Total	50	12.6			
Total			397	100.0		
Junior researcher	Valid	Not at all	4	1.4	1.7	1.7
		Slightly	34	12.0	14.7	16.4
		Moderately	94	33.1	40.5	56.9
		Considerably	71	25.0	30.6	87.5
		To a great extent	29	10.2	12.5	100.0
		Total	232	81.7	100.0	
	Missing	Don't know / can't say	28	9.9		
	System	24	8.5			
	Total	52	18.3			
Total			284	100.0		
Research student	Valid	Not at all	4	2.7	3.4	3.4
		Slightly	14	9.4	11.8	15.1
		Moderately	41	27.5	34.5	49.6
		Considerably	43	28.9	36.1	85.7
		To a great extent	17	11.4	14.3	100.0
		Total	119	79.9	100.0	
	Missing	Don't know / can't say	14	9.4		
	System	16	10.7			
	Total	30	20.1			
Total			149	100.0		
Representative of an institution	Valid	Not at all	3	2.8	3.5	3.5
		Slightly	9	8.5	10.6	14.1
		Moderately	29	27.4	34.1	48.2
		Considerably	34	32.1	40.0	88.2
		To a great extent	10	9.4	11.8	100.0
		Total	85	80.2	100.0	
	Missing	Don't know / can't say	6	5.7		
	System	15	14.2			
	Total	21	19.8			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19c. Insufficient peer review of grant applications

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	150	22.8	25.1	25.1
		Slightly	224	34.0	37.5	62.5
		Moderately	134	20.4	22.4	84.9
		Considerably	58	8.8	9.7	94.6
		To a great extent	32	4.9	5.4	100.0
		Total	598	90.9	100.0	
	Missing	Don't know / can't say	41	6.2		
	System	19	2.9			
	Total	60	9.1			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	84	21.2	23.9	23.9
		Slightly	135	34.0	38.5	62.4
		Moderately	89	22.4	25.4	87.7
		Considerably	28	7.1	8.0	95.7
		To a great extent	15	3.8	4.3	100.0
		Total	351	88.4	100.0	
	Missing	Don't know / can't say	24	6.0		
	System	22	5.5			
	Total	46	11.6			
Total			397	100.0		
Junior researcher	Valid	Not at all	48	16.9	22.0	22.0
		Slightly	78	27.5	35.8	57.8
		Moderately	53	18.7	24.3	82.1
		Considerably	28	9.9	12.8	95.0
		To a great extent	11	3.9	5.0	100.0
		Total	218	76.8	100.0	
	Missing	Don't know / can't say	43	15.1		
	System	23	8.1			
	Total	66	23.2			
Total			284	100.0		
Research student	Valid	Not at all	13	8.7	13.4	13.4
		Slightly	27	18.1	27.8	41.2
		Moderately	36	24.2	37.1	78.4
		Considerably	15	10.1	15.5	93.8
		To a great extent	6	4.0	6.2	100.0
		Total	97	65.1	100.0	
	Missing	Don't know / can't say	37	24.8		
	System	15	10.1			
	Total	52	34.9			
Total			149	100.0		
Representative of an institution	Valid	Not at all	20	18.9	24.4	24.4
		Slightly	32	30.2	39.0	63.4
		Moderately	17	16.0	20.7	84.1
		Considerably	11	10.4	13.4	97.6
		To a great extent	2	1.9	2.4	100.0
		Total	82	77.4	100.0	
	Missing	Don't know / can't say	9	8.5		
	System	15	14.2			
	Total	24	22.6			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19d. Insufficient peer review of research publications

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	42	6.4	6.9	6.9
		Slightly	167	25.4	27.4	34.3
		Moderately	191	29.0	31.3	65.6
		Considerably	161	24.5	26.4	92.0
		To a great extent	49	7.4	8.0	100.0
		Total	610	92.7	100.0	
	Missing	Don't know / can't say	29	4.4		
	System	19	2.9			
	Total	48	7.3			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	32	8.1	8.9	8.9
		Slightly	103	25.9	28.7	37.6
		Moderately	117	29.5	32.6	70.2
		Considerably	81	20.4	22.6	92.8
		To a great extent	26	6.5	7.2	100.0
		Total	359	90.4	100.0	
	Missing	Don't know / can't say	16	4.0		
	System	22	5.5			
	Total	38	9.6			
Total			397	100.0		
Junior researcher	Valid	Not at all	33	11.6	14.1	14.1
		Slightly	66	23.2	28.2	42.3
		Moderately	68	23.9	29.1	71.4
		Considerably	49	17.3	20.9	92.3
		To a great extent	18	6.3	7.7	100.0
		Total	234	82.4	100.0	
	Missing	Don't know / can't say	27	9.5		
	System	23	8.1			
	Total	50	17.6			
Total			284	100.0		
Research student	Valid	Not at all	10	6.7	9.1	9.1
		Slightly	25	16.8	22.7	31.8
		Moderately	42	28.2	38.2	70.0
		Considerably	22	14.8	20.0	90.0
		To a great extent	11	7.4	10.0	100.0
		Total	110	73.8	100.0	
	Missing	Don't know / can't say	22	14.8		
	System	17	11.4			
	Total	39	26.2			
Total			149	100.0		
Representative of an institution	Valid	Not at all	7	6.6	8.6	8.6
		Slightly	27	25.5	33.3	42.0
		Moderately	33	31.1	40.7	82.7
		Considerably	9	8.5	11.1	93.8
		To a great extent	5	4.7	6.2	100.0
		Total	81	76.4	100.0	
	Missing	Don't know / can't say	10	9.4		
	System	15	14.2			
	Total	25	23.6			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19e. Selective reporting of results

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	5	.8	.8	.8
		Slightly	40	6.1	6.5	7.3
		Moderately	140	21.3	22.7	29.9
		Considerably	265	40.3	42.9	72.8
		To a great extent	168	25.5	27.2	100.0
	Missing	Don't know / can't say	21	3.2		
		System	19	2.9		
		Total	40	6.1		
	Total		658	100.0		
	Mid-career researcher	Valid	Not at all	2	.5	.6
Slightly			22	5.5	6.1	6.7
Moderately			76	19.1	21.2	27.9
Considerably			148	37.3	41.2	69.1
To a great extent			111	28.0	30.9	100.0
Missing		Don't know / can't say	14	3.5		
		System	24	6.0		
		Total	38	9.6		
Total		397	100.0			
Junior researcher		Valid	Not at all	2	.7	.8
	Slightly		11	3.9	4.6	5.4
	Moderately		54	19.0	22.5	27.9
	Considerably		93	32.7	38.8	66.7
	To a great extent		80	28.2	33.3	100.0
	Missing	Don't know / can't say	19	6.7		
		System	25	8.8		
		Total	44	15.5		
	Total		284	100.0		
	Research student	Valid	Not at all	2	1.3	1.6
Slightly			1	.7	.8	2.4
Moderately			25	16.8	20.3	22.8
Considerably			50	33.6	40.7	63.4
To a great extent			45	30.2	36.6	100.0
Missing		Don't know / can't say	12	8.1		
		System	14	9.4		
		Total	26	17.4		
Total		149	100.0			
Representative of an institution		Valid	Not at all	1	.9	1.2
	Slightly		10	9.4	11.8	12.9
	Moderately		23	21.7	27.1	40.0
	Considerably		31	29.2	36.5	76.5
	To a great extent		20	18.9	23.5	100.0
	Missing	Don't know / can't say	5	4.7		
		System	16	15.1		
		Total	21	19.8		
	Total		106	100.0		
	Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0	
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19f. Original findings were inadequately robust because of insufficient replication by the research group publishing the work

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	11	1.7	2.0	2.0
		Slightly	93	14.1	16.6	18.6
		Moderately	194	29.5	34.7	53.3
		Considerably	193	29.3	34.5	87.8
		To a great extent	68	10.3	12.2	100.0
		Total	559	85.0	100.0	
	Missing	Don't know / can't say	78	11.9		
	System	21	3.2			
	Total	99	15.0			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	6	1.5	1.9	1.9
		Slightly	67	16.9	20.9	22.7
		Moderately	111	28.0	34.6	57.3
		Considerably	101	25.4	31.5	88.8
		To a great extent	36	9.1	11.2	100.0
		Total	321	80.9	100.0	
	Missing	Don't know / can't say	53	13.4		
	System	23	5.8			
	Total	76	19.1			
Total			397	100.0		
Junior researcher	Valid	Not at all	5	1.8	2.5	2.5
		Slightly	44	15.5	21.7	24.1
		Moderately	68	23.9	33.5	57.6
		Considerably	65	22.9	32.0	89.7
		To a great extent	21	7.4	10.3	100.0
		Total	203	71.5	100.0	
	Missing	Don't know / can't say	58	20.4		
	System	23	8.1			
	Total	81	28.5			
Total			284	100.0		
Research student	Valid	Not at all	1	.7	.9	.9
		Slightly	11	7.4	10.3	11.2
		Moderately	42	28.2	39.3	50.5
		Considerably	39	26.2	36.4	86.9
		To a great extent	14	9.4	13.1	100.0
		Total	107	71.8	100.0	
	Missing	Don't know / can't say	28	18.8		
	System	14	9.4			
	Total	42	28.2			
Total			149	100.0		
Representative of an institution	Valid	Not at all	2	1.9	2.5	2.5
		Slightly	18	17.0	22.8	25.3
		Moderately	28	26.4	35.4	60.8
		Considerably	24	22.6	30.4	91.1
		To a great extent	7	6.6	8.9	100.0
		Total	79	74.5	100.0	
	Missing	Don't know / can't say	12	11.3		
	System	15	14.2			
	Total	27	25.5			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19g. Original findings obtained with low statistical power / poor statistical analysis

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	5	.8	.8	.8
		Slightly	85	12.9	14.2	15.1
		Moderately	200	30.4	33.4	48.5
		Considerably	207	31.5	34.6	83.1
		To a great extent	101	15.3	16.9	100.0
		Total	598	90.9	100.0	
	Missing	Don't know / can't say	42	6.4		
	System	18	2.7			
	Total	60	9.1			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	7	1.8	2.0	2.0
		Slightly	42	10.6	12.0	14.0
		Moderately	122	30.7	35.0	49.0
		Considerably	128	32.2	36.7	85.7
		To a great extent	50	12.6	14.3	100.0
		Total	349	87.9	100.0	
	Missing	Don't know / can't say	25	6.3		
	System	23	5.8			
	Total	48	12.1			
Total			397	100.0		
Junior researcher	Valid	Not at all	1	.4	.4	.4
		Slightly	28	9.9	11.9	12.3
		Moderately	85	29.9	36.0	48.3
		Considerably	82	28.9	34.7	83.1
		To a great extent	40	14.1	16.9	100.0
		Total	236	83.1	100.0	
	Missing	Don't know / can't say	25	8.8		
	System	23	8.1			
	Total	48	16.9			
Total			284	100.0		
Research student	Valid	Not at all	1	.7	.8	.8
		Slightly	14	9.4	11.7	12.5
		Moderately	38	25.5	31.7	44.2
		Considerably	44	29.5	36.7	80.8
		To a great extent	23	15.4	19.2	100.0
		Total	120	80.5	100.0	
	Missing	Don't know / can't say	15	10.1		
	System	14	9.4			
	Total	29	19.5			
Total			149	100.0		
Representative of an institution	Valid	Not at all	1	.9	1.2	1.2
		Slightly	15	14.2	18.3	19.5
		Moderately	24	22.6	29.3	48.8
		Considerably	31	29.2	37.8	86.6
		To a great extent	11	10.4	13.4	100.0
		Total	82	77.4	100.0	
	Missing	Don't know / can't say	9	8.5		
	System	15	14.2			
	Total	24	22.6			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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B. Knowledge and attitudes

q19h. Mistakes or inadequate expertise in reproduction efforts

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	17	2.6	3.0	3.0
		Slightly	175	26.6	31.0	34.0
		Moderately	224	34.0	39.6	73.6
		Considerably	129	19.6	22.8	96.5
		To a great extent	20	3.0	3.5	100.0
	Total	565	85.9	100.0		
	Missing	Don't know / can't say	74	11.2		
	System	19	2.9			
	Total	93	14.1			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	10	2.5	3.0	3.0
		Slightly	107	27.0	32.4	35.5
		Moderately	122	30.7	37.0	72.4
		Considerably	72	18.1	21.8	94.2
		To a great extent	19	4.8	5.8	100.0
	Total	330	83.1	100.0		
	Missing	Don't know / can't say	44	11.1		
	System	23	5.8			
	Total	67	16.9			
Total			397	100.0		
Junior researcher	Valid	Not at all	4	1.4	1.8	1.8
		Slightly	55	19.4	25.2	27.1
		Moderately	96	33.8	44.0	71.1
		Considerably	50	17.6	22.9	94.0
		To a great extent	13	4.6	6.0	100.0
	Total	218	76.8	100.0		
	Missing	Don't know / can't say	42	14.8		
	System	24	8.5			
	Total	66	23.2			
Total			284	100.0		
Research student	Valid	Not at all	2	1.3	1.9	1.9
		Slightly	28	18.8	26.7	28.6
		Moderately	41	27.5	39.0	67.6
		Considerably	26	17.4	24.8	92.4
		To a great extent	8	5.4	7.6	100.0
	Total	105	70.5	100.0		
	Missing	Don't know / can't say	29	19.5		
	System	15	10.1			
	Total	44	29.5			
Total			149	100.0		
Representative of an institution	Valid	Not at all	4	3.8	4.8	4.8
		Slightly	27	25.5	32.1	36.9
		Moderately	31	29.2	36.9	73.8
		Considerably	16	15.1	19.0	92.9
		To a great extent	6	5.7	7.1	100.0
	Total	84	79.2	100.0		
	Missing	Don't know / can't say	6	5.7		
	System	16	15.1			
	Total	22	20.8			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19i. Information not available from the original research group (e.g. protocols, data, code, reagent information)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	12	1.8	2.0	2.0
		Slightly	134	20.4	22.8	24.8
		Moderately	201	30.5	34.1	58.9
		Considerably	177	26.9	30.1	89.0
		To a great extent	65	9.9	11.0	100.0
	Total		589	89.5	100.0	
	Missing	Don't know / can't say	49	7.4		
		System	20	3.0		
		Total	69	10.5		
Total		658	100.0			
Mid-career researcher	Valid	Not at all	2	.5	.6	.6
		Slightly	69	17.4	19.8	20.3
		Moderately	111	28.0	31.8	52.1
		Considerably	113	28.5	32.4	84.5
		To a great extent	54	13.6	15.5	100.0
	Total		349	87.9	100.0	
	Missing	Don't know / can't say	24	6.0		
		System	24	6.0		
		Total	48	12.1		
Total		397	100.0			
Junior researcher	Valid	Slightly	26	9.2	11.1	11.1
		Moderately	66	23.2	28.2	39.3
		Considerably	99	34.9	42.3	81.6
		To a great extent	43	15.1	18.4	100.0
		Total	234	82.4	100.0	
	Missing	Don't know / can't say	25	8.8		
		System	25	8.8		
		Total	50	17.6		
	Total		284	100.0		
	Research student	Valid	Slightly	11	7.4	9.0
Moderately			42	28.2	34.4	43.4
Considerably			44	29.5	36.1	79.5
To a great extent			25	16.8	20.5	100.0
Total			122	81.9	100.0	
Missing		Don't know / can't say	12	8.1		
		System	15	10.1		
		Total	27	18.1		
Total			149	100.0		
Representative of an institution		Valid	Not at all	4	3.8	4.9
	Slightly		15	14.2	18.3	23.2
	Moderately		17	16.0	20.7	43.9
	Considerably		27	25.5	32.9	76.8
	To a great extent		19	17.9	23.2	100.0
	Total		82	77.4	100.0	
	Missing	Don't know / can't say	9	8.5		
		System	15	14.2		
		Total	24	22.6		
Total		106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19j. Methods need technical expertise that is difficult for others to reproduce

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	29	4.4	4.9	4.9
		Slightly	169	25.7	28.7	33.7
		Moderately	212	32.2	36.1	69.7
		Considerably	140	21.3	23.8	93.5
		To a great extent	38	5.8	6.5	100.0
	Total	588	89.4	100.0		
	Missing	Don't know / can't say	52	7.9		
	System	18	2.7			
	Total	70	10.6			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	17	4.3	4.9	4.9
		Slightly	113	28.5	32.5	37.4
		Moderately	98	24.7	28.2	65.5
		Considerably	91	22.9	26.1	91.7
		To a great extent	29	7.3	8.3	100.0
	Total	348	87.7	100.0		
	Missing	Don't know / can't say	26	6.5		
	System	23	5.8			
	Total	49	12.3			
Total			397	100.0		
Junior researcher	Valid	Not at all	14	4.9	6.2	6.2
		Slightly	49	17.3	21.8	28.0
		Moderately	61	21.5	27.1	55.1
		Considerably	74	26.1	32.9	88.0
		To a great extent	27	9.5	12.0	100.0
	Total	225	79.2	100.0		
	Missing	Don't know / can't say	35	12.3		
	System	24	8.5			
	Total	59	20.8			
Total			284	100.0		
Research student	Valid	Not at all	6	4.0	5.2	5.2
		Slightly	27	18.1	23.3	28.4
		Moderately	41	27.5	35.3	63.8
		Considerably	35	23.5	30.2	94.0
		To a great extent	7	4.7	6.0	100.0
	Total	116	77.9	100.0		
	Missing	Don't know / can't say	17	11.4		
	System	16	10.7			
	Total	33	22.1			
Total			149	100.0		
Representative of an institution	Valid	Not at all	3	2.8	3.6	3.6
		Slightly	28	26.4	33.3	36.9
		Moderately	32	30.2	38.1	75.0
		Considerably	18	17.0	21.4	96.4
		To a great extent	3	2.8	3.6	100.0
	Total	84	79.2	100.0		
	Missing	Don't know / can't say	7	6.6		
	System	15	14.2			
	Total	22	20.8			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19k. Variability in standard reagents

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	43	6.5	9.8	9.8
		Slightly	153	23.3	34.9	44.6
		Moderately	160	24.3	36.4	81.1
		Considerably	75	11.4	17.1	98.2
		To a great extent	8	1.2	1.8	100.0
	Total	439	66.7	100.0		
	Missing	Don't know / can't say	200	30.4		
	System	19	2.9			
	Total	219	33.3			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	19	4.8	8.1	8.1
		Slightly	78	19.6	33.1	41.1
		Moderately	72	18.1	30.5	71.6
		Considerably	51	12.8	21.6	93.2
		To a great extent	16	4.0	6.8	100.0
	Total	236	59.4	100.0		
	Missing	Don't know / can't say	137	34.5		
	System	24	6.0			
	Total	161	40.6			
Total			397	100.0		
Junior researcher	Valid	Not at all	10	3.5	6.5	6.5
		Slightly	45	15.8	29.0	35.5
		Moderately	57	20.1	36.8	72.3
		Considerably	27	9.5	17.4	89.7
		To a great extent	16	5.6	10.3	100.0
	Total	155	54.6	100.0		
	Missing	Don't know / can't say	106	37.3		
	System	23	8.1			
	Total	129	45.4			
Total			284	100.0		
Research student	Valid	Not at all	7	4.7	8.3	8.3
		Slightly	24	16.1	28.6	36.9
		Moderately	25	16.8	29.8	66.7
		Considerably	21	14.1	25.0	91.7
		To a great extent	7	4.7	8.3	100.0
	Total	84	56.4	100.0		
	Missing	Don't know / can't say	49	32.9		
	System	16	10.7			
	Total	65	43.6			
Total			149	100.0		
Representative of an institution	Valid	Not at all	5	4.7	7.7	7.7
		Slightly	21	19.8	32.3	40.0
		Moderately	25	23.6	38.5	78.5
		Considerably	12	11.3	18.5	96.9
		To a great extent	2	1.9	3.1	100.0
	Total	65	61.3	100.0		
	Missing	Don't know / can't say	26	24.5		
	System	15	14.2			
	Total	41	38.7			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 B. Knowledge and attitudes

q19I. Poor experimental design

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	13	2.0	2.2	2.2
		Slightly	114	17.3	19.0	21.2
		Moderately	221	33.6	36.9	58.1
		Considerably	182	27.7	30.4	88.5
		To a great extent	69	10.5	11.5	100.0
	Total	599	91.0	100.0		
	Missing	Don't know / can't say	39	5.9		
	System	20	3.0			
	Total	59	9.0			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	4	1.0	1.1	1.1
		Slightly	72	18.1	20.7	21.8
		Moderately	134	33.8	38.5	60.3
		Considerably	105	26.4	30.2	90.5
		To a great extent	33	8.3	9.5	100.0
	Total	348	87.7	100.0		
	Missing	Don't know / can't say	25	6.3		
	System	24	6.0			
	Total	49	12.3			
Total			397	100.0		
Junior researcher	Valid	Not at all	7	2.5	3.0	3.0
		Slightly	42	14.8	18.2	21.2
		Moderately	64	22.5	27.7	48.9
		Considerably	89	31.3	38.5	87.4
		To a great extent	29	10.2	12.6	100.0
	Total	231	81.3	100.0		
	Missing	Don't know / can't say	28	9.9		
	System	25	8.8			
	Total	53	18.7			
Total			284	100.0		
Research student	Valid	Not at all	2	1.3	1.7	1.7
		Slightly	23	15.4	19.5	21.2
		Moderately	39	26.2	33.1	54.2
		Considerably	35	23.5	29.7	83.9
		To a great extent	19	12.8	16.1	100.0
	Total	118	79.2	100.0		
	Missing	Don't know / can't say	15	10.1		
	System	16	10.7			
	Total	31	20.8			
Total			149	100.0		
Representative of an institution	Valid	Not at all	2	1.9	2.4	2.4
		Slightly	17	16.0	20.5	22.9
		Moderately	26	24.5	31.3	54.2
		Considerably	25	23.6	30.1	84.3
		To a great extent	13	12.3	15.7	100.0
	Total	83	78.3	100.0		
	Missing	Don't know / can't say	8	7.5		
	System	15	14.2			
	Total	23	21.7			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19m. Fraud (i.e. fabricated or falsified results)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	32	4.9	6.0	6.0
		Slightly	306	46.5	57.4	63.4
		Moderately	110	16.7	20.6	84.1
		Considerably	54	8.2	10.1	94.2
		To a great extent	31	4.7	5.8	100.0
		Total	533	81.0	100.0	
	Missing	Don't know / can't say	106	16.1		
	System	19	2.9			
	Total	125	19.0			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	32	8.1	10.1	10.1
		Slightly	166	41.8	52.4	62.5
		Moderately	52	13.1	16.4	78.9
		Considerably	39	9.8	12.3	91.2
		To a great extent	28	7.1	8.8	100.0
		Total	317	79.8	100.0	
	Missing	Don't know / can't say	58	14.6		
	System	22	5.5			
	Total	80	20.2			
Total			397	100.0		
Junior researcher	Valid	Not at all	33	11.6	16.0	16.0
		Slightly	94	33.1	45.6	61.7
		Moderately	39	13.7	18.9	80.6
		Considerably	14	4.9	6.8	87.4
		To a great extent	26	9.2	12.6	100.0
		Total	206	72.5	100.0	
	Missing	Don't know / can't say	55	19.4		
	System	23	8.1			
	Total	78	27.5			
Total			284	100.0		
Research student	Valid	Not at all	4	2.7	3.9	3.9
		Slightly	42	28.2	41.2	45.1
		Moderately	21	14.1	20.6	65.7
		Considerably	14	9.4	13.7	79.4
		To a great extent	21	14.1	20.6	100.0
		Total	102	68.5	100.0	
	Missing	Don't know / can't say	32	21.5		
	System	15	10.1			
	Total	47	31.5			
Total			149	100.0		
Representative of an institution	Valid	Not at all	10	9.4	13.0	13.0
		Slightly	44	41.5	57.1	70.1
		Moderately	15	14.2	19.5	89.6
		Considerably	4	3.8	5.2	94.8
		To a great extent	4	3.8	5.2	100.0
		Total	77	72.6	100.0	
	Missing	Don't know / can't say	14	13.2		
	System	15	14.2			
	Total	29	27.4			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
B. Knowledge and attitudes

q19n. Bad luck

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	183	27.8	34.7	34.7
		Slightly	201	30.5	38.1	72.9
		Moderately	113	17.2	21.4	94.3
		Considerably	26	4.0	4.9	99.2
		To a great extent	4	.6	.8	100.0
		Total	527	80.1	100.0	
	Missing	Don't know / can't say	111	16.9		
	System	20	3.0			
	Total	131	19.9			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	130	32.7	41.3	41.3
		Slightly	121	30.5	38.4	79.7
		Moderately	49	12.3	15.6	95.2
		Considerably	13	3.3	4.1	99.4
		To a great extent	2	.5	.6	100.0
		Total	315	79.3	100.0	
	Missing	Don't know / can't say	59	14.9		
	System	23	5.8			
	Total	82	20.7			
Total			397	100.0		
Junior researcher	Valid	Not at all	80	28.2	38.1	38.1
		Slightly	79	27.8	37.6	75.7
		Moderately	37	13.0	17.6	93.3
		Considerably	10	3.5	4.8	98.1
		To a great extent	4	1.4	1.9	100.0
		Total	210	73.9	100.0	
	Missing	Don't know / can't say	50	17.6		
	System	24	8.5			
	Total	74	26.1			
Total			284	100.0		
Research student	Valid	Not at all	35	23.5	33.0	33.0
		Slightly	42	28.2	39.6	72.6
		Moderately	19	12.8	17.9	90.6
		Considerably	8	5.4	7.5	98.1
		To a great extent	2	1.3	1.9	100.0
		Total	106	71.1	100.0	
	Missing	Don't know / can't say	28	18.8		
	System	15	10.1			
	Total	43	28.9			
Total			149	100.0		
Representative of an institution	Valid	Not at all	32	30.2	42.7	42.7
		Slightly	25	23.6	33.3	76.0
		Moderately	15	14.2	20.0	96.0
		Considerably	2	1.9	2.7	98.7
		To a great extent	1	.9	1.3	100.0
		Total	75	70.8	100.0	
	Missing	Don't know / can't say	16	15.1		
	System	15	14.2			
	Total	31	29.2			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
C. Environment

q20a. Research practices in my department / research group follow established institutional policies regarding research

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	8	1.2	1.3	1.3
		Disagree	12	1.8	1.9	3.2
		Neither agree nor disagree	33	5.0	5.3	8.6
		Agree	301	45.7	48.8	57.4
		Strongly agree	263	40.0	42.6	100.0
	Missing	Don't know / not applicable	5	.8		
		System	36	5.5		
Total		Total	617	93.8	100.0	
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	4	1.0	1.2	1.2
		Disagree	11	2.8	3.3	4.5
		Neither agree nor disagree	20	5.0	5.9	10.4
		Agree	171	43.1	50.7	61.1
		Strongly agree	131	33.0	38.9	100.0
	Missing	Don't know / not applicable	8	2.0		
		System	52	13.1		
Total		Total	337	84.9	100.0	
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	2	.7	.8	.8
		Disagree	6	2.1	2.5	3.4
		Neither agree nor disagree	18	6.3	7.6	11.0
		Agree	124	43.7	52.5	63.6
		Strongly agree	86	30.3	36.4	100.0
	Missing	Don't know / not applicable	6	2.1		
		System	42	14.8		
Total		Total	236	83.1	100.0	
Total			284	100.0		
Research student	Valid	Strongly disagree	1	.7	.8	.8
		Disagree	4	2.7	3.4	4.2
		Neither agree nor disagree	9	6.0	7.6	11.8
		Agree	55	36.9	46.2	58.0
		Strongly agree	50	33.6	42.0	100.0
	Missing	Don't know / not applicable	6	4.0		
		System	24	16.1		
Total		Total	119	79.9	100.0	
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
C. Environment

q20b. People in my department / research group implement data management principles within their research projects

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	5	.8	.8	.8
		Disagree	18	2.7	3.0	3.8
		Neither agree nor disagree	63	9.6	10.3	14.1
		Agree	313	47.6	51.3	65.4
		Strongly agree	211	32.1	34.6	100.0
		Total	610	92.7	100.0	
	Missing	Don't know / not applicable	11	1.7		
	System	37	5.6			
	Total	48	7.3			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	5	1.3	1.5	1.5
		Disagree	14	3.5	4.1	5.6
		Neither agree nor disagree	23	5.8	6.8	12.4
		Agree	195	49.1	57.4	69.7
		Strongly agree	103	25.9	30.3	100.0
		Total	340	85.6	100.0	
	Missing	Don't know / not applicable	5	1.3		
	System	52	13.1			
	Total	57	14.4			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	2	.7	.9	.9
		Disagree	15	5.3	6.5	7.4
		Neither agree nor disagree	17	6.0	7.4	14.7
		Agree	130	45.8	56.3	71.0
		Strongly agree	67	23.6	29.0	100.0
		Total	231	81.3	100.0	
	Missing	Don't know / not applicable	11	3.9		
	System	42	14.8			
	Total	53	18.7			
Total			284	100.0		
Research student	Valid	Strongly disagree	5	3.4	4.2	4.2
		Disagree	6	4.0	5.0	9.2
		Neither agree nor disagree	13	8.7	10.9	20.2
		Agree	57	38.3	47.9	68.1
		Strongly agree	38	25.5	31.9	100.0
		Total	119	79.9	100.0	
	Missing	Don't know / not applicable	6	4.0		
	System	24	16.1			
	Total	30	20.1			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q20c. People in my department / research group appropriately handle data from collection to archival with an intention for potential future re-use

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	6	.9	1.0	1.0
		Disagree	36	5.5	6.0	7.0
		Neither agree nor disagree	92	14.0	15.3	22.3
		Agree	292	44.4	48.5	70.8
		Strongly agree	176	26.7	29.2	100.0
	Total	602	91.5	100.0		
	Missing	Don't know / not applicable	17	2.6		
	System	39	5.9			
	Total	56	8.5			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	6	1.5	1.8	1.8
		Disagree	9	2.3	2.7	4.5
		Neither agree nor disagree	42	10.6	12.7	17.2
		Agree	176	44.3	53.0	70.2
		Strongly agree	99	24.9	29.8	100.0
	Total	332	83.6	100.0		
	Missing	Don't know / not applicable	10	2.5		
	System	55	13.9			
	Total	65	16.4			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	5	1.8	2.2	2.2
		Disagree	23	8.1	9.9	12.1
		Neither agree nor disagree	22	7.7	9.5	21.6
		Agree	123	43.3	53.0	74.6
		Strongly agree	59	20.8	25.4	100.0
	Total	232	81.7	100.0		
	Missing	Don't know / not applicable	10	3.5		
	System	42	14.8			
	Total	52	18.3			
Total			284	100.0		
Research student	Valid	Strongly disagree	3	2.0	2.6	2.6
		Disagree	13	8.7	11.4	14.0
		Neither agree nor disagree	17	11.4	14.9	28.9
		Agree	49	32.9	43.0	71.9
		Strongly agree	32	21.5	28.1	100.0
	Total	114	76.5	100.0		
	Missing	Don't know / not applicable	11	7.4		
	System	24	16.1			
	Total	35	23.5			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q20d. Junior researchers are effectively mentored about responsible research practices

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	15	2.3	2.4	2.4
		Disagree	35	5.3	5.7	8.1
		Neither agree nor disagree	62	9.4	10.1	18.2
		Agree	337	51.2	54.7	72.9
		Strongly agree	167	25.4	27.1	100.0
		Total	616	93.6	100.0	
	Missing	Don't know / not applicable	5	.8		
	System	37	5.6			
	Total	42	6.4			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	7	1.8	2.1	2.1
		Disagree	47	11.8	13.9	16.0
		Neither agree nor disagree	46	11.6	13.6	29.6
		Agree	167	42.1	49.4	79.0
		Strongly agree	71	17.9	21.0	100.0
		Total	338	85.1	100.0	
	Missing	Don't know / not applicable	3	.8		
	System	56	14.1			
	Total	59	14.9			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	15	5.3	6.3	6.3
		Disagree	45	15.8	18.8	25.1
		Neither agree nor disagree	47	16.5	19.7	44.8
		Agree	90	31.7	37.7	82.4
		Strongly agree	42	14.8	17.6	100.0
		Total	239	84.2	100.0	
	Missing	Don't know / not applicable	2	.7		
	System	43	15.1			
	Total	45	15.8			
Total			284	100.0		
Research student	Valid	Strongly disagree	8	5.4	6.7	6.7
		Disagree	23	15.4	19.3	26.1
		Neither agree nor disagree	14	9.4	11.8	37.8
		Agree	45	30.2	37.8	75.6
		Strongly agree	29	19.5	24.4	100.0
		Total	119	79.9	100.0	
	Missing	Don't know / not applicable	5	3.4		
	System	25	16.8			
	Total	30	20.1			
Total			149	100.0		
Representative of an institution	Valid	Strongly disagree	9	8.5	10.1	10.1
		Disagree	25	23.6	28.1	38.2
		Neither agree nor disagree	25	23.6	28.1	66.3
		Agree	26	24.5	29.2	95.5
		Strongly agree	4	3.8	4.5	100.0
		Total	89	84.0	100.0	
	Missing	Don't know / not applicable	2	1.9		
	System	15	14.2			
	Total	17	16.0			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q20e. Researchers in my immediate research environment are committed to appropriate data and code sharing when publishing research results

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	7	1.1	1.1	1.1
		Disagree	32	4.9	5.2	6.4
		Neither agree nor disagree	78	11.9	12.8	19.1
		Agree	289	43.9	47.3	66.4
		Strongly agree	205	31.2	33.6	100.0
	Missing	Don't know / not applicable	9	1.4		
		System	38	5.8		
Total		Total	611	92.9	100.0	
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	4	1.0	1.2	1.2
		Disagree	23	5.8	6.8	8.0
		Neither agree nor disagree	62	15.6	18.4	26.4
		Agree	161	40.6	47.8	74.2
		Strongly agree	87	21.9	25.8	100.0
	Missing	Don't know / not applicable	6	1.5		
		System	54	13.6		
Total		Total	337	84.9	100.0	
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	8	2.8	3.4	3.4
		Disagree	30	10.6	12.9	16.3
		Neither agree nor disagree	49	17.3	21.0	37.3
		Agree	88	31.0	37.8	75.1
		Strongly agree	58	20.4	24.9	100.0
	Missing	Don't know / not applicable	9	3.2		
		System	42	14.8		
Total		Total	233	82.0	100.0	
Total			284	100.0		
Research student	Valid	Strongly disagree	2	1.3	1.8	1.8
		Disagree	11	7.4	10.1	11.9
		Neither agree nor disagree	20	13.4	18.3	30.3
		Agree	44	29.5	40.4	70.6
		Strongly agree	32	21.5	29.4	100.0
	Missing	Don't know / not applicable	16	10.7		
		System	24	16.1		
Total		Total	109	73.2	100.0	
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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C. Environment

q20f. Researchers in my immediate research environment are committed to open access publishing when publishing research results

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	13	2.0	2.1	2.1
		Disagree	70	10.6	11.6	13.7
		Neither agree nor disagree	179	27.2	29.6	43.3
		Agree	217	33.0	35.9	79.2
		Strongly agree	126	19.1	20.8	100.0
		Total	605	91.9	100.0	
	Missing	Don't know / not applicable	16	2.4		
	System	37	5.6			
	Total	53	8.1			
	Total	658	100.0			
Mid-career researcher	Valid	Strongly disagree	9	2.3	2.7	2.7
		Disagree	58	14.6	17.2	19.9
		Neither agree nor disagree	97	24.4	28.8	48.7
		Agree	120	30.2	35.6	84.3
		Strongly agree	53	13.4	15.7	100.0
		Total	337	84.9	100.0	
	Missing	Don't know / not applicable	5	1.3		
	System	55	13.9			
	Total	60	15.1			
	Total	397	100.0			
Junior researcher	Valid	Strongly disagree	14	4.9	6.1	6.1
		Disagree	37	13.0	16.2	22.3
		Neither agree nor disagree	70	24.6	30.6	52.8
		Agree	64	22.5	27.9	80.8
		Strongly agree	44	15.5	19.2	100.0
		Total	229	80.6	100.0	
	Missing	Don't know / not applicable	13	4.6		
	System	42	14.8			
	Total	55	19.4			
	Total	284	100.0			
Research student	Valid	Strongly disagree	2	1.3	1.8	1.8
		Disagree	13	8.7	11.7	13.5
		Neither agree nor disagree	21	14.1	18.9	32.4
		Agree	44	29.5	39.6	72.1
		Strongly agree	31	20.8	27.9	100.0
		Total	111	74.5	100.0	
	Missing	Don't know / not applicable	14	9.4		
	System	24	16.1			
	Total	38	25.5			
	Total	149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q21mr. Which of the following procedures have you / your research group established to ensure reproducibility in your work? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	Estimate required number of participants / animals per experimental cohort	439	70.9%
		Estimate statistical power	482	77.9%
		Randomly allocate participants / animals to experimental cohorts	420	67.9%
		Apply inclusion or exclusion criteria	410	66.2%
		Procedures for accounting for dropouts / losses documented in the analysis plan	334	54.0%
		Blind outcome assessment	375	60.6%
		Transparent reporting of study design and methods	555	89.7%
		In house replication before publication	253	40.9%
		Inclusion of positive and negative controls	420	67.9%
		Validation of tools or reagents such as antibodies, SiRNAs, small molecules	321	51.9%
		Other	88	14.2%
		No procedures have been established to ensure reproducibility in our work	4	0.6%
		Don't know / can't say	4	0.6%
		Number of Respondents		
Mid-career researcher	Valid	Estimate required number of participants / animals per experimental cohort	226	65.3%
		Estimate statistical power	248	71.7%
		Randomly allocate participants / animals to experimental cohorts	209	60.4%
		Apply inclusion or exclusion criteria	253	73.1%
		Procedures for accounting for dropouts / losses documented in the analysis plan	174	50.3%
		Blind outcome assessment	184	53.2%
		Transparent reporting of study design and methods	299	86.4%
		In house replication before publication	120	34.7%
		Inclusion of positive and negative controls	200	57.8%
		Validation of tools or reagents such as antibodies, SiRNAs, small molecules	149	43.1%
		Other	35	10.1%
		No procedures have been established to ensure reproducibility in our work	5	1.4%
		Don't know / can't say	4	1.2%
		Number of Respondents		
Junior researcher	Valid	Estimate required number of participants / animals per experimental cohort	154	63.4%
		Estimate statistical power	174	71.6%
		Randomly allocate participants / animals to experimental cohorts	142	58.4%
		Apply inclusion or exclusion criteria	173	71.2%
		Procedures for accounting for dropouts / losses documented in the analysis plan	125	51.4%
		Blind outcome assessment	99	40.7%
		Transparent reporting of study design and methods	211	86.8%
		In house replication before publication	59	24.3%
		Inclusion of positive and negative controls	117	48.1%
		Validation of tools or reagents such as antibodies, SiRNAs, small molecules	82	33.7%
		Other	14	5.8%
		No procedures have been established to ensure reproducibility in our work	3	1.2%
		Don't know / can't say	5	2.1%
		Number of Respondents		
Research student	Valid	Estimate required number of participants / animals per experimental cohort	62	49.6%
		Estimate statistical power	75	60.0%
		Randomly allocate participants / animals to experimental cohorts	46	36.8%
		Apply inclusion or exclusion criteria	90	72.0%
		Procedures for accounting for dropouts / losses documented in the analysis plan	44	35.2%
		Blind outcome assessment	29	23.2%
		Transparent reporting of study design and methods	103	82.4%
		In house replication before publication	26	20.8%
		Inclusion of positive and negative controls	56	44.8%
		Validation of tools or reagents such as antibodies, SiRNAs, small molecules	48	38.4%
		Other	2	1.6%

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q21mr. Which of the following procedures have you / your research group established to ensure reproducibility in your work? (Multiple Response)

q1. In what capacity are you participating in this survey?		Frequency	% of respondents
Representative of an institution		No procedures have been established to ensure reproducibility in our work	2 1.6%
		Don't know / can't say	8 6.4%
	Number of Respondents		125 100.0%
Current member of a Human Research Ethics Committee (HREC)	Valid	Estimate required number of participants / animals per experimental cohort Estimate statistical power Randomly allocate participants / animals to experimental cohorts Apply inclusion or exclusion criteria Procedures for accounting for dropouts / losses documented in the analysis plan Blind outcome assessment Transparent reporting of study design and methods In house replication before publication Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, SiRNAs, small molecules Other No procedures have been established to ensure reproducibility in our work Don't know / can't say	
	Number of Respondents		
	Valid	Estimate required number of participants / animals per experimental cohort Estimate statistical power Randomly allocate participants / animals to experimental cohorts Apply inclusion or exclusion criteria Procedures for accounting for dropouts / losses documented in the analysis plan Blind outcome assessment Transparent reporting of study design and methods In house replication before publication Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, SiRNAs, small molecules Other No procedures have been established to ensure reproducibility in our work Don't know / can't say	
Current member of an Animal Ethics Committee (AEC)	Valid	Estimate required number of participants / animals per experimental cohort Estimate statistical power Randomly allocate participants / animals to experimental cohorts Apply inclusion or exclusion criteria Procedures for accounting for dropouts / losses documented in the analysis plan Blind outcome assessment Transparent reporting of study design and methods In house replication before publication Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, SiRNAs, small molecules Other No procedures have been established to ensure reproducibility in our work Don't know / can't say	
	Number of Respondents		
	Valid	Estimate required number of participants / animals per experimental cohort Estimate statistical power Randomly allocate participants / animals to experimental cohorts Apply inclusion or exclusion criteria Procedures for accounting for dropouts / losses documented in the analysis plan Blind outcome assessment Transparent reporting of study design and methods In house replication before publication Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, SiRNAs, small molecules Other No procedures have been established to ensure reproducibility in our work Don't know / can't say	
Number of Respondents			

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q22. When were such procedures first established within your research group?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Within the last year	1	.2	.2	.2
		1 year to less than 2 years ago	2	.3	.3	.5
		2 years to less than 5 years ago	49	7.4	8.2	8.7
		More than 5 years ago	181	27.5	30.4	39.2
		These procedures have been in place since I started working in my research group	362	55.0	60.8	100.0
		Total	595	90.4	100.0	
	Missing	System	63	9.6		
Total			658	100.0		
Mid-career researcher	Valid	Within the last year	5	1.3	1.5	1.5
		1 year to less than 2 years ago	9	2.3	2.7	4.2
		2 years to less than 5 years ago	39	9.8	11.7	16.0
		More than 5 years ago	68	17.1	20.5	36.4
		These procedures have been in place since I started working in my research group	211	53.1	63.6	100.0
		Total	332	83.6	100.0	
	Missing	System	65	16.4		
Total			397	100.0		
Junior researcher	Valid	Within the last year	2	.7	.9	.9
		1 year to less than 2 years ago	8	2.8	3.5	4.3
		2 years to less than 5 years ago	18	6.3	7.8	12.2
		More than 5 years ago	28	9.9	12.2	24.3
		These procedures have been in place since I started working in my research group	174	61.3	75.7	100.0
		Total	230	81.0	100.0	
	Missing	System	54	19.0		
Total			284	100.0		
Research student	Valid	Within the last year	3	2.0	2.7	2.7
		1 year to less than 2 years ago	2	1.3	1.8	4.5
		2 years to less than 5 years ago	7	4.7	6.4	10.9
		More than 5 years ago	7	4.7	6.4	17.3
		These procedures have been in place since I started working in my research group	91	61.1	82.7	100.0
		Total	110	73.8	100.0	
	Missing	System	39	26.2		
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

q23. Did the quality of your research change after these procedures were introduced?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Valid	Yes, the quality of my research improved	103	15.7	58.5	58.5	
		No, the quality of my research remained unchanged	73	11.1	41.5	100.0	
		Total	176	26.7	100.0		
		Missing	Don't know / can't say	56	8.5		
			System	426	64.7		
			Total	482	73.3		
	Total			658	100.0		
Mid-career researcher	Valid	Yes, the quality of my research improved	57	14.4	63.3	63.3	
		Yes, the quality of my research worsened	2	.5	2.2	65.6	
		No, the quality of my research remained unchanged	31	7.8	34.4	100.0	
		Total	90	22.7	100.0		
		Missing	Don't know / can't say	31	7.8		
			System	276	69.5		
		Total	307	77.3			
Total			397	100.0			
Junior researcher	Valid	Yes, the quality of my research improved	23	8.1	67.6	67.6	
		No, the quality of my research remained unchanged	11	3.9	32.4	100.0	
		Total	34	12.0	100.0		
		Missing	Don't know / can't say	22	7.7		
			System	228	80.3		
			Total	250	88.0		
	Total			284	100.0		
Research student	Valid	Yes, the quality of my research improved	6	4.0	66.7	66.7	
		Yes, the quality of my research worsened	1	.7	11.1	77.8	
		No, the quality of my research remained unchanged	2	1.3	22.2	100.0	
		Total	9	6.0	100.0		
		Missing	Don't know / can't say	11	7.4		
			System	129	86.6		
		Total	140	94.0			
Total			149	100.0			
Representative of an institution	Missing	System	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0			

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q24. Have you / your research group experienced any barriers when trying to implement procedures to improve reproducibility of research?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Yes	133	20.2	21.8	21.8
		No	414	62.9	67.9	89.7
		I / we haven't ever tried to implement such procedures	22	3.3	3.6	93.3
		Don't know / can't say	41	6.2	6.7	100.0
		Total	610	92.7	100.0	
	Missing	System	48	7.3		
	Total	658	100.0			
Mid-career researcher	Valid	Yes	64	16.1	18.8	18.8
		No	197	49.6	57.8	76.5
		I / we haven't ever tried to implement such procedures	25	6.3	7.3	83.9
		Don't know / can't say	55	13.9	16.1	100.0
		Total	341	85.9	100.0	
	Missing	System	56	14.1		
	Total	397	100.0			
Junior researcher	Valid	Yes	42	14.8	17.4	17.4
		No	96	33.8	39.7	57.0
		I / we haven't ever tried to implement such procedures	35	12.3	14.5	71.5
		Don't know / can't say	69	24.3	28.5	100.0
		Total	242	85.2	100.0	
	Missing	System	42	14.8		
	Total	284	100.0			
Research student	Valid	Yes	14	9.4	11.5	11.5
		No	28	18.8	23.0	34.4
		I / we haven't ever tried to implement such procedures	21	14.1	17.2	51.6
		Don't know / can't say	59	39.6	48.4	100.0
		Total	122	81.9	100.0	
	Missing	System	27	18.1		
	Total	149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

q26mr. Have you ever tried to reproduce a finding from a published paper? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	Yes, and I was able to fully reproduce the finding	223	36.4%
		Yes, but I was not able to fully reproduce the finding	325	53.1%
		No, I have not tried to reproduce a finding from a published paper	188	30.7%
		Number of Respondents	612	100.0%
	Missing	System		
Mid-career researcher	Valid	Yes, and I was able to fully reproduce the finding	98	28.7%
		Yes, but I was not able to fully reproduce the finding	162	47.4%
		No, I have not tried to reproduce a finding from a published paper	120	35.1%
		Number of Respondents	342	100.0%
	Missing	System		
Junior researcher	Valid	Yes, and I was able to fully reproduce the finding	50	20.9%
		Yes, but I was not able to fully reproduce the finding	67	28.0%
		No, I have not tried to reproduce a finding from a published paper	136	56.9%
		Number of Respondents	239	100.0%
	Missing	System		
Research student	Valid	Yes, and I was able to fully reproduce the finding	17	14.2%
		Yes, but I was not able to fully reproduce the finding	22	18.3%
		No, I have not tried to reproduce a finding from a published paper	82	68.3%
		Number of Respondents	120	100.0%
	Missing	System		
Representative of an institution	Valid	Yes, and I was able to fully reproduce the finding		
		Yes, but I was not able to fully reproduce the finding		
		No, I have not tried to reproduce a finding from a published paper		
		Number of Respondents		
	Missing	System		
Current member of a Human Research Ethics Committee (HREC)	Valid	Yes, and I was able to fully reproduce the finding		
		Yes, but I was not able to fully reproduce the finding		
		No, I have not tried to reproduce a finding from a published paper		
		Number of Respondents		
	Missing	System		
Current member of an Animal Ethics Committee (AEC)	Valid	Yes, and I was able to fully reproduce the finding		
		Yes, but I was not able to fully reproduce the finding		
		No, I have not tried to reproduce a finding from a published paper		
		Number of Respondents		
	Missing	System		

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q26mr. Have you ever tried to reproduce a finding from a published paper? (Multiple Response)

q1. In what capacity are you participating in this survey?	Frequency	% of respondents
Number of Respondents		

q27. Did you try to publish findings that disagreed with those in a published paper?

q1. In what capacity are you participating in this survey?	Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Valid	Yes	250	38.0	77.2
		No	74	11.2	22.8
		Total	324	49.2	100.0
	Missing	System	334	50.8	
Total			658	100.0	
Mid-career researcher	Valid	Yes	94	23.7	58.0
		No	68	17.1	42.0
		Total	162	40.8	100.0
	Missing	System	235	59.2	
Total			397	100.0	
Junior researcher	Valid	Yes	32	11.3	47.8
		No	35	12.3	52.2
		Total	67	23.6	100.0
	Missing	System	217	76.4	
Total			284	100.0	
Research student	Valid	Yes	5	3.4	22.7
		No	17	11.4	77.3
		Total	22	14.8	100.0
	Missing	System	127	85.2	
Total			149	100.0	
Representative of an institution	Missing	System	106	100.0	
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0	
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0	

q29. Were the differences in findings ever resolved by you or another researcher?

q1. In what capacity are you participating in this survey?	Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Valid	Yes	114	17.3	35.4
		No	208	31.6	64.6
		Total	322	48.9	100.0
	Missing	System	336	51.1	
Total			658	100.0	
Mid-career researcher	Valid	Yes	44	11.1	27.3
		No	117	29.5	72.7
		Total	161	40.6	100.0
	Missing	System	236	59.4	
Total			397	100.0	
Junior researcher	Valid	Yes	12	4.2	17.9
		No	55	19.4	82.1
		Total	67	23.6	100.0
	Missing	System	217	76.4	
Total			284	100.0	
Research student	Valid	Yes	2	1.3	9.1
		No	20	13.4	90.9
		Total	22	14.8	100.0
	Missing	System	127	85.2	
Total			149	100.0	
Representative of an institution	Missing	System	106	100.0	
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0	
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0	

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q30mr. Have you ever tried to reproduce a finding from your own published paper? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	Yes, and I was able to fully reproduce the finding	390	63.5%
		Yes, but I was not able to fully reproduce the finding	85	13.8%
		No, I have not tried to reproduce a finding from my own published paper	183	29.8%
		I have not published any work to date	1	0.2%
	Number of Respondents			614
Mid-career researcher	Valid	Yes, and I was able to fully reproduce the finding	173	50.3%
		Yes, but I was not able to fully reproduce the finding	20	5.8%
		No, I have not tried to reproduce a finding from my own published paper	159	46.2%
		I have not published any work to date	1	0.3%
	Number of Respondents			344
Junior researcher	Valid	Yes, and I was able to fully reproduce the finding	83	34.2%
		Yes, but I was not able to fully reproduce the finding	4	1.6%
		No, I have not tried to reproduce a finding from my own published paper	148	60.9%
		I have not published any work to date	9	3.7%
	Number of Respondents			243
Research student	Valid	Yes, and I was able to fully reproduce the finding	16	12.8%
		Yes, but I was not able to fully reproduce the finding	3	2.4%
		No, I have not tried to reproduce a finding from my own published paper	68	54.4%
		I have not published any work to date	38	30.4%
	Number of Respondents			125
Representative of an institution	Valid	Yes, and I was able to fully reproduce the finding		
		Yes, but I was not able to fully reproduce the finding		
		No, I have not tried to reproduce a finding from my own published paper		
		I have not published any work to date		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	Yes, and I was able to fully reproduce the finding		
		Yes, but I was not able to fully reproduce the finding		
		No, I have not tried to reproduce a finding from my own published paper		
		I have not published any work to date		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	Yes, and I was able to fully reproduce the finding		
		Yes, but I was not able to fully reproduce the finding		
		No, I have not tried to reproduce a finding from my own published paper		
		I have not published any work to date		
	Number of Respondents			

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q31. Have you ever been aware that a finding you had published was not able to be reproduced?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Yes	92	14.0	15.0	15.0
		No	520	79.0	85.0	100.0
		Total	612	93.0	100.0	
	Missing	System	46	7.0		
Total			658	100.0		
Mid-career researcher	Valid	Yes	23	5.8	6.8	6.8
		No	317	79.8	93.2	100.0
		Total	340	85.6	100.0	
	Missing	System	57	14.4		
Total			397	100.0		
Junior researcher	Valid	Yes	10	3.5	4.3	4.3
		No	223	78.5	95.7	100.0
		Total	233	82.0	100.0	
	Missing	System	51	18.0		
Total			284	100.0		
Research student	Valid	Yes	5	3.4	5.8	5.8
		No	81	54.4	94.2	100.0
		Total	86	57.7	100.0	
	Missing	System	63	42.3		
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

q33a. in class / tutorials

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Missing	System	658	100.0		
Mid-career researcher	Missing	System	397	100.0		
Junior researcher	Missing	System	284	100.0		
Research student	Valid	Never	23	15.4	28.0	28.0
		Annually or less often	20	13.4	24.4	52.4
		Quarterly	22	14.8	26.8	79.3
		Monthly	10	6.7	12.2	91.5
		Weekly	7	4.7	8.5	100.0
		Total	82	55.0	100.0	
	Missing	System	32	21.5		
		Don't know / can't say	35	23.5		
Total			67	45.0		
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q33b. with your immediate peers

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Never	3	.5	.5	.5
		Annually or less often	80	12.2	13.5	14.0
		Quarterly	148	22.5	24.9	38.9
		Monthly	171	26.0	28.8	67.7
		Weekly	157	23.9	26.4	94.1
		Daily	35	5.3	5.9	100.0
		Total	594	90.3	100.0	
	Missing	Don't know / can't say	7	1.1		
		System	57	8.7		
		Total	64	9.7		
Total			658	100.0		
Mid-career researcher	Valid	Never	4	1.0	1.2	1.2
		Annually or less often	39	9.8	11.6	12.8
		Quarterly	54	13.6	16.1	29.0
		Monthly	102	25.7	30.4	59.4
		Weekly	111	28.0	33.1	92.5
		Daily	25	6.3	7.5	100.0
		Total	335	84.4	100.0	
	Missing	Don't know / can't say	2	.5		
		System	60	15.1		
		Total	62	15.6		
Total			397	100.0		
Junior researcher	Valid	Never	18	6.3	7.6	7.6
		Annually or less often	20	7.0	8.4	16.0
		Quarterly	47	16.5	19.8	35.9
		Monthly	73	25.7	30.8	66.7
		Weekly	69	24.3	29.1	95.8
		Daily	10	3.5	4.2	100.0
		Total	237	83.5	100.0	
	Missing	Don't know / can't say	4	1.4		
		System	43	15.1		
		Total	47	16.5		
Total			284	100.0		
Research student	Valid	Never	10	6.7	8.7	8.7
		Annually or less often	19	12.8	16.5	25.2
		Quarterly	23	15.4	20.0	45.2
		Monthly	33	22.1	28.7	73.9
		Weekly	23	15.4	20.0	93.9
		Daily	7	4.7	6.1	100.0
		Total	115	77.2	100.0	
	Missing	Don't know / can't say	7	4.7		
		System	27	18.1		
		Total	34	22.8		
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q33c. with a supervisor

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Missing	System	658	100.0		
Mid-career researcher	Missing	System	397	100.0		
Junior researcher	Valid	Never	15	5.3	6.4	6.4
		Annually or less often	28	9.9	11.9	18.3
		Quarterly	53	18.7	22.6	40.9
		Monthly	83	29.2	35.3	76.2
		Weekly	55	19.4	23.4	99.6
		Daily	1	.4	.4	100.0
		Total	235	82.7	100.0	
	Missing	System	44	15.5		
		Don't know / can't say	5	1.8		
		Total	49	17.3		
Total		284	100.0			
Research student	Valid	Never	5	3.4	4.2	4.2
		Annually or less often	17	11.4	14.4	18.6
		Quarterly	24	16.1	20.3	39.0
		Monthly	47	31.5	39.8	78.8
		Weekly	25	16.8	21.2	100.0
	Total	118	79.2	100.0		
	Missing	System	28	18.8		
		Don't know / can't say	3	2.0		
Total		31	20.8			
Total		149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

q33d. with a mentor

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Never	111	16.9	21.1	21.1
		Annually or less often	167	25.4	31.7	52.8
		Quarterly	111	16.9	21.1	73.8
		Monthly	99	15.0	18.8	92.6
		Weekly	36	5.5	6.8	99.4
		Daily	3	.5	.6	100.0
		Total	527	80.1	100.0	
	Missing	Don't know / can't say	68	10.3		
		System	63	9.6		
		Total	131	19.9		
Total		658	100.0			
Mid-career researcher	Valid	Never	36	9.1	11.3	11.3
		Annually or less often	81	20.4	25.4	36.7
		Quarterly	77	19.4	24.1	60.8
		Monthly	86	21.7	27.0	87.8
		Weekly	38	9.6	11.9	99.7
		Daily	1	.3	.3	100.0
		Total	319	80.4	100.0	
	Missing	Don't know / can't say	16	4.0		
		System	62	15.6		
		Total	78	19.6		
Total		397	100.0			
Junior researcher	Valid	Never	43	15.1	20.3	20.3
		Annually or less often	39	13.7	18.4	38.7
		Quarterly	54	19.0	25.5	64.2
		Monthly	50	17.6	23.6	87.7
		Weekly	23	8.1	10.8	98.6
		Daily	3	1.1	1.4	100.0
		Total	212	74.6	100.0	
	Missing	Don't know / can't say	27	9.5		
		System	45	15.8		
		Total	72	25.4		
Total		284	100.0			
Research student	Valid	Never	18	12.1	18.8	18.8
		Annually or less often	22	14.8	22.9	41.7
		Quarterly	17	11.4	17.7	59.4
		Monthly	22	14.8	22.9	82.3
		Weekly	17	11.4	17.7	100.0
		Total	96	64.4	100.0	

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q33d. with a mentor

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Missing	Don't know / can't say	System	25	16.8		
		Total	28	18.8		
			53	35.6		
		Total	149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

q33e. with a senior staff member

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent		
Senior researcher	Valid	Never	44	6.7	7.7	7.7		
		Annually or less often	148	22.5	25.9	33.6		
		Quarterly	152	23.1	26.6	60.1		
		Monthly	157	23.9	27.4	87.6		
		Weekly	60	9.1	10.5	98.1		
		Daily	11	1.7	1.9	100.0		
		Total	572	86.9	100.0			
		Missing	Don't know / can't say	System	25	3.8		
				Total	61	9.3		
				Total	86	13.1		
Total	658	100.0						
Mid-career researcher	Valid	Never	32	8.1	9.7	9.7		
		Annually or less often	73	18.4	22.1	31.8		
		Quarterly	87	21.9	26.4	58.2		
		Monthly	89	22.4	27.0	85.2		
		Weekly	46	11.6	13.9	99.1		
		Daily	3	.8	.9	100.0		
		Total	330	83.1	100.0			
		Missing	Don't know / can't say	System	6	1.5		
				Total	61	15.4		
				Total	67	16.9		
Total	397	100.0						
Junior researcher	Valid	Never	33	11.6	14.3	14.3		
		Annually or less often	52	18.3	22.6	37.0		
		Quarterly	55	19.4	23.9	60.9		
		Monthly	62	21.8	27.0	87.8		
		Weekly	25	8.8	10.9	98.7		
		Daily	3	1.1	1.3	100.0		
		Total	230	81.0	100.0			
		Missing	Don't know / can't say	System	9	3.2		
				Total	45	15.8		
				Total	54	19.0		
Total	284	100.0						
Research student	Valid	Never	27	18.1	26.7	26.7		
		Annually or less often	24	16.1	23.8	50.5		
		Quarterly	13	8.7	12.9	63.4		
		Monthly	20	13.4	19.8	83.2		
		Weekly	17	11.4	16.8	100.0		
		Total	101	67.8	100.0			
		Missing	Don't know / can't say	System	20	13.4		
				Total	28	18.8		
				Total	48	32.2		
		Total	149	100.0				
Representative of an institution	Valid	Never	5	4.7	5.7	5.7		
		Annually or less often	14	13.2	16.1	21.8		
		Quarterly	15	14.2	17.2	39.1		
		Monthly	20	18.9	23.0	62.1		
		Weekly	22	20.8	25.3	87.4		
		Daily	11	10.4	12.6	100.0		
		Total	87	82.1	100.0			
		Missing	Don't know / can't say	System	4	3.8		
				Total	15	14.2		
				Total	19	17.9		
Total	106	100.0						
Current member of a Human Research Ethics Committee (HREC)	Valid	Never	15	11.9	15.0	15.0		
		Annually or less often	18	14.3	18.0	33.0		

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q33e. with a senior staff member

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
		Quarterly	24	19.0	24.0	57.0	
		Monthly	27	21.4	27.0	84.0	
		Weekly	15	11.9	15.0	99.0	
		Daily	1	.8	1.0	100.0	
		Total	100	79.4	100.0		
	Missing	Don't know / can't say	10	7.9			
		System	16	12.7			
		Total	26	20.6			
	Total			126	100.0		
	Current member of an Animal Ethics Committee (AEC)	Valid	Never	7	14.6	18.4	18.4
Annually or less often			12	25.0	31.6	50.0	
Quarterly			5	10.4	13.2	63.2	
Monthly			8	16.7	21.1	84.2	
Weekly			5	10.4	13.2	97.4	
Missing		Don't know / can't say	1	2.1	2.6	100.0	
		System	38	79.2	100.0		
		Total	5	10.4			
Total			5	10.4			
Total			10	20.8			
Total			48	100.0			

q33f. with an ethics committee member

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Valid	Never	161	24.5	27.9	27.9	
		Annually or less often	233	35.4	40.4	68.3	
		Quarterly	119	18.1	20.6	88.9	
		Monthly	55	8.4	9.5	98.4	
		Weekly	8	1.2	1.4	99.8	
	Missing	Don't know / can't say	1	.2	.2	100.0	
		System	21	3.2			
		Total	60	9.1			
	Total			81	12.3		
	Total			658	100.0		
Mid-career researcher	Valid	Never	87	21.9	27.2	27.2	
		Annually or less often	124	31.2	38.8	65.9	
		Quarterly	53	13.4	16.6	82.5	
		Monthly	47	11.8	14.7	97.2	
		Weekly	9	2.3	2.8	100.0	
	Missing	Don't know / can't say	15	3.8			
		System	62	15.6			
		Total	77	19.4			
	Total			397	100.0		
	Junior researcher	Valid	Never	75	26.4	33.3	33.3
Annually or less often			84	29.6	37.3	70.7	
Quarterly			42	14.8	18.7	89.3	
Monthly			20	7.0	8.9	98.2	
Weekly			4	1.4	1.8	100.0	
Missing		Don't know / can't say	13	4.6			
		System	46	16.2			
		Total	59	20.8			
Total			284	100.0			
Research student		Valid	Never	41	27.5	39.4	39.4
	Annually or less often		41	27.5	39.4	78.8	
	Quarterly		14	9.4	13.5	92.3	
	Monthly		6	4.0	5.8	98.1	
	Weekly		2	1.3	1.9	100.0	
	Missing	Don't know / can't say	104	69.8	100.0		
		System	17	11.4			
		Total	28	18.8			
	Total			45	30.2		
	Total			149	100.0		
Representative of an institution	Missing	System	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0			

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q33g. with another member of the ethics committee

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Missing	System	658	100.0			
Mid-career researcher	Missing	System	397	100.0			
Junior researcher	Missing	System	284	100.0			
Research student	Missing	System	149	100.0			
Representative of an institution	Missing	System	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Never	3	2.4	2.6	2.6	
		Annually or less often	9	7.1	7.8	10.3	
		Quarterly	37	29.4	31.9	42.2	
		Monthly	58	46.0	50.0	92.2	
		Weekly	7	5.6	6.0	98.3	
		Daily	2	1.6	1.7	100.0	
		Total	116	92.1	100.0		
		Missing	System	5	4.0		
		Don't know / can't say	5	4.0			
	Total	10	7.9				
Total			126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Annually or less often	5	10.4	10.6	10.6	
		Quarterly	10	20.8	21.3	31.9	
		Monthly	26	54.2	55.3	87.2	
		Weekly	5	10.4	10.6	97.9	
		Daily	1	2.1	2.1	100.0	
		Total	47	97.9	100.0		
	Missing	Don't know / can't say	1	2.1			
Total			48	100.0			

q33h. with staff at my institutional research office or equivalent

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Missing	System	658	100.0			
Mid-career researcher	Missing	System	397	100.0			
Junior researcher	Missing	System	284	100.0			
Research student	Missing	System	149	100.0			
Representative of an institution	Valid	Never	4	3.8	4.5	4.5	
		Annually or less often	12	11.3	13.6	18.2	
		Quarterly	10	9.4	11.4	29.5	
		Monthly	21	19.8	23.9	53.4	
		Weekly	23	21.7	26.1	79.5	
		Daily	18	17.0	20.5	100.0	
		Total	88	83.0	100.0		
		Missing	System	15	14.2		
		Don't know / can't say	3	2.8			
	Total	18	17.0				
Total			106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Never	25	19.8	24.5	24.5	
		Annually or less often	17	13.5	16.7	41.2	
		Quarterly	14	11.1	13.7	54.9	
		Monthly	25	19.8	24.5	79.4	
		Weekly	19	15.1	18.6	98.0	
		Daily	2	1.6	2.0	100.0	
		Total	102	81.0	100.0		
		Missing	System	13	10.3		
		Don't know / can't say	11	8.7			
	Total	24	19.0				
Total			126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Never	9	18.8	22.0	22.0	
		Annually or less often	6	12.5	14.6	36.6	
		Quarterly	6	12.5	14.6	51.2	
		Monthly	14	29.2	34.1	85.4	
		Weekly	3	6.3	7.3	92.7	
		Daily	3	6.3	7.3	100.0	
		Total	41	85.4	100.0		
		Missing	System	4	8.3		
		Don't know / can't say	3	6.3			
	Total	7	14.6				
Total			48	100.0			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
C. Environment

q33i. with a librarian

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Valid	Never	473	71.9	82.0	82.0	
		Annually or less often	80	12.2	13.9	95.8	
		Quarterly	17	2.6	2.9	98.8	
		Monthly	6	.9	1.0	99.8	
		Weekly	1	.2	.2	100.0	
	Missing	Don't know / can't say	23	3.5			
		System	58	8.8			
		Total	81	12.3			
	Total		658	100.0			
	Mid-career researcher	Valid	Never	258	65.0	80.6	80.6
Annually or less often			44	11.1	13.8	94.4	
Quarterly			15	3.8	4.7	99.1	
Monthly			3	.8	.9	100.0	
Total			320	80.6	100.0		
Missing		Don't know / can't say	13	3.3			
		System	64	16.1			
		Total	77	19.4			
Total		397	100.0				
Junior researcher		Valid	Never	180	63.4	79.3	79.3
	Annually or less often		37	13.0	16.3	95.6	
	Quarterly		8	2.8	3.5	99.1	
	Monthly		2	.7	.9	100.0	
	Total		227	79.9	100.0		
	Missing	Don't know / can't say	10	3.5			
		System	47	16.5			
		Total	57	20.1			
	Total		284	100.0			
	Research student	Valid	Never	74	49.7	67.9	67.9
Annually or less often			28	18.8	25.7	93.6	
Quarterly			7	4.7	6.4	100.0	
Total			109	73.2	100.0		
Missing			Don't know / can't say	12	8.1		
		System	28	18.8			
		Total	40	26.8			
Total		149	100.0				
Representative of an institution		Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)		Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
C. Environment

q33j. with a colleague from another institution

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Never	51	7.8	8.7	8.7
		Annually or less often	215	32.7	36.6	45.3
		Quarterly	181	27.5	30.8	76.1
		Monthly	110	16.7	18.7	94.9
		Weekly	26	4.0	4.4	99.3
		Daily	4	.6	.7	100.0
		Total	587	89.2	100.0	
	Missing	Don't know / can't say	15	2.3		
		System	56	8.5		
		Total	71	10.8		
Total		658	100.0			
Mid-career researcher	Valid	Never	27	6.8	8.2	8.2
		Annually or less often	119	30.0	36.1	44.2
		Quarterly	104	26.2	31.5	75.8
		Monthly	60	15.1	18.2	93.9
		Weekly	18	4.5	5.5	99.4
		Daily	2	.5	.6	100.0
		Total	330	83.1	100.0	
	Missing	Don't know / can't say	4	1.0		
		System	63	15.9		
		Total	67	16.9		
Total		397	100.0			
Junior researcher	Valid	Never	47	16.5	19.9	19.9
		Annually or less often	73	25.7	30.9	50.8
		Quarterly	69	24.3	29.2	80.1
		Monthly	36	12.7	15.3	95.3
		Weekly	10	3.5	4.2	99.6
		Daily	1	.4	.4	100.0
		Total	236	83.1	100.0	
	Missing	Don't know / can't say	4	1.4		
		System	44	15.5		
		Total	48	16.9		
Total		284	100.0			
Research student	Valid	Never	40	26.8	35.7	35.7
		Annually or less often	29	19.5	25.9	61.6
		Quarterly	29	19.5	25.9	87.5
		Monthly	12	8.1	10.7	98.2
		Weekly	2	1.3	1.8	100.0
		Total	112	75.2	100.0	
		Missing	Don't know / can't say	9	6.0	
	System		28	18.8		
	Total		37	24.8		
	Total		149	100.0		
Representative of an institution	Valid	Never	9	8.5	10.6	10.6
		Annually or less often	26	24.5	30.6	41.2
		Quarterly	21	19.8	24.7	65.9
		Monthly	20	18.9	23.5	89.4
		Weekly	9	8.5	10.6	100.0
		Total	85	80.2	100.0	
		Missing	Don't know / can't say	6	5.7	
	System		15	14.2		
	Total		21	19.8		
	Total		106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Never	26	20.6	25.2	25.2
		Annually or less often	29	23.0	28.2	53.4
		Quarterly	30	23.8	29.1	82.5
		Monthly	14	11.1	13.6	96.1
		Weekly	3	2.4	2.9	99.0
		Daily	1	.8	1.0	100.0
		Total	103	81.7	100.0	
	Missing	Don't know / can't say	7	5.6		
		System	16	12.7		
		Total	23	18.3		
Total		126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Never	14	29.2	35.0	35.0
		Annually or less often	12	25.0	30.0	65.0
		Quarterly	5	10.4	12.5	77.5
		Monthly	9	18.8	22.5	100.0
		Total	40	83.3	100.0	
	Missing	Don't know / can't say	3	6.3		
		System	5	10.4		
		Total	8	16.7		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
C. Environment

q33j. with a colleague from another institution

q1. In what capacity are you participating in this survey?	Frequency	Percent	Valid Percent	Cumulative Percent
Total	48	100.0		

q33k. with a friend or relative

q1. In what capacity are you participating in this survey?	Frequency	Percent	Valid Percent	Cumulative Percent		
Senior researcher	Valid	Never	219	33.3	37.8	37.8
		Annually or less often	157	23.9	27.1	64.8
		Quarterly	82	12.5	14.1	79.0
		Monthly	73	11.1	12.6	91.6
		Weekly	42	6.4	7.2	98.8
		Daily	7	1.1	1.2	100.0
		Total	580	88.1	100.0	
	Missing	Don't know / can't say	21	3.2		
		System	57	8.7		
		Total	78	11.9		
	Total		658	100.0		
Mid-career researcher	Valid	Never	112	28.2	33.9	33.9
		Annually or less often	91	22.9	27.6	61.5
		Quarterly	60	15.1	18.2	79.7
		Monthly	44	11.1	13.3	93.0
		Weekly	23	5.8	7.0	100.0
		Total	330	83.1	100.0	
	Missing	Don't know / can't say	5	1.3		
		System	62	15.6		
		Total	67	16.9		
	Total		397	100.0		
Junior researcher	Valid	Never	99	34.9	42.3	42.3
		Annually or less often	45	15.8	19.2	61.5
		Quarterly	37	13.0	15.8	77.4
		Monthly	28	9.9	12.0	89.3
		Weekly	15	5.3	6.4	95.7
		Daily	10	3.5	4.3	100.0
		Total	234	82.4	100.0	
	Missing	Don't know / can't say	6	2.1		
		System	44	15.5		
		Total	50	17.6		
	Total		284	100.0		
Research student	Valid	Never	39	26.2	33.3	33.3
		Annually or less often	21	14.1	17.9	51.3
		Quarterly	22	14.8	18.8	70.1
		Monthly	20	13.4	17.1	87.2
		Weekly	14	9.4	12.0	99.1
		Daily	1	.7	.9	100.0
		Total	117	78.5	100.0	
	Missing	Don't know / can't say	4	2.7		
		System	28	18.8		
		Total	32	21.5		
	Total		149	100.0		
Representative of an institution	Valid	Never	24	22.6	28.6	28.6
		Annually or less often	24	22.6	28.6	57.1
		Quarterly	12	11.3	14.3	71.4
		Monthly	5	4.7	6.0	77.4
		Weekly	17	16.0	20.2	97.6
		Daily	2	1.9	2.4	100.0
		Total	84	79.2	100.0	
	Missing	Don't know / can't say	7	6.6		
		System	15	14.2		
		Total	22	20.8		
	Total		106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Never	29	23.0	26.6	26.6
		Annually or less often	28	22.2	25.7	52.3
		Quarterly	22	17.5	20.2	72.5
		Monthly	19	15.1	17.4	89.9
		Weekly	11	8.7	10.1	100.0
		Total	109	86.5	100.0	
	Missing	Don't know / can't say	3	2.4		
		System	14	11.1		
		Total	17	13.5		
	Total		126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Never	12	25.0	28.6	28.6
		Annually or less often	12	25.0	28.6	57.1
		Quarterly	9	18.8	21.4	78.6

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C. Environment

q33k. with a friend or relative

q1. In what capacity are you participating in this survey?		Frequency	Percent	Valid Percent	Cumulative Percent	
	Monthly	4	8.3	9.5	88.1	
	Weekly	4	8.3	9.5	97.6	
	Daily	1	2.1	2.4	100.0	
	Total	42	87.5	100.0		
	Missing	Don't know / can't say	3	6.3		
	System		3	6.3		
	Total	6	12.5			
Total		48	100.0			

q33l. with a member of the general public

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Never	256	38.9	44.4	44.4
		Annually or less often	216	32.8	37.5	81.9
		Quarterly	67	10.2	11.6	93.6
		Monthly	29	4.4	5.0	98.6
		Weekly	7	1.1	1.2	99.8
		Daily	1	.2	.2	100.0
	Missing	Don't know / can't say	25	3.8		
		System	57	8.7		
		Total	82	12.5		
	Total		658	100.0		
Mid-career researcher	Valid	Never	157	39.5	47.9	47.9
		Annually or less often	109	27.5	33.2	81.1
		Quarterly	41	10.3	12.5	93.6
		Monthly	19	4.8	5.8	99.4
		Weekly	2	.5	.6	100.0
		Total	328	82.6	100.0	
	Missing	Don't know / can't say	7	1.8		
		System	62	15.6		
		Total	69	17.4		
	Total		397	100.0		
Junior researcher	Valid	Never	124	43.7	54.6	54.6
		Annually or less often	56	19.7	24.7	79.3
		Quarterly	29	10.2	12.8	92.1
		Monthly	11	3.9	4.8	96.9
		Weekly	5	1.8	2.2	99.1
		Daily	2	.7	.9	100.0
	Missing	Don't know / can't say	13	4.6		
		System	44	15.5		
		Total	57	20.1		
	Total		284	100.0		
Research student	Valid	Never	68	45.6	62.4	62.4
		Annually or less often	26	17.4	23.9	86.2
		Quarterly	6	4.0	5.5	91.7
		Monthly	8	5.4	7.3	99.1
		Weekly	1	.7	.9	100.0
		Total	109	73.2	100.0	
	Missing	Don't know / can't say	12	8.1		
		System	28	18.8		
		Total	40	26.8		
	Total		149	100.0		
Representative of an institution	Valid	Never	26	24.5	31.0	31.0
		Annually or less often	29	27.4	34.5	65.5
		Quarterly	12	11.3	14.3	79.8
		Monthly	12	11.3	14.3	94.0
		Weekly	5	4.7	6.0	100.0
		Total	84	79.2	100.0	
	Missing	Don't know / can't say	7	6.6		
		System	15	14.2		
		Total	22	20.8		
	Total		106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Never	38	30.2	36.2	36.2
		Annually or less often	38	30.2	36.2	72.4
		Quarterly	17	13.5	16.2	88.6
		Monthly	9	7.1	8.6	97.1
		Weekly	3	2.4	2.9	100.0
		Total	105	83.3	100.0	

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C. Environment

q33i. with a member of the general public

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Current member of an Animal Ethics Committee (AEC)	Missing	Don't know / can't say	5	4.0			
		System	16	12.7			
		Total	21	16.7			
	Total			126	100.0		
	Valid	Never	17	35.4	42.5	42.5	
		Annually or less often	10	20.8	25.0	67.5	
		Quarterly	8	16.7	20.0	87.5	
		Monthly	5	10.4	12.5	100.0	
		Total	40	83.3	100.0		
	Missing	Don't know / can't say	5	10.4			
System		3	6.3				
Total		8	16.7				
Total			48	100.0			

q34. Do you have informal discussions about responsible research practices (e.g. after work, in social situations)?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Yes	435	66.1	71.7	71.7
		No	144	21.9	23.7	95.4
		Not relevant to my role	9	1.4	1.5	96.9
		Don't know / can't say	19	2.9	3.1	100.0
		Total	607	92.2	100.0	
	Missing	System	51	7.8		
Total			658	100.0		
Mid-career researcher	Valid	Yes	243	61.2	71.3	71.3
		No	87	21.9	25.5	96.8
		Not relevant to my role	3	.8	.9	97.7
		Don't know / can't say	8	2.0	2.3	100.0
		Total	341	85.9	100.0	
	Missing	System	56	14.1		
Total			397	100.0		
Junior researcher	Valid	Yes	165	58.1	68.2	68.2
		No	69	24.3	28.5	96.7
		Not relevant to my role	1	.4	.4	97.1
		Don't know / can't say	7	2.5	2.9	100.0
		Total	242	85.2	100.0	
	Missing	System	42	14.8		
Total			284	100.0		
Research student	Valid	Yes	73	49.0	58.4	58.4
		No	37	24.8	29.6	88.0
		Not relevant to my role	7	4.7	5.6	93.6
		Don't know / can't say	8	5.4	6.4	100.0
		Total	125	83.9	100.0	
	Missing	System	24	16.1		
Total			149	100.0		
Representative of an institution	Valid	Yes	50	47.2	54.9	54.9
		No	30	28.3	33.0	87.9
		Not relevant to my role	9	8.5	9.9	97.8
		Don't know / can't say	2	1.9	2.2	100.0
		Total	91	85.8	100.0	
	Missing	System	15	14.2		
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Yes	70	55.6	57.4	57.4
		No	32	25.4	26.2	83.6
		Not relevant to my role	19	15.1	15.6	99.2
		Don't know / can't say	1	.8	.8	100.0
		Total	122	96.8	100.0	
	Missing	System	4	3.2		
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Yes	25	52.1	53.2	53.2
		No	12	25.0	25.5	78.7
		Not relevant to my role	9	18.8	19.1	97.9
		Don't know / can't say	1	2.1	2.1	100.0
		Total	47	97.9	100.0	
	Missing	System	1	2.1		
Total			48	100.0		

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C. Environment

q35. Have you wanted to have discussions about responsible research practices but felt unable to do so?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Yes	67	10.2	11.0	11.0
		No	541	82.2	89.0	100.0
		Total	608	92.4	100.0	
	Missing	System	50	7.6		
Total			658	100.0		
Mid-career researcher	Valid	Yes	50	12.6	14.7	14.7
		No	289	72.8	85.3	100.0
		Total	339	85.4	100.0	
	Missing	System	58	14.6		
Total			397	100.0		
Junior researcher	Valid	Yes	53	18.7	21.9	21.9
		No	189	66.5	78.1	100.0
		Total	242	85.2	100.0	
	Missing	System	42	14.8		
Total			284	100.0		
Research student	Valid	Yes	30	20.1	24.2	24.2
		No	94	63.1	75.8	100.0
		Total	124	83.2	100.0	
	Missing	System	25	16.8		
Total			149	100.0		
Representative of an institution	Valid	Yes	15	14.2	16.5	16.5
		No	76	71.7	83.5	100.0
		Total	91	85.8	100.0	
	Missing	System	15	14.2		
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Yes	19	15.1	16.0	16.0
		No	100	79.4	84.0	100.0
		Total	119	94.4	100.0	
	Missing	System	7	5.6		
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Yes	13	27.1	27.1	27.1
		No	35	72.9	72.9	100.0
		Total	48	100.0	100.0	

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C. Environment

q36mr. At what stages do you generally discuss responsible research practices with your supervisors / senior colleagues / senior administrators? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	When ethics / grant applications are being prepared	420	69.0%
		When papers are being prepared for publication	418	68.6%
		During annual career development sessions	161	26.4%
		At regular research group meetings	432	70.9%
		When data analysis is being discussed	456	74.9%
		When I first started work / study, but not since	7	1.1%
		Other	51	8.4%
		Never	20	3.3%
		Don't know / can't say	13	2.1%
		Number of Respondents		
Mid-career researcher	Valid	When ethics / grant applications are being prepared	234	68.6%
		When papers are being prepared for publication	241	70.7%
		During annual career development sessions	80	23.5%
		At regular research group meetings	237	69.5%
		When data analysis is being discussed	277	81.2%
		When I first started work / study, but not since	1	0.3%
		Other	18	5.3%
		Never	9	2.6%
		Don't know / can't say	4	1.2%
		Number of Respondents		
Junior researcher	Valid	When ethics / grant applications are being prepared	180	74.4%
		When papers are being prepared for publication	156	64.5%
		During annual career development sessions	49	20.2%
		At regular research group meetings	157	64.9%
		When data analysis is being discussed	190	78.5%
		When I first started work / study, but not since	1	0.4%
		Other	16	6.6%
		Never	4	1.7%
		Don't know / can't say	4	1.7%
		Number of Respondents		
Research student	Valid	When ethics / grant applications are being prepared	80	64.5%
		When papers are being prepared for publication	72	58.1%
		During annual career development sessions	25	20.2%
		At regular research group meetings	71	57.3%
		When data analysis is being discussed	87	70.2%
		When I first started work / study, but not since	7	5.6%
		Other	5	4.0%
		Never	2	1.6%
		Don't know / can't say	3	2.4%
		Number of Respondents		
Representative of an institution	Valid	When ethics / grant applications are being prepared		
		When papers are being prepared for publication		
		During annual career development sessions		
		At regular research group meetings		
		When data analysis is being discussed		
		When I first started work / study, but not since		
		Other		
		Never		
		Don't know / can't say		
		Number of Respondents		
Current member of a Human Research Ethics Committee (HREC)	Valid	When ethics / grant applications are being prepared		
		When papers are being prepared for publication		
		During annual career development sessions		
		At regular research group meetings		
		When data analysis is being discussed		
		When I first started work / study, but not since		
		Other		
		Never		
		Don't know / can't say		
		Number of Respondents		
Current member of an Animal Ethics Committee (AEC)	Valid	When ethics / grant applications are being prepared		
		When papers are being prepared for publication		
		During annual career development sessions		
		At regular research group meetings		
		When data analysis is being discussed		
		When I first started work / study, but not since		

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C. Environment

q36m. At what stages do you generally discuss responsible research practices with your supervisors / senior colleagues / senior administrators? (Multiple Response)

q1. In what capacity are you participating in this survey?	Frequency	% of respondents
Other		
Never		
Don't know / can't say		
Number of Respondents		

q37a. I have easy access to an individual(s) with appropriate expertise that I can ask for advice about responsible research practices

q1. In what capacity are you participating in this survey?	Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Valid	Strongly disagree	9	1.4	1.5
		Disagree	29	4.4	5.0
		Neither agree nor disagree	54	8.2	9.2
		Agree	292	44.4	50.0
		Strongly agree	200	30.4	34.2
		Total	584	88.8	100.0
	Missing	Don't know / not applicable	12	1.8	
	System	62	9.4		
	Total	74	11.2		
	Total	658	100.0		
Mid-career researcher	Valid	Strongly disagree	7	1.8	2.1
		Disagree	26	6.5	8.0
		Neither agree nor disagree	36	9.1	11.0
		Agree	153	38.5	46.8
		Strongly agree	105	26.4	32.1
		Total	327	82.4	100.0
	Missing	System	70	17.6	
	Total	397	100.0		
Junior researcher	Valid	Strongly disagree	5	1.8	2.2
		Disagree	25	8.8	11.0
		Neither agree nor disagree	21	7.4	9.3
		Agree	97	34.2	42.7
		Strongly agree	79	27.8	34.8
		Total	227	79.9	100.0
	Missing	Don't know / not applicable	2	.7	
	System	55	19.4		
	Total	57	20.1		
	Total	284	100.0		
Research student	Valid	Strongly disagree	4	2.7	3.5
		Disagree	8	5.4	7.0
		Neither agree nor disagree	12	8.1	10.4
		Agree	44	29.5	38.3
		Strongly agree	47	31.5	40.9
		Total	115	77.2	100.0
	Missing	Don't know / not applicable	2	1.3	
	System	32	21.5		
	Total	34	22.8		
	Total	149	100.0		
Representative of an institution	Valid	Disagree	3	2.8	3.6
		Neither agree nor disagree	6	5.7	7.2
		Agree	29	27.4	34.9
		Strongly agree	45	42.5	54.2
		Total	83	78.3	100.0
		Missing	Don't know / not applicable	4	3.8
		System	19	17.9	
	Total	23	21.7		
	Total	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Strongly disagree	3	2.4	2.5
		Disagree	5	4.0	4.2
		Neither agree nor disagree	10	7.9	8.5
		Agree	41	32.5	34.7
		Strongly agree	59	46.8	50.0
		Total	118	93.7	100.0
	Missing	Don't know / not applicable	2	1.6	
	System	6	4.8		
	Total	8	6.3		
	Total	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Disagree	3	6.3	6.5
		Neither agree nor disagree	4	8.3	8.7
		Agree	18	37.5	39.1
		Strongly agree	21	43.8	45.7
		Total	46	95.8	100.0
		Missing	Don't know / not applicable	2	4.2
		Total	48	100.0	

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q37b. I have easy access to my institution's policies / guidelines about responsible research practices

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	5	.8	.9	.9
		Disagree	24	3.6	4.1	4.9
		Neither agree nor disagree	46	7.0	7.8	12.8
		Agree	288	43.8	49.0	61.7
		Strongly agree	225	34.2	38.3	100.0
		Total	588	89.4	100.0	
	Missing	Don't know / not applicable	7	1.1		
	System	63	9.6			
	Total	70	10.6			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	3	.8	.9	.9
		Disagree	17	4.3	5.2	6.2
		Neither agree nor disagree	37	9.3	11.4	17.6
		Agree	164	41.3	50.6	68.2
		Strongly agree	103	25.9	31.8	100.0
		Total	324	81.6	100.0	
	Missing	Don't know / not applicable	3	.8		
	System	70	17.6			
	Total	73	18.4			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	3	1.1	1.4	1.4
		Disagree	13	4.6	5.9	7.2
		Neither agree nor disagree	33	11.6	14.9	22.2
		Agree	93	32.7	42.1	64.3
		Strongly agree	79	27.8	35.7	100.0
		Total	221	77.8	100.0	
	Missing	Don't know / not applicable	9	3.2		
	System	54	19.0			
	Total	63	22.2			
Total			284	100.0		
Research student	Valid	Disagree	3	2.0	2.7	2.7
		Neither agree nor disagree	17	11.4	15.0	17.7
		Agree	53	35.6	46.9	64.6
		Strongly agree	40	26.8	35.4	100.0
		Total	113	75.8	100.0	
		Missing	Don't know / not applicable	4	2.7	
		System	32	21.5		
	Total	36	24.2			
Total			149	100.0		
Representative of an institution	Valid	Strongly disagree	1	.9	1.2	1.2
		Disagree	5	4.7	5.9	7.1
		Neither agree nor disagree	3	2.8	3.5	10.6
		Agree	20	18.9	23.5	34.1
		Strongly agree	56	52.8	65.9	100.0
		Total	85	80.2	100.0	
	Missing	Don't know / not applicable	2	1.9		
	System	19	17.9			
	Total	21	19.8			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Strongly disagree	3	2.4	2.7	2.7
		Disagree	3	2.4	2.7	5.4
		Neither agree nor disagree	6	4.8	5.4	10.8
		Agree	45	35.7	40.5	51.4
		Strongly agree	54	42.9	48.6	100.0
		Total	111	88.1	100.0	
	Missing	Don't know / not applicable	8	6.3		
	System	7	5.6			
	Total	15	11.9			
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Neither agree nor disagree	4	8.3	9.1	9.1
		Agree	16	33.3	36.4	45.5
		Strongly agree	24	50.0	54.5	100.0
		Total	44	91.7	100.0	
	Missing	Don't know / not applicable	4	8.3		
	Total		48	100.0		

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C. Environment

q37c. The regulatory committees that review my research (e.g. ethics committees) understand the kind of research I do

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	18	2.7	3.1	3.1
		Disagree	58	8.8	10.0	13.1
		Neither agree nor disagree	113	17.2	19.5	32.6
		Agree	295	44.8	50.9	83.6
		Strongly agree	95	14.4	16.4	100.0
		Total	579	88.0	100.0	
	Missing	Don't know / not applicable	14	2.1		
	System	65	9.9			
	Total	79	12.0			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	16	4.0	5.1	5.1
		Disagree	31	7.8	9.8	14.9
		Neither agree nor disagree	65	16.4	20.6	35.4
		Agree	155	39.0	49.1	84.5
		Strongly agree	49	12.3	15.5	100.0
		Total	316	79.6	100.0	
	Missing	Don't know / not applicable	10	2.5		
	System	71	17.9			
	Total	81	20.4			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	6	2.1	2.9	2.9
		Disagree	23	8.1	11.0	13.8
		Neither agree nor disagree	44	15.5	21.0	34.8
		Agree	92	32.4	43.8	78.6
		Strongly agree	45	15.8	21.4	100.0
		Total	210	73.9	100.0	
	Missing	Don't know / not applicable	18	6.3		
	System	56	19.7			
	Total	74	26.1			
Total			284	100.0		
Research student	Valid	Strongly disagree	3	2.0	2.9	2.9
		Disagree	9	6.0	8.7	11.7
		Neither agree nor disagree	15	10.1	14.6	26.2
		Agree	50	33.6	48.5	74.8
		Strongly agree	26	17.4	25.2	100.0
		Total	103	69.1	100.0	
	Missing	Don't know / not applicable	14	9.4		
	System	32	21.5			
	Total	46	30.9			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q37d. I have access to sufficient material resources (e.g. space, equipment or technology) to conduct my research

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	19	2.9	3.2	3.2
		Disagree	74	11.2	12.5	15.7
		Neither agree nor disagree	67	10.2	11.3	26.9
		Agree	290	44.1	48.8	75.8
		Strongly agree	144	21.9	24.2	100.0
	Total		594	90.3	100.0	
	Missing	Don't know / not applicable	1	.2		
		System	63	9.6		
		Total	64	9.7		
Total		658	100.0			
Mid-career researcher	Valid	Strongly disagree	12	3.0	3.7	3.7
		Disagree	36	9.1	11.0	14.7
		Neither agree nor disagree	40	10.1	12.3	27.0
		Agree	169	42.6	51.8	78.8
		Strongly agree	69	17.4	21.2	100.0
	Total		326	82.1	100.0	
	Missing	Don't know / not applicable	1	.3		
		System	70	17.6		
		Total	71	17.9		
Total		397	100.0			
Junior researcher	Valid	Strongly disagree	6	2.1	2.6	2.6
		Disagree	26	9.2	11.5	14.1
		Neither agree nor disagree	22	7.7	9.7	23.8
		Agree	115	40.5	50.7	74.4
		Strongly agree	58	20.4	25.6	100.0
	Total		227	79.9	100.0	
	Missing	Don't know / not applicable	2	.7		
		System	55	19.4		
		Total	57	20.1		
Total		284	100.0			
Research student	Valid	Strongly disagree	4	2.7	3.4	3.4
		Disagree	11	7.4	9.4	12.8
		Neither agree nor disagree	8	5.4	6.8	19.7
		Agree	57	38.3	48.7	68.4
		Strongly agree	37	24.8	31.6	100.0
	Total		117	78.5	100.0	
	Missing	System	32	21.5		
		Total	149	100.0		
	Representative of an institution	Missing	System	106	100.0	
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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C. Environment

q37e. I find it difficult to conduct research in a responsible manner because of insufficient access to human resources (e.g. statistical expertise, technical / administrative support)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	161	24.5	27.3	27.3
		Disagree	244	37.1	41.4	68.6
		Neither agree nor disagree	93	14.1	15.8	84.4
		Agree	65	9.9	11.0	95.4
		Strongly agree	27	4.1	4.6	100.0
		Total	590	89.7	100.0	
	Missing	Don't know / not applicable	5	.8		
	System	63	9.6			
	Total	68	10.3			
	Total	658	100.0			
Mid-career researcher	Valid	Strongly disagree	68	17.1	21.1	21.1
		Disagree	146	36.8	45.3	66.5
		Neither agree nor disagree	49	12.3	15.2	81.7
		Agree	45	11.3	14.0	95.7
		Strongly agree	14	3.5	4.3	100.0
		Total	322	81.1	100.0	
	Missing	Don't know / not applicable	4	1.0		
	System	71	17.9			
	Total	75	18.9			
	Total	397	100.0			
Junior researcher	Valid	Strongly disagree	36	12.7	15.8	15.8
		Disagree	95	33.5	41.7	57.5
		Neither agree nor disagree	46	16.2	20.2	77.6
		Agree	37	13.0	16.2	93.9
		Strongly agree	14	4.9	6.1	100.0
		Total	228	80.3	100.0	
	Missing	Don't know / not applicable	1	.4		
	System	55	19.4			
	Total	56	19.7			
	Total	284	100.0			
Research student	Valid	Strongly disagree	23	15.4	19.8	19.8
		Disagree	51	34.2	44.0	63.8
		Neither agree nor disagree	17	11.4	14.7	78.4
		Agree	23	15.4	19.8	98.3
		Strongly agree	2	1.3	1.7	100.0
		Total	116	77.9	100.0	
	Missing	Don't know / not applicable	1	.7		
	System	32	21.5			
	Total	33	22.1			
	Total	149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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C. Environment

q37f. Senior administrators in my institution support data and code sharing when publishing research results

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	14	2.1	2.8	2.8
		Disagree	34	5.2	6.7	9.4
		Neither agree nor disagree	122	18.5	24.0	33.5
		Agree	252	38.3	49.6	83.1
		Strongly agree	86	13.1	16.9	100.0
		Total	508	77.2	100.0	
	Missing	Don't know / not applicable	88	13.4		
	System	62	9.4			
	Total	150	22.8			
	Total	658	100.0			
Mid-career researcher	Valid	Strongly disagree	5	1.3	1.8	1.8
		Disagree	29	7.3	10.2	12.0
		Neither agree nor disagree	94	23.7	33.1	45.1
		Agree	126	31.7	44.4	89.4
		Strongly agree	30	7.6	10.6	100.0
		Total	284	71.5	100.0	
	Missing	Don't know / not applicable	43	10.8		
	System	70	17.6			
	Total	113	28.5			
	Total	397	100.0			
Junior researcher	Valid	Strongly disagree	6	2.1	3.4	3.4
		Disagree	26	9.2	14.5	17.9
		Neither agree nor disagree	43	15.1	24.0	41.9
		Agree	69	24.3	38.5	80.4
		Strongly agree	35	12.3	19.6	100.0
		Total	179	63.0	100.0	
	Missing	Don't know / not applicable	50	17.6		
	System	55	19.4			
	Total	105	37.0			
	Total	284	100.0			
Research student	Valid	Strongly disagree	1	.7	1.3	1.3
		Disagree	7	4.7	8.9	10.1
		Neither agree nor disagree	24	16.1	30.4	40.5
		Agree	37	24.8	46.8	87.3
		Strongly agree	10	6.7	12.7	100.0
		Total	79	53.0	100.0	
	Missing	Don't know / not applicable	38	25.5		
	System	32	21.5			
	Total	70	47.0			
	Total	149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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C. Environment

q37g. Senior administrators in my institution support open access publishing when publishing research results

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	21	3.2	3.9	3.9
		Disagree	72	10.9	13.3	17.2
		Neither agree nor disagree	156	23.7	28.8	45.9
		Agree	217	33.0	40.0	86.0
		Strongly agree	76	11.6	14.0	100.0
		Total	542	82.4	100.0	
	Missing	Don't know / not applicable	53	8.1		
	System	63	9.6			
	Total	116	17.6			
	Total	658	100.0			
Mid-career researcher	Valid	Strongly disagree	13	3.3	4.3	4.3
		Disagree	41	10.3	13.5	17.8
		Neither agree nor disagree	104	26.2	34.3	52.1
		Agree	112	28.2	37.0	89.1
		Strongly agree	33	8.3	10.9	100.0
		Total	303	76.3	100.0	
	Missing	Don't know / not applicable	24	6.0		
	System	70	17.6			
	Total	94	23.7			
	Total	397	100.0			
Junior researcher	Valid	Strongly disagree	11	3.9	5.6	5.6
		Disagree	26	9.2	13.3	18.9
		Neither agree nor disagree	59	20.8	30.1	49.0
		Agree	70	24.6	35.7	84.7
		Strongly agree	30	10.6	15.3	100.0
		Total	196	69.0	100.0	
	Missing	Don't know / not applicable	33	11.6		
	System	55	19.4			
	Total	88	31.0			
	Total	284	100.0			
Research student	Valid	Strongly disagree	1	.7	1.2	1.2
		Disagree	6	4.0	7.4	8.6
		Neither agree nor disagree	26	17.4	32.1	40.7
		Agree	32	21.5	39.5	80.2
		Strongly agree	16	10.7	19.8	100.0
		Total	81	54.4	100.0	
	Missing	Don't know / not applicable	36	24.2		
	System	32	21.5			
	Total	68	45.6			
	Total	149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q38m. Which of the following information is required in proposals that your ethics committee considers? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	How the number of participants / animals per experimental cohort was determined How statistical power was determined Whether participants / animals are to be randomly allocated to experimental cohorts Whether inclusion or exclusion criteria will be applied How dropouts / losses will be accounted for in the analysis plan Whether outcome assessment will be blinded Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, siRNAs, small molecules None of the above Don't know / can't say		
Number of Respondents				
Mid-career researcher	Valid	How the number of participants / animals per experimental cohort was determined How statistical power was determined Whether participants / animals are to be randomly allocated to experimental cohorts Whether inclusion or exclusion criteria will be applied How dropouts / losses will be accounted for in the analysis plan Whether outcome assessment will be blinded Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, siRNAs, small molecules None of the above Don't know / can't say		
Number of Respondents				
Junior researcher	Valid	How the number of participants / animals per experimental cohort was determined How statistical power was determined Whether participants / animals are to be randomly allocated to experimental cohorts Whether inclusion or exclusion criteria will be applied How dropouts / losses will be accounted for in the analysis plan Whether outcome assessment will be blinded Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, siRNAs, small molecules None of the above Don't know / can't say		
Number of Respondents				
Research student	Valid	How the number of participants / animals per experimental cohort was determined How statistical power was determined Whether participants / animals are to be randomly allocated to experimental cohorts Whether inclusion or exclusion criteria will be applied How dropouts / losses will be accounted for in the analysis plan Whether outcome assessment will be blinded Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, siRNAs, small molecules None of the above Don't know / can't say		
Number of Respondents				
Representative of an institution	Valid	How the number of participants / animals per experimental cohort was determined How statistical power was determined Whether participants / animals are to be randomly allocated to experimental cohorts Whether inclusion or exclusion criteria will be applied How dropouts / losses will be accounted for in the analysis plan Whether outcome assessment will be blinded Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, siRNAs, small molecules		

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q38mr. Which of the following information is required in proposals that your ethics committee considers? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents	
Current member of a Human Research Ethics Committee (HREC)	Valid	None of the above			
		Don't know / can't say			
		Number of Respondents			
		How the number of participants / animals per experimental cohort was determined	83	69.7%	
		How statistical power was determined	70	58.8%	
		Whether participants / animals are to be randomly allocated to experimental cohorts	79	66.4%	
		Whether inclusion or exclusion criteria will be applied	105	88.2%	
		How dropouts / losses will be accounted for in the analysis plan	57	47.9%	
		Whether outcome assessment will be blinded	71	59.7%	
		Inclusion of positive and negative controls	50	42.0%	
		Validation of tools or reagents such as antibodies, siRNAs, small molecules	49	41.2%	
		None of the above	5	4.2%	
Don't know / can't say	4	3.4%			
Number of Respondents		119	100.0%		
Current member of an Animal Ethics Committee (AEC)	Valid	How the number of participants / animals per experimental cohort was determined	42	87.5%	
		How statistical power was determined	35	72.9%	
		Whether participants / animals are to be randomly allocated to experimental cohorts	24	50.0%	
		Whether inclusion or exclusion criteria will be applied	16	33.3%	
		How dropouts / losses will be accounted for in the analysis plan	24	50.0%	
		Whether outcome assessment will be blinded	13	27.1%	
		Inclusion of positive and negative controls	28	58.3%	
		Validation of tools or reagents such as antibodies, siRNAs, small molecules	20	41.7%	
		None of the above	1	2.1%	
		Don't know / can't say	3	6.3%	
		Number of Respondents		48	100.0%

q39mr. Which of the following information is routinely provided in proposals that your ethics committee considers? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents	
Senior researcher	Valid	How the number of participants / animals per experimental cohort was determined			
		How statistical power was determined			
		Whether participants / animals are to be randomly allocated to experimental cohorts			
		Whether inclusion or exclusion criteria will be applied			
		How dropouts / losses will be accounted for in the analysis plan			
		Whether outcome assessment will be blinded			
		Inclusion of positive and negative controls			
		Validation of tools or reagents such as antibodies, siRNAs, small molecules			
		None of the above			
		Don't know / can't say			
		Number of Respondents			
		Mid-career researcher	Valid	How the number of participants / animals per experimental cohort was determined	
How statistical power was determined					
Whether participants / animals are to be randomly allocated to experimental cohorts					
Whether inclusion or exclusion criteria will be applied					
How dropouts / losses will be accounted for in the analysis plan					
Whether outcome assessment will be blinded					
Inclusion of positive and negative controls					
Validation of tools or reagents such as antibodies, siRNAs, small molecules					
None of the above					
Don't know / can't say					
Number of Respondents					
Junior researcher	Valid			How the number of participants / animals per experimental cohort was determined	
		How statistical power was determined			

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q39mr. Which of the following information is routinely provided in proposals that your ethics committee considers? (Multiple Response)

q1. In what capacity are you participating in this survey?		Frequency	% of respondents
Research student		Whether participants / animals are to be randomly allocated to experimental cohorts Whether inclusion or exclusion criteria will be applied How dropouts / losses will be accounted for in the analysis plan Whether outcome assessment will be blinded Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, siRNAs, small molecules None of the above Don't know / can't say	
	Number of Respondents		
Representative of an institution	Valid	How the number of participants / animals per experimental cohort was determined How statistical power was determined Whether participants / animals are to be randomly allocated to experimental cohorts Whether inclusion or exclusion criteria will be applied How dropouts / losses will be accounted for in the analysis plan Whether outcome assessment will be blinded Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, siRNAs, small molecules None of the above Don't know / can't say	
	Number of Respondents		
Current member of a Human Research Ethics Committee (HREC)	Valid	How the number of participants / animals per experimental cohort was determined How statistical power was determined Whether participants / animals are to be randomly allocated to experimental cohorts Whether inclusion or exclusion criteria will be applied How dropouts / losses will be accounted for in the analysis plan Whether outcome assessment will be blinded Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, siRNAs, small molecules None of the above Don't know / can't say	78 66.1% 65 55.1% 80 67.8% 107 90.7% 52 44.1% 61 51.7% 48 40.7% 45 38.1% 1 0.8% 3 2.5%
	Number of Respondents		118 100.0%
Current member of an Animal Ethics Committee (AEC)	Valid	How the number of participants / animals per experimental cohort was determined How statistical power was determined Whether participants / animals are to be randomly allocated to experimental cohorts Whether inclusion or exclusion criteria will be applied How dropouts / losses will be accounted for in the analysis plan Whether outcome assessment will be blinded Inclusion of positive and negative controls Validation of tools or reagents such as antibodies, siRNAs, small molecules None of the above Don't know / can't say	41 85.4% 32 66.7% 32 66.7% 20 41.7% 24 50.0% 15 31.3% 29 60.4% 15 31.3% 1 2.1% 2 4.2%
	Number of Respondents		48 100.0%

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q40mr. How are you assured about the quality of the design and methods for a project outlined in applications considered by your committee?
(Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	I trust the expertise of other members of the ethics committee I have sufficient expertise to assess these aspects of an application Independent external review Independent internal (institutional) peer review Peer review by a funding body I assume these aspects of the applications are appropriate if they are before the committee Other		
Number of Respondents				
Mid-career researcher	Valid	I trust the expertise of other members of the ethics committee I have sufficient expertise to assess these aspects of an application Independent external review Independent internal (institutional) peer review Peer review by a funding body I assume these aspects of the applications are appropriate if they are before the committee Other		
Number of Respondents				
Junior researcher	Valid	I trust the expertise of other members of the ethics committee I have sufficient expertise to assess these aspects of an application Independent external review Independent internal (institutional) peer review Peer review by a funding body I assume these aspects of the applications are appropriate if they are before the committee Other		
Number of Respondents				
Research student	Valid	I trust the expertise of other members of the ethics committee I have sufficient expertise to assess these aspects of an application Independent external review Independent internal (institutional) peer review Peer review by a funding body I assume these aspects of the applications are appropriate if they are before the committee Other		
Number of Respondents				
Representative of an institution	Valid	I trust the expertise of other members of the ethics committee I have sufficient expertise to assess these aspects of an application Independent external review Independent internal (institutional) peer review Peer review by a funding body I assume these aspects of the applications are appropriate if they are before the committee Other		
Number of Respondents				
Current member of a Human Research Ethics Committee (HREC)	Valid	I trust the expertise of other members of the ethics committee	82	69.5%
		I have sufficient expertise to assess these aspects of an application	59	50.0%
		Independent external review	29	24.6%
		Independent internal (institutional) peer review	57	48.3%
		Peer review by a funding body	35	29.7%
		I assume these aspects of the applications are appropriate if they are before the committee	24	20.3%
		Other	8	6.8%
Number of Respondents			118	100.0%
Current member of an Animal Ethics Committee (AEC)	Valid	I trust the expertise of other members of the ethics committee	40	83.3%
		I have sufficient expertise to assess these aspects of an application	16	33.3%
		Independent external review	4	8.3%
		Independent internal (institutional) peer review	13	27.1%
		Peer review by a funding body	15	31.3%
		I assume these aspects of the applications are appropriate if they are before the committee	10	20.8%
		Other	3	6.3%

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q40mr. How are you assured about the quality of the design and methods for a project outlined in applications considered by your committee?
(Multiple Response)

q1. In what capacity are you participating in this survey?	Frequency	% of respondents
Number of Respondents	48	100.0%

q43mr. How does your institution offer / how have you received education and training about responsible research practices? (Multiple Response)

q1. In what capacity are you participating in this survey?	Frequency	% of respondents		
Senior researcher	Valid	As part of undergraduate courses As part of postgraduate courses Training by supervisor / mentor Mandatory institutional training (including induction and refresher training) Non-mandatory institutional training (including induction and refresher training) Ad hoc training Attendance at external conferences / workshops etc. My institution does not offer training I don't need training I have never received such training Other	133 5 334 380 180 308 262 4 1 28 40	22.3% 0.8% 56.0% 63.8% 30.2% 51.7% 44.0% 0.7% 0.2% 4.7% 6.7%
Number of Respondents		596	100.0%	
Mid-career researcher	Valid	As part of undergraduate courses As part of postgraduate courses Training by supervisor / mentor Mandatory institutional training (including induction and refresher training) Non-mandatory institutional training (including induction and refresher training) Ad hoc training Attendance at external conferences / workshops etc. My institution does not offer training I don't need training I have never received such training Other	103 6 192 212 102 142 139 1 1 10 20	31.7% 1.8% 59.1% 65.2% 31.4% 43.7% 42.8% 0.3% 0.3% 3.1% 6.2%
Number of Respondents		325	100.0%	
Junior researcher	Valid	As part of undergraduate courses As part of postgraduate courses Training by supervisor / mentor Mandatory institutional training (including induction and refresher training) Non-mandatory institutional training (including induction and refresher training) Ad hoc training Attendance at external conferences / workshops etc. My institution does not offer training I don't need training I have never received such training Other	82 2 129 146 56 91 87 2 5 13	36.0% 0.9% 56.6% 64.0% 24.6% 39.9% 38.2% 0.9% 2.2% 5.7%
Number of Respondents		228	100.0%	
Research student	Valid	As part of undergraduate courses As part of postgraduate courses Training by supervisor / mentor Mandatory institutional training (including induction and refresher training) Non-mandatory institutional training (including induction and refresher training) Ad hoc training Attendance at external conferences / workshops etc. My institution does not offer training I don't need training I have never received such training Other	54 1 64 80 24 29 36 7 2	46.6% 0.9% 55.2% 69.0% 20.7% 25.0% 31.0% 6.0% 1.7%
Number of Respondents		116	100.0%	
Representative of an institution	Valid	As part of undergraduate courses As part of postgraduate courses Training by supervisor / mentor Mandatory institutional training (including induction and refresher training) Non-mandatory institutional training (including induction and refresher training) Ad hoc training	20 58 53 38 53	24.4% 70.7% 64.6% 46.3% 64.6%

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q43mr. How does your institution offer / how have you received education and training about responsible research practices? (Multiple Response)

q1. In what capacity are you participating in this survey?		Frequency	% of respondents		
Current member of a Human Research Ethics Committee (HREC)		Attendance at external conferences / workshops etc.	46	56.1%	
		My institution does not offer training	1	1.2%	
		I don't need training			
		I have never received such training			
		Other	7	8.5%	
	Number of Respondents		82	100.0%	
	Valid		As part of undergraduate courses	33	27.7%
			As part of postgraduate courses	5	4.2%
			Training by supervisor / mentor	46	38.7%
			Mandatory institutional training (including induction and refresher training)	48	40.3%
			Non-mandatory institutional training (including induction and refresher training)	48	40.3%
Ad hoc training			56	47.1%	
Attendance at external conferences / workshops etc.			72	60.5%	
My institution does not offer training			1	0.8%	
I don't need training					
I have never received such training					
					Other
Number of Respondents		119	100.0%		
Current member of an Animal Ethics Committee (AEC)	Valid	As part of undergraduate courses	6	12.8%	
		As part of postgraduate courses	1	2.1%	
		Training by supervisor / mentor	9	19.1%	
		Mandatory institutional training (including induction and refresher training)	21	44.7%	
		Non-mandatory institutional training (including induction and refresher training)	13	27.7%	
		Ad hoc training	13	27.7%	
		Attendance at external conferences / workshops etc.	29	61.7%	
		My institution does not offer training	1	2.1%	
		I don't need training			
		I have never received such training	7	14.9%	
		Other	5	10.6%	
Number of Respondents		47	100.0%		

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q44. How frequently do you receive training about responsible research practices from your institution?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Only once as induction training	59	9.0	10.7	10.7
		More than once per year	64	9.7	11.6	22.2
		Once a year	137	20.8	24.8	47.0
		Once every 2 years	110	16.7	19.9	66.9
		Less often	183	27.8	33.1	100.0
		Total	553	84.0	100.0	
	Missing	System	105	16.0		
	Total	658	100.0			
Mid-career researcher	Valid	Only once as induction training	40	10.1	12.9	12.9
		More than once per year	43	10.8	13.9	26.9
		Once a year	85	21.4	27.5	54.4
		Once every 2 years	64	16.1	20.7	75.1
		Less often	77	19.4	24.9	100.0
		Total	309	77.8	100.0	
	Missing	System	88	22.2		
	Total	397	100.0			
Junior researcher	Valid	Only once as induction training	36	12.7	16.6	16.6
		More than once per year	37	13.0	17.1	33.6
		Once a year	58	20.4	26.7	60.4
		Once every 2 years	34	12.0	15.7	76.0
		Less often	52	18.3	24.0	100.0
		Total	217	76.4	100.0	
	Missing	System	67	23.6		
	Total	284	100.0			
Research student	Valid	Only once as induction training	39	26.2	36.4	36.4
		More than once per year	15	10.1	14.0	50.5
		Once a year	25	16.8	23.4	73.8
		Once every 2 years	15	10.1	14.0	87.9
		Less often	13	8.7	12.1	100.0
		Total	107	71.8	100.0	
	Missing	System	42	28.2		
	Total	149	100.0			
Representative of an institution	Valid	Only once as induction training	8	7.5	10.0	10.0
		More than once per year	48	45.3	60.0	70.0
		Once a year	13	12.3	16.3	86.3
		Once every 2 years	3	2.8	3.8	90.0
		Less often	8	7.5	10.0	100.0
		Total	80	75.5	100.0	
	Missing	System	26	24.5		
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Only once as induction training	19	15.1	18.4	18.4
		More than once per year	25	19.8	24.3	42.7
		Once a year	27	21.4	26.2	68.9
		Once every 2 years	9	7.1	8.7	77.7
		Less often	23	18.3	22.3	100.0
		Total	103	81.7	100.0	
	Missing	System	23	18.3		
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Only once as induction training	10	20.8	26.3	26.3
		More than once per year	7	14.6	18.4	44.7
		Once a year	10	20.8	26.3	71.1
		Once every 2 years	3	6.3	7.9	78.9
		Less often	8	16.7	21.1	100.0
		Total	38	79.2	100.0	
	Missing	System	10	20.8		
	Total	48	100.0			

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q45mr. Education and training about responsible research practices is provided to... (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	Undergraduate students Masters and PhD students Early and mid-career researchers Senior researchers Research support staff Human Research Ethics Committee members Animal Ethics Committee members Other		
Number of Respondents				
Mid-career researcher	Valid	Undergraduate students Masters and PhD students Early and mid-career researchers Senior researchers Research support staff Human Research Ethics Committee members Animal Ethics Committee members Other		
Number of Respondents				
Junior researcher	Valid	Undergraduate students Masters and PhD students Early and mid-career researchers Senior researchers Research support staff Human Research Ethics Committee members Animal Ethics Committee members Other		
Number of Respondents				
Research student	Valid	Undergraduate students Masters and PhD students Early and mid-career researchers Senior researchers Research support staff Human Research Ethics Committee members Animal Ethics Committee members Other		
Number of Respondents				
Representative of an institution	Valid	Undergraduate students Masters and PhD students Early and mid-career researchers Senior researchers Research support staff Human Research Ethics Committee members Animal Ethics Committee members Other	31 70 69 51 51 49 42 9	37.8% 85.4% 84.1% 62.2% 62.2% 59.8% 51.2% 11.0%
Number of Respondents			82	100.0%
Current member of a Human Research Ethics Committee (HREC)	Valid	Undergraduate students Masters and PhD students Early and mid-career researchers Senior researchers Research support staff Human Research Ethics Committee members Animal Ethics Committee members Other		
Number of Respondents				
Current member of an Animal Ethics Committee (AEC)	Valid	Undergraduate students Masters and PhD students Early and mid-career researchers Senior researchers Research support staff Human Research Ethics Committee members Animal Ethics Committee members Other		
Number of Respondents				

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q46a. The educational and training opportunities available at my institution about responsible research practices are effective

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	19	2.9	3.5	3.5
		Disagree	57	8.7	10.4	13.8
		Neither disagree nor agree	176	26.7	32.1	45.9
		Agree	259	39.4	47.2	93.1
		Strongly agree	38	5.8	6.9	100.0
		Total	549	83.4	100.0	
	Missing	Don't know / Not applicable	43	6.5		
	System	66	10.0			
	Total	109	16.6			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	7	1.8	2.3	2.3
		Disagree	39	9.8	13.0	15.3
		Neither disagree nor agree	101	25.4	33.7	49.0
		Agree	127	32.0	42.3	91.3
		Strongly agree	26	6.5	8.7	100.0
		Total	300	75.6	100.0	
	Missing	Don't know / Not applicable	25	6.3		
	System	72	18.1			
	Total	97	24.4			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	7	2.5	3.6	3.6
		Disagree	32	11.3	16.2	19.8
		Neither disagree nor agree	68	23.9	34.5	54.3
		Agree	67	23.6	34.0	88.3
		Strongly agree	23	8.1	11.7	100.0
		Total	197	69.4	100.0	
	Missing	Don't know / Not applicable	28	9.9		
	System	59	20.8			
	Total	87	30.6			
Total			284	100.0		
Research student	Valid	Strongly disagree	3	2.0	3.0	3.0
		Disagree	17	11.4	16.8	19.8
		Neither disagree nor agree	19	12.8	18.8	38.6
		Agree	49	32.9	48.5	87.1
		Strongly agree	13	8.7	12.9	100.0
		Total	101	67.8	100.0	
	Missing	Don't know / Not applicable	13	8.7		
	System	35	23.5			
	Total	48	32.2			
Total			149	100.0		
Representative of an institution	Valid	Strongly disagree	1	.9	1.4	1.4
		Disagree	18	17.0	24.7	26.0
		Neither disagree nor agree	24	22.6	32.9	58.9
		Agree	28	26.4	38.4	97.3
		Strongly agree	2	1.9	2.7	100.0
		Total	73	68.9	100.0	
	Missing	Don't know / Not applicable	11	10.4		
	System	22	20.8			
	Total	33	31.1			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Strongly disagree	4	3.2	3.9	3.9
		Disagree	13	10.3	12.6	16.5
		Neither disagree nor agree	26	20.6	25.2	41.7
		Agree	53	42.1	51.5	93.2
		Strongly agree	7	5.6	6.8	100.0
		Total	103	81.7	100.0	
	Missing	Don't know / Not applicable	16	12.7		
	System	7	5.6			
	Total	23	18.3			
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Disagree	5	10.4	14.3	14.3
		Neither disagree nor agree	8	16.7	22.9	37.1
		Agree	20	41.7	57.1	94.3
		Strongly agree	2	4.2	5.7	100.0
		Total	35	72.9	100.0	
		Missing	Don't know / Not applicable	12	25.0	
		System	1	2.1		
	Total	13	27.1			
Total			48	100.0		

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q46b. Education and training about responsible research practices is beneficial for my work / role

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	8	1.2	1.4	1.4
		Disagree	22	3.3	3.8	5.2
		Neither disagree nor agree	87	13.2	15.0	20.2
		Agree	343	52.1	59.1	79.3
		Strongly agree	120	18.2	20.7	100.0
		Total	580	88.1	100.0	
	Missing	Don't know / Not applicable	12	1.8		
	System	66	10.0			
	Total	78	11.9			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	2	.5	.6	.6
		Disagree	9	2.3	2.8	3.4
		Neither disagree nor agree	33	8.3	10.3	13.8
		Agree	204	51.4	63.9	77.7
		Strongly agree	71	17.9	22.3	100.0
		Total	319	80.4	100.0	
	Missing	Don't know / Not applicable	5	1.3		
	System	73	18.4			
	Total	78	19.6			
Total			397	100.0		
Junior researcher	Valid	Disagree	4	1.4	1.8	1.8
		Neither disagree nor agree	29	10.2	13.3	15.1
		Agree	117	41.2	53.7	68.8
		Strongly agree	68	23.9	31.2	100.0
		Total	218	76.8	100.0	
		Missing	Don't know / Not applicable	7	2.5	
		System	59	20.8		
	Total	66	23.2			
Total			284	100.0		
Research student	Valid	Strongly disagree	2	1.3	1.8	1.8
		Disagree	2	1.3	1.8	3.6
		Neither disagree nor agree	6	4.0	5.4	9.0
		Agree	57	38.3	51.4	60.4
		Strongly agree	44	29.5	39.6	100.0
		Total	111	74.5	100.0	
	Missing	Don't know / Not applicable	4	2.7		
	System	34	22.8			
	Total	38	25.5			
Total			149	100.0		
Representative of an institution	Valid	Disagree	1	.9	1.3	1.3
		Neither disagree nor agree	3	2.8	3.9	5.2
		Agree	37	34.9	48.1	53.2
		Strongly agree	36	34.0	46.8	100.0
		Total	77	72.6	100.0	
		Missing	Don't know / Not applicable	7	6.6	
		System	22	20.8		
	Total	29	27.4			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Strongly disagree	1	.8	.9	.9
		Disagree	2	1.6	1.8	2.7
		Neither disagree nor agree	8	6.3	7.1	9.8
		Agree	55	43.7	49.1	58.9
		Strongly agree	46	36.5	41.1	100.0
		Total	112	88.9	100.0	
	Missing	Don't know / Not applicable	7	5.6		
	System	7	5.6			
	Total	14	11.1			
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Neither disagree nor agree	3	6.3	7.5	7.5
		Agree	26	54.2	65.0	72.5
		Strongly agree	11	22.9	27.5	100.0
		Total	40	83.3	100.0	
	Missing	Don't know / Not applicable	7	14.6		
		System	1	2.1		
		Total	8	16.7		
Total			48	100.0		

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q46c. Appropriately educating and training researchers about responsible research practices will improve research quality

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	8	1.2	1.4	1.4
		Disagree	27	4.1	4.6	6.0
		Neither disagree nor agree	57	8.7	9.7	15.7
		Agree	294	44.7	50.2	65.9
		Strongly agree	200	30.4	34.1	100.0
		Total	586	89.1	100.0	
	Missing	Don't know / Not applicable	6	.9		
	System	66	10.0			
	Total	72	10.9			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	1	.3	.3	.3
		Disagree	12	3.0	3.7	4.0
		Neither disagree nor agree	27	6.8	8.4	12.5
		Agree	148	37.3	46.1	58.6
		Strongly agree	133	33.5	41.4	100.0
		Total	321	80.9	100.0	
	Missing	Don't know / Not applicable	3	.8		
	System	73	18.4			
	Total	76	19.1			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	1	.4	.5	.5
		Disagree	6	2.1	2.7	3.2
		Neither disagree nor agree	21	7.4	9.5	12.6
		Agree	104	36.6	46.8	59.5
		Strongly agree	90	31.7	40.5	100.0
		Total	222	78.2	100.0	
	Missing	Don't know / Not applicable	3	1.1		
	System	59	20.8			
	Total	62	21.8			
Total			284	100.0		
Research student	Valid	Strongly disagree	2	1.3	1.8	1.8
		Disagree	3	2.0	2.7	4.4
		Neither disagree nor agree	11	7.4	9.7	14.2
		Agree	39	26.2	34.5	48.7
		Strongly agree	58	38.9	51.3	100.0
		Total	113	75.8	100.0	
	Missing	Don't know / Not applicable	2	1.3		
	System	34	22.8			
	Total	36	24.2			
Total			149	100.0		
Representative of an institution	Valid	Neither disagree nor agree	7	6.6	8.6	8.6
		Agree	30	28.3	37.0	45.7
		Strongly agree	44	41.5	54.3	100.0
		Total	81	76.4	100.0	
	Missing	Don't know / Not applicable	3	2.8		
		System	22	20.8		
		Total	25	23.6		
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Strongly disagree	2	1.6	1.7	1.7
		Disagree	1	.8	.9	2.6
		Neither disagree nor agree	7	5.6	6.1	8.7
		Agree	43	34.1	37.4	46.1
		Strongly agree	62	49.2	53.9	100.0
		Total	115	91.3	100.0	
	Missing	Don't know / Not applicable	4	3.2		
	System	7	5.6			
	Total	11	8.7			
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Disagree	1	2.1	2.3	2.3
		Neither disagree nor agree	1	2.1	2.3	4.7
		Agree	21	43.8	48.8	53.5
		Strongly agree	20	41.7	46.5	100.0
		Total	43	89.6	100.0	
	Missing	Don't know / Not applicable	4	8.3		
		System	1	2.1		
	Total	5	10.4			
Total			48	100.0		

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q47mr. When you write a report / paper about your research, which of the following do you specify? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents		
Senior researcher	Valid	How the number of participants / animals per experimental cohort was determined	424	71.4%		
		How statistical power was determined	460	77.4%		
		Whether participants / animals were randomly allocated to experimental cohorts	449	75.6%		
		Whether inclusion or exclusion criteria were applied	454	76.4%		
		How dropouts / losses were accounted for in the analysis plan	383	64.5%		
		Whether outcome assessment was blinded	435	73.2%		
		Inclusion of positive and negative controls	419	70.5%		
		Validation of tools or reagents such as antibodies, siRNAs, small molecules	346	58.2%		
		I have not yet written a report / paper about my research	1	0.2%		
		None of the above				
		I do not specify any of the above as they are not relevant to my research	11	1.9%		
		Don't know / can't say	4	0.7%		
		Number of Respondents			594	100.0%
		Mid-career researcher	Valid	How the number of participants / animals per experimental cohort was determined	225	69.4%
How statistical power was determined	238			73.5%		
Whether participants / animals were randomly allocated to experimental cohorts	242			74.7%		
Whether inclusion or exclusion criteria were applied	253			78.1%		
How dropouts / losses were accounted for in the analysis plan	204			63.0%		
Whether outcome assessment was blinded	224			69.1%		
Inclusion of positive and negative controls	212			65.4%		
Validation of tools or reagents such as antibodies, siRNAs, small molecules	168			51.9%		
I have not yet written a report / paper about my research	1			0.3%		
None of the above	1			0.3%		
I do not specify any of the above as they are not relevant to my research	10			3.1%		
Don't know / can't say						
Number of Respondents				324	100.0%	
Junior researcher	Valid			How the number of participants / animals per experimental cohort was determined	157	69.2%
		How statistical power was determined	163	71.8%		
		Whether participants / animals were randomly allocated to experimental cohorts	154	67.8%		
		Whether inclusion or exclusion criteria were applied	182	80.2%		
		How dropouts / losses were accounted for in the analysis plan	146	64.3%		
		Whether outcome assessment was blinded	144	63.4%		
		Inclusion of positive and negative controls	135	59.5%		
		Validation of tools or reagents such as antibodies, siRNAs, small molecules	97	42.7%		
		I have not yet written a report / paper about my research	2	0.9%		
		None of the above				
		I do not specify any of the above as they are not relevant to my research	6	2.6%		
		Don't know / can't say	3	1.3%		
		Number of Respondents			227	100.0%
		Research student	Valid	How the number of participants / animals per experimental cohort was determined	70	60.3%
How statistical power was determined	66			56.9%		

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q47mr. When you write a report / paper about your research, which of the following do you specify? (Multiple Response)

q1. In what capacity are you participating in this survey?		Frequency	% of respondents
Representative of an institution		Whether participants / animals were randomly allocated to experimental cohorts	58 50.0%
		Whether inclusion or exclusion criteria were applied	85 73.3%
		How dropouts / losses were accounted for in the analysis plan	59 50.9%
		Whether outcome assessment was blinded	44 37.9%
		Inclusion of positive and negative controls	47 40.5%
		Validation of tools or reagents such as antibodies, siRNAs, small molecules	41 35.3%
		I have not yet written a report / paper about my research	11 9.5%
		None of the above	1 0.9%
		I do not specify any of the above as they are not relevant to my research	3 2.6%
		Don't know / can't say	5 4.3%
	Number of Respondents	116	100.0%
Representative of an institution	Valid	How the number of participants / animals per experimental cohort was determined	
		How statistical power was determined	
		Whether participants / animals were randomly allocated to experimental cohorts	
		Whether inclusion or exclusion criteria were applied	
		How dropouts / losses were accounted for in the analysis plan	
		Whether outcome assessment was blinded	
		Inclusion of positive and negative controls	
		Validation of tools or reagents such as antibodies, siRNAs, small molecules	
		I have not yet written a report / paper about my research	
		None of the above	
	I do not specify any of the above as they are not relevant to my research		
	Don't know / can't say		
	Number of Respondents		
Current member of a Human Research Ethics Committee (HREC)	Valid	How the number of participants / animals per experimental cohort was determined	
		How statistical power was determined	
		Whether participants / animals were randomly allocated to experimental cohorts	
		Whether inclusion or exclusion criteria were applied	
		How dropouts / losses were accounted for in the analysis plan	
		Whether outcome assessment was blinded	
		Inclusion of positive and negative controls	
		Validation of tools or reagents such as antibodies, siRNAs, small molecules	
		I have not yet written a report / paper about my research	
		None of the above	
	I do not specify any of the above as they are not relevant to my research		
	Don't know / can't say		
	Number of Respondents		
Current member of an Animal Ethics Committee (AEC)	Valid	How the number of participants / animals per experimental cohort was determined	
		How statistical power was determined	
		Whether participants / animals were randomly allocated to experimental cohorts	
		Whether inclusion or exclusion criteria were applied	
		How dropouts / losses were accounted for in the analysis plan	
		Whether outcome assessment was blinded	
		Inclusion of positive and negative controls	
		Validation of tools or reagents such as antibodies, siRNAs, small molecules	
		I have not yet written a report / paper about my research	
		None of the above	
	I do not specify any of the above as they are not relevant to my research		
	Don't know / can't say		
	Number of Respondents		

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q48a. Reporting of study methods and procedures

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	34	5.2	6.2	6.2
		To a small extent	99	15.0	18.1	24.3
		To a moderate extent	215	32.7	39.2	63.5
		To a large extent	200	30.4	36.5	100.0
		Total	548	83.3	100.0	
	Missing	Don't know / not applicable	47	7.1		
		System	63	9.6		
Total	Total	110	16.7			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	14	3.5	4.6	4.6
		To a small extent	44	11.1	14.3	18.9
		To a moderate extent	114	28.7	37.1	56.0
		To a large extent	135	34.0	44.0	100.0
		Total	307	77.3	100.0	
	Missing	Don't know / not applicable	16	4.0		
		System	74	18.6		
Total	Total	90	22.7			
Total			397	100.0		
Junior researcher	Valid	Not at all	6	2.1	2.9	2.9
		To a small extent	18	6.3	8.7	11.6
		To a moderate extent	72	25.4	34.8	46.4
		To a large extent	111	39.1	53.6	100.0
		Total	207	72.9	100.0	
	Missing	Don't know / not applicable	21	7.4		
		System	56	19.7		
Total	Total	77	27.1			
Total			284	100.0		
Research student	Valid	Not at all	2	1.3	2.4	2.4
		To a small extent	4	2.7	4.8	7.1
		To a moderate extent	32	21.5	38.1	45.2
		To a large extent	46	30.9	54.8	100.0
		Total	84	56.4	100.0	
	Missing	Don't know / not applicable	29	19.5		
		System	36	24.2		
Total	Total	65	43.6			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q48b. Adoption of practices to reduce bias (blinding, randomisation)

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	45	6.8	8.7	8.7
		To a small extent	106	16.1	20.5	29.2
		To a moderate extent	196	29.8	37.8	67.0
		To a large extent	171	26.0	33.0	100.0
		Total	518	78.7	100.0	
	Missing	Don't know / not applicable	76	11.6		
		System	64	9.7		
Total	Total	140	21.3			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	19	4.8	6.7	6.7
		To a small extent	48	12.1	16.8	23.5
		To a moderate extent	99	24.9	34.7	58.2
		To a large extent	119	30.0	41.8	100.0
		Total	285	71.8	100.0	
	Missing	Don't know / not applicable	38	9.6		
		System	74	18.6		
Total	Total	112	28.2			
Total			397	100.0		
Junior researcher	Valid	Not at all	6	2.1	3.2	3.2
		To a small extent	22	7.7	11.7	14.9
		To a moderate extent	68	23.9	36.2	51.1
		To a large extent	92	32.4	48.9	100.0
		Total	188	66.2	100.0	
	Missing	Don't know / not applicable	40	14.1		
		System	56	19.7		
Total	Total	96	33.8			
Total			284	100.0		
Research student	Valid	Not at all	4	2.7	5.3	5.3
		To a small extent	7	4.7	9.3	14.7
		To a moderate extent	27	18.1	36.0	50.7
		To a large extent	37	24.8	49.3	100.0
		Total	75	50.3	100.0	
	Missing	Don't know / not applicable	38	25.5		
		System	36	24.2		
Total	Total	74	49.7			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q48c. Statistical analysis of studies

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	41	6.2	7.6	7.6
		To a small extent	109	16.6	20.1	27.7
		To a moderate extent	216	32.8	39.9	67.7
		To a large extent	175	26.6	32.3	100.0
		Total	541	82.2	100.0	
	Missing	Don't know / not applicable	53	8.1		
		System	64	9.7		
Total	Total	117	17.8			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	19	4.8	6.3	6.3
		To a small extent	61	15.4	20.2	26.5
		To a moderate extent	107	27.0	35.4	61.9
		To a large extent	115	29.0	38.1	100.0
		Total	302	76.1	100.0	
	Missing	Don't know / not applicable	21	5.3		
		System	74	18.6		
Total	Total	95	23.9			
Total			397	100.0		
Junior researcher	Valid	Not at all	9	3.2	4.6	4.6
		To a small extent	34	12.0	17.3	21.9
		To a moderate extent	67	23.6	34.2	56.1
		To a large extent	86	30.3	43.9	100.0
		Total	196	69.0	100.0	
	Missing	Don't know / not applicable	32	11.3		
		System	56	19.7		
Total	Total	88	31.0			
Total			284	100.0		
Research student	Valid	Not at all	5	3.4	6.3	6.3
		To a small extent	7	4.7	8.9	15.2
		To a moderate extent	32	21.5	40.5	55.7
		To a large extent	35	23.5	44.3	100.0
		Total	79	53.0	100.0	
	Missing	Don't know / not applicable	35	23.5		
		System	35	23.5		
Total	Total	70	47.0			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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C. Environment

q48d. Reporting of reagents

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	33	5.0	10.2	10.2
		To a small extent	80	12.2	24.8	35.0
		To a moderate extent	134	20.4	41.5	76.5
		To a large extent	76	11.6	23.5	100.0
		Total	323	49.1	100.0	
	Missing	Don't know / not applicable	263	40.0		
		System	72	10.9		
Total	Total	335	50.9			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	13	3.3	8.4	8.4
		To a small extent	37	9.3	24.0	32.5
		To a moderate extent	50	12.6	32.5	64.9
		To a large extent	54	13.6	35.1	100.0
		Total	154	38.8	100.0	
	Missing	Don't know / not applicable	166	41.8		
		System	77	19.4		
Total	Total	243	61.2			
Total			397	100.0		
Junior researcher	Valid	Not at all	9	3.2	9.4	9.4
		To a small extent	24	8.5	25.0	34.4
		To a moderate extent	33	11.6	34.4	68.8
		To a large extent	30	10.6	31.3	100.0
		Total	96	33.8	100.0	
	Missing	Don't know / not applicable	131	46.1		
		System	57	20.1		
Total	Total	188	66.2			
Total			284	100.0		
Research student	Valid	Not at all	4	2.7	10.0	10.0
		To a small extent	8	5.4	20.0	30.0
		To a moderate extent	13	8.7	32.5	62.5
		To a large extent	15	10.1	37.5	100.0
		Total	40	26.8	100.0	
	Missing	Don't know / not applicable	73	49.0		
		System	36	24.2		
Total	Total	109	73.2			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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C. Environment

q48e. Reporting of animal models

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	28	4.3	9.6	9.6
		To a small extent	75	11.4	25.8	35.4
		To a moderate extent	110	16.7	37.8	73.2
		To a large extent	78	11.9	26.8	100.0
		Total	291	44.2	100.0	
	Missing	Don't know / not applicable	294	44.7		
		System	73	11.1		
Total	Total	367	55.8			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	13	3.3	9.4	9.4
		To a small extent	25	6.3	18.1	27.5
		To a moderate extent	44	11.1	31.9	59.4
		To a large extent	56	14.1	40.6	100.0
		Total	138	34.8	100.0	
	Missing	Don't know / not applicable	184	46.3		
		System	75	18.9		
Total	Total	259	65.2			
Total			397	100.0		
Junior researcher	Valid	Not at all	9	3.2	11.0	11.0
		To a small extent	12	4.2	14.6	25.6
		To a moderate extent	27	9.5	32.9	58.5
		To a large extent	34	12.0	41.5	100.0
		Total	82	28.9	100.0	
	Missing	Don't know / not applicable	145	51.1		
		System	57	20.1		
Total	Total	202	71.1			
Total			284	100.0		
Research student	Valid	Not at all	5	3.4	16.7	16.7
		To a small extent	6	4.0	20.0	36.7
		To a moderate extent	9	6.0	30.0	66.7
		To a large extent	10	6.7	33.3	100.0
		Total	30	20.1	100.0	
	Missing	Don't know / not applicable	83	55.7		
		System	36	24.2		
Total	Total	119	79.9			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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C. Environment

q48f. Increased data deposition in public repositories

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all	79	12.0	16.0	16.0
		To a small extent	150	22.8	30.4	46.4
		To a moderate extent	155	23.6	31.4	77.7
		To a large extent	110	16.7	22.3	100.0
		Total	494	75.1	100.0	
	Missing	Don't know / not applicable	99	15.0		
		System	65	9.9		
Total	Total	164	24.9			
Total			658	100.0		
Mid-career researcher	Valid	Not at all	39	9.8	14.7	14.7
		To a small extent	68	17.1	25.6	40.2
		To a moderate extent	85	21.4	32.0	72.2
		To a large extent	74	18.6	27.8	100.0
		Total	266	67.0	100.0	
	Missing	Don't know / not applicable	57	14.4		
		System	74	18.6		
Total	Total	131	33.0			
Total			397	100.0		
Junior researcher	Valid	Not at all	19	6.7	11.9	11.9
		To a small extent	44	15.5	27.7	39.6
		To a moderate extent	45	15.8	28.3	67.9
		To a large extent	51	18.0	32.1	100.0
		Total	159	56.0	100.0	
	Missing	Don't know / not applicable	68	23.9		
		System	57	20.1		
Total	Total	125	44.0			
Total			284	100.0		
Research student	Valid	Not at all	9	6.0	15.0	15.0
		To a small extent	11	7.4	18.3	33.3
		To a moderate extent	22	14.8	36.7	70.0
		To a large extent	18	12.1	30.0	100.0
		Total	60	40.3	100.0	
	Missing	Don't know / not applicable	54	36.2		
		System	35	23.5		
Total	Total	89	59.7			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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D. Pressures

q49. Have you ever been aware of other researchers feeling tempted or under pressure to compromise on research quality?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Yes	333	50.6	56.3	56.3
		No	258	39.2	43.7	100.0
		Total	591	89.8	100.0	
	Missing	System	67	10.2		
	Total		658	100.0		
Mid-career researcher	Valid	Yes	172	43.3	53.1	53.1
		No	152	38.3	46.9	100.0
		Total	324	81.6	100.0	
	Missing	System	73	18.4		
	Total		397	100.0		
Junior researcher	Valid	Yes	130	45.8	58.0	58.0
		No	94	33.1	42.0	100.0
		Total	224	78.9	100.0	
	Missing	System	60	21.1		
	Total		284	100.0		
Research student	Valid	Yes	54	36.2	48.2	48.2
		No	58	38.9	51.8	100.0
		Total	112	75.2	100.0	
	Missing	System	37	24.8		
	Total		149	100.0		
Representative of an institution	Valid	Yes	47	44.3	56.0	56.0
		No	37	34.9	44.0	100.0
		Total	84	79.2	100.0	
	Missing	System	22	20.8		
	Total		106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Yes	52	41.3	43.3	43.3
		No	68	54.0	56.7	100.0
		Total	120	95.2	100.0	
	Missing	System	6	4.8		
	Total		126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Yes	17	35.4	37.0	37.0
		No	29	60.4	63.0	100.0
		Total	46	95.8	100.0	
	Missing	System	2	4.2		
	Total		48	100.0		

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D. Pressures

q50. Have you ever personally felt tempted or under pressure to compromise on research quality?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Yes	129	19.6	21.8	21.8
		No	462	70.2	78.2	100.0
		Total	591	89.8	100.0	
	Missing	System	67	10.2		
	Total		658	100.0		
Mid-career researcher	Valid	Yes	98	24.7	30.3	30.3
		No	225	56.7	69.7	100.0
		Total	323	81.4	100.0	
	Missing	System	74	18.6		
	Total		397	100.0		
Junior researcher	Valid	Yes	78	27.5	34.5	34.5
		No	148	52.1	65.5	100.0
		Total	226	79.6	100.0	
	Missing	System	58	20.4		
	Total		284	100.0		
Research student	Valid	Yes	39	26.2	34.8	34.8
		No	73	49.0	65.2	100.0
		Total	112	75.2	100.0	
	Missing	System	37	24.8		
	Total		149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

q51a. My department's / research group's expectations of researchers for obtaining external funding are reasonable

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	57	8.7	9.7	9.7
		Disagree	127	19.3	21.7	31.5
		Neither agree nor disagree	107	16.3	18.3	49.7
		Agree	264	40.1	45.1	94.9
		Strongly agree	30	4.6	5.1	100.0
		Total	585	88.9	100.0	
	Missing	Don't know / not applicable	7	1.1		
		System	66	10.0		
		Total	73	11.1		
	Total		658	100.0		
Mid-career researcher	Valid	Strongly disagree	38	9.6	11.8	11.8
		Disagree	83	20.9	25.8	37.6
		Neither agree nor disagree	75	18.9	23.3	60.9
		Agree	111	28.0	34.5	95.3
		Strongly agree	15	3.8	4.7	100.0
		Total	322	81.1	100.0	
	Missing	Don't know / not applicable	2	.5		
		System	73	18.4		
		Total	75	18.9		
	Total		397	100.0		
Junior researcher	Valid	Strongly disagree	19	6.7	9.0	9.0
		Disagree	59	20.8	27.8	36.8
		Neither agree nor disagree	43	15.1	20.3	57.1
		Agree	83	29.2	39.2	96.2
		Strongly agree	8	2.8	3.8	100.0
		Total	212	74.6	100.0	
	Missing	Don't know / not applicable	12	4.2		
		System	60	21.1		
		Total	72	25.4		
	Total		284	100.0		
Research student	Valid	Strongly disagree	3	2.0	3.3	3.3
		Disagree	25	16.8	27.5	30.8
		Neither agree nor disagree	16	10.7	17.6	48.4
		Agree	40	26.8	44.0	92.3
		Strongly agree	7	4.7	7.7	100.0
		Total	91	61.1	100.0	
	Missing	Don't know / not applicable	21	14.1		
		System	37	24.8		
		Total	58	38.9		
	Total		149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		

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D. Pressures

q51a. My department's / research group's expectations of researchers for obtaining external funding are reasonable

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

q51b. Pressure to obtain external funding has a negative effect on the quality of research in my department / research group

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	45	6.8	7.8	7.8
		Disagree	142	21.6	24.6	32.4
		Neither agree nor disagree	114	17.3	19.7	52.1
		Agree	158	24.0	27.3	79.4
		Strongly agree	119	18.1	20.6	100.0
		Total	578	87.8	100.0	
	Missing	Don't know / not applicable	12	1.8		
	System	68	10.3			
	Total	80	12.2			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	15	3.8	4.7	4.7
		Disagree	60	15.1	18.9	23.6
		Neither agree nor disagree	63	15.9	19.8	43.4
		Agree	103	25.9	32.4	75.8
		Strongly agree	77	19.4	24.2	100.0
		Total	318	80.1	100.0	
	Missing	Don't know / not applicable	6	1.5		
	System	73	18.4			
	Total	79	19.9			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	7	2.5	3.4	3.4
		Disagree	25	8.8	12.1	15.5
		Neither agree nor disagree	44	15.5	21.4	36.9
		Agree	71	25.0	34.5	71.4
		Strongly agree	59	20.8	28.6	100.0
		Total	206	72.5	100.0	
	Missing	Don't know / not applicable	17	6.0		
	System	61	21.5			
	Total	78	27.5			
Total			284	100.0		
Research student	Valid	Strongly disagree	2	1.3	2.2	2.2
		Disagree	19	12.8	21.3	23.6
		Neither agree nor disagree	29	19.5	32.6	56.2
		Agree	23	15.4	25.8	82.0
		Strongly agree	16	10.7	18.0	100.0
		Total	89	59.7	100.0	
	Missing	Don't know / not applicable	23	15.4		
	System	37	24.8			
	Total	60	40.3			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
D. Pressures

q52a. My department's / research group's expectations of researchers with respect to publishing are reasonable

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	24	3.6	4.1	4.1
		Disagree	68	10.3	11.7	15.8
		Neither agree nor disagree	95	14.4	16.3	32.1
		Agree	342	52.0	58.8	90.9
		Strongly agree	53	8.1	9.1	100.0
		Total	582	88.4	100.0	
	Missing	Don't know / not applicable	9	1.4		
	System	67	10.2			
	Total	76	11.6			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	18	4.5	5.6	5.6
		Disagree	49	12.3	15.3	20.9
		Neither agree nor disagree	59	14.9	18.4	39.4
		Agree	176	44.3	55.0	94.4
		Strongly agree	18	4.5	5.6	100.0
		Total	320	80.6	100.0	
	Missing	Don't know / not applicable	1	.3		
	System	76	19.1			
	Total	77	19.4			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	10	3.5	4.5	4.5
		Disagree	35	12.3	15.8	20.4
		Neither agree nor disagree	30	10.6	13.6	33.9
		Agree	132	46.5	59.7	93.7
		Strongly agree	14	4.9	6.3	100.0
		Total	221	77.8	100.0	
	Missing	Don't know / not applicable	5	1.8		
	System	58	20.4			
	Total	63	22.2			
Total			284	100.0		
Research student	Valid	Strongly disagree	2	1.3	2.0	2.0
		Disagree	9	6.0	9.1	11.1
		Neither agree nor disagree	20	13.4	20.2	31.3
		Agree	57	38.3	57.6	88.9
		Strongly agree	11	7.4	11.1	100.0
		Total	99	66.4	100.0	
	Missing	Don't know / not applicable	12	8.1		
	System	38	25.5			
	Total	50	33.6			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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D. Pressures

q52b. The pressure to publish findings has a negative effect on the quality of research in my department / research group

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	48	7.3	8.3	8.3
		Disagree	226	34.3	39.2	47.6
		Neither agree nor disagree	138	21.0	24.0	71.5
		Agree	115	17.5	20.0	91.5
		Strongly agree	49	7.4	8.5	100.0
		Total	576	87.5	100.0	
	Missing	Don't know / not applicable	11	1.7		
	System	71	10.8			
	Total	82	12.5			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	16	4.0	5.0	5.0
		Disagree	98	24.7	30.9	36.0
		Neither agree nor disagree	85	21.4	26.8	62.8
		Agree	83	20.9	26.2	89.0
		Strongly agree	35	8.8	11.0	100.0
		Total	317	79.8	100.0	
	Missing	Don't know / not applicable	4	1.0		
	System	76	19.1			
	Total	80	20.2			
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	12	4.2	5.7	5.7
		Disagree	69	24.3	32.9	38.6
		Neither agree nor disagree	35	12.3	16.7	55.2
		Agree	68	23.9	32.4	87.6
		Strongly agree	26	9.2	12.4	100.0
		Total	210	73.9	100.0	
	Missing	Don't know / not applicable	14	4.9		
	System	60	21.1			
	Total	74	26.1			
Total			284	100.0		
Research student	Valid	Strongly disagree	6	4.0	6.2	6.2
		Disagree	37	24.8	38.1	44.3
		Neither agree nor disagree	32	21.5	33.0	77.3
		Agree	17	11.4	17.5	94.8
		Strongly agree	5	3.4	5.2	100.0
		Total	97	65.1	100.0	
	Missing	Don't know / not applicable	14	9.4		
	System	38	25.5			
	Total	52	34.9			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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D. Pressures

q52c. It is necessary to have a first authored publication in a prestigious journal (e.g. Cell, Nature, Science, NEJM, Lancet) when seeking an academic position or promotion

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	52	7.9	9.0	9.0
		Disagree	184	28.0	31.8	40.8
		Neither agree nor disagree	107	16.3	18.5	59.2
		Agree	154	23.4	26.6	85.8
		Strongly agree	82	12.5	14.2	100.0
		Total	579	88.0	100.0	
	Missing	Don't know / not applicable	10	1.5		
	System	69	10.5			
	Total	79	12.0			
	Total	658	100.0			
Mid-career researcher	Valid	Strongly disagree	17	4.3	5.4	5.4
		Disagree	78	19.6	24.7	30.1
		Neither agree nor disagree	49	12.3	15.5	45.6
		Agree	98	24.7	31.0	76.6
		Strongly agree	74	18.6	23.4	100.0
		Total	316	79.6	100.0	
	Missing	Don't know / not applicable	5	1.3		
	System	76	19.1			
	Total	81	20.4			
	Total	397	100.0			
Junior researcher	Valid	Strongly disagree	3	1.1	1.4	1.4
		Disagree	40	14.1	18.8	20.2
		Neither agree nor disagree	43	15.1	20.2	40.4
		Agree	72	25.4	33.8	74.2
		Strongly agree	55	19.4	25.8	100.0
		Total	213	75.0	100.0	
	Missing	Don't know / not applicable	13	4.6		
	System	58	20.4			
	Total	71	25.0			
	Total	284	100.0			
Research student	Valid	Strongly disagree	3	2.0	3.4	3.4
		Disagree	17	11.4	19.3	22.7
		Neither agree nor disagree	22	14.8	25.0	47.7
		Agree	27	18.1	30.7	78.4
		Strongly agree	19	12.8	21.6	100.0
		Total	88	59.1	100.0	
	Missing	Don't know / not applicable	24	16.1		
	System	37	24.8			
	Total	61	40.9			
	Total	149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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D. Pressures

q52d. I experience stress at the thought of my colleagues' assessment of my publication output

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	82	12.5	14.1	14.1
		Disagree	173	26.3	29.7	43.7
		Neither agree nor disagree	89	13.5	15.3	59.0
		Agree	156	23.7	26.8	85.8
		Strongly agree	83	12.6	14.2	100.0
		Total	583	88.6	100.0	
	Missing	Don't know / not applicable	3	.5		
	System	72	10.9			
	Total	75	11.4			
Total			658	100.0		
Mid-career researcher	Valid	Strongly disagree	22	5.5	6.9	6.9
		Disagree	77	19.4	24.0	30.8
		Neither agree nor disagree	50	12.6	15.6	46.4
		Agree	109	27.5	34.0	80.4
		Strongly agree	63	15.9	19.6	100.0
		Total	321	80.9	100.0	
	Missing	System	76	19.1		
Total			397	100.0		
Junior researcher	Valid	Strongly disagree	16	5.6	7.1	7.1
		Disagree	40	14.1	17.9	25.0
		Neither agree nor disagree	21	7.4	9.4	34.4
		Agree	86	30.3	38.4	72.8
		Strongly agree	61	21.5	27.2	100.0
		Total	224	78.9	100.0	
	Missing	Don't know / not applicable	2	.7		
	System	58	20.4			
	Total	60	21.1			
Total			284	100.0		
Research student	Valid	Strongly disagree	4	2.7	3.9	3.9
		Disagree	21	14.1	20.6	24.5
		Neither agree nor disagree	13	8.7	12.7	37.3
		Agree	41	27.5	40.2	77.5
		Strongly agree	23	15.4	22.5	100.0
		Total	102	68.5	100.0	
	Missing	Don't know / not applicable	10	6.7		
	System	37	24.8			
	Total	47	31.5			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q52e. Publication pressure leads some colleagues (whether intentionally or not) to cut corners

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Strongly disagree	12	1.8	2.2	2.2
		Disagree	71	10.8	13.2	15.4
		Neither agree nor disagree	100	15.2	18.6	34.0
		Agree	239	36.3	44.4	78.4
		Strongly agree	116	17.6	21.6	100.0
		Total	538	81.8	100.0	
	Missing	Don't know / not applicable	50	7.6		
	System	70	10.6			
	Total	120	18.2			
	Total	658	100.0			
Mid-career researcher	Valid	Strongly disagree	6	1.5	2.1	2.1
		Disagree	45	11.3	15.5	17.6
		Neither agree nor disagree	42	10.6	14.5	32.1
		Agree	116	29.2	40.0	72.1
		Strongly agree	81	20.4	27.9	100.0
		Total	290	73.0	100.0	
	Missing	Don't know / not applicable	30	7.6		
	System	77	19.4			
	Total	107	27.0			
	Total	397	100.0			
Junior researcher	Valid	Strongly disagree	5	1.8	2.6	2.6
		Disagree	19	6.7	9.7	12.2
		Neither agree nor disagree	29	10.2	14.8	27.0
		Agree	82	28.9	41.8	68.9
		Strongly agree	61	21.5	31.1	100.0
		Total	196	69.0	100.0	
	Missing	Don't know / not applicable	30	10.6		
	System	58	20.4			
	Total	88	31.0			
	Total	284	100.0			
Research student	Valid	Strongly disagree	2	1.3	2.4	2.4
		Disagree	8	5.4	9.6	12.0
		Neither agree nor disagree	22	14.8	26.5	38.6
		Agree	38	25.5	45.8	84.3
		Strongly agree	13	8.7	15.7	100.0
		Total	83	55.7	100.0	
	Missing	Don't know / not applicable	29	19.5		
	System	37	24.8			
	Total	66	44.3			
	Total	149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q53a. Making discoveries

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all competitive	4	.6	.7	.7
		Not that competitive	35	5.3	6.3	7.0
		Somewhat competitive	96	14.6	17.1	24.1
		Quite competitive	200	30.4	35.7	59.8
		Very competitive	225	34.2	40.2	100.0
		Total	560	85.1	100.0	
	Missing	Don't know / can't say	27	4.1		
		System	71	10.8		
Total		98	14.9			
Total			658	100.0		
Mid-career researcher	Valid	Not at all competitive	3	.8	1.0	1.0
		Not that competitive	29	7.3	9.5	10.5
		Somewhat competitive	82	20.7	26.9	37.4
		Quite competitive	99	24.9	32.5	69.8
		Very competitive	92	23.2	30.2	100.0
		Total	305	76.8	100.0	
	Missing	Don't know / can't say	15	3.8		
		System	77	19.4		
Total		92	23.2			
Total			397	100.0		
Junior researcher	Valid	Not at all competitive	5	1.8	2.4	2.4
		Not that competitive	17	6.0	8.3	10.7
		Somewhat competitive	56	19.7	27.2	37.9
		Quite competitive	66	23.2	32.0	69.9
		Very competitive	62	21.8	30.1	100.0
		Total	206	72.5	100.0	
	Missing	Don't know / can't say	19	6.7		
		System	59	20.8		
Total		78	27.5			
Total			284	100.0		
Research student	Valid	Not at all competitive	2	1.3	2.1	2.1
		Not that competitive	5	3.4	5.2	7.2
		Somewhat competitive	21	14.1	21.6	28.9
		Quite competitive	43	28.9	44.3	73.2
		Very competitive	26	17.4	26.8	100.0
		Total	97	65.1	100.0	
	Missing	Don't know / can't say	15	10.1		
		System	37	24.8		
Total		52	34.9			
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q53b. Applying for funding

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not that competitive	3	.5	.5	.5
		Somewhat competitive	5	.8	.9	1.4
		Quite competitive	46	7.0	7.8	9.2
		Very competitive	532	80.9	90.8	100.0
		Total	586	89.1	100.0	
	Missing	Don't know / can't say	3	.5		
		System	69	10.5		
	Total	72	10.9			
	Total	658	100.0			
Mid-career researcher	Valid	Not that competitive	2	.5	.6	.6
		Somewhat competitive	1	.3	.3	.9
		Quite competitive	18	4.5	5.6	6.6
		Very competitive	299	75.3	93.4	100.0
		Total	320	80.6	100.0	
	Missing	Don't know / can't say	1	.3		
		System	76	19.1		
	Total	77	19.4			
	Total	397	100.0			
Junior researcher	Valid	Not at all competitive	1	.4	.4	.4
		Somewhat competitive	3	1.1	1.3	1.8
		Quite competitive	10	3.5	4.5	6.3
		Very competitive	209	73.6	93.7	100.0
		Total	223	78.5	100.0	
	Missing	Don't know / can't say	2	.7		
		System	59	20.8		
	Total	61	21.5			
	Total	284	100.0			
Research student	Valid	Not that competitive	1	.7	.9	.9
		Somewhat competitive	2	1.3	1.8	2.8
		Quite competitive	12	8.1	11.0	13.8
		Very competitive	94	63.1	86.2	100.0
		Total	109	73.2	100.0	
	Missing	Don't know / can't say	3	2.0		
		System	37	24.8		
	Total	40	26.8			
	Total	149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q53c. Applying for jobs and promotions

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not that competitive	6	.9	1.0	1.0
		Somewhat competitive	52	7.9	8.9	10.0
		Quite competitive	170	25.8	29.2	39.2
		Very competitive	354	53.8	60.8	100.0
		Total	582	88.4	100.0	
	Missing	Don't know / can't say	7	1.1		
		System	69	10.5		
	Total	76	11.6			
	Total	658	100.0			
Mid-career researcher	Valid	Not that competitive	3	.8	.9	.9
		Somewhat competitive	24	6.0	7.5	8.5
		Quite competitive	86	21.7	27.0	35.4
		Very competitive	206	51.9	64.6	100.0
		Total	319	80.4	100.0	
	Missing	Don't know / can't say	2	.5		
		System	76	19.1		
	Total	78	19.6			
	Total	397	100.0			
Junior researcher	Valid	Not that competitive	1	.4	.5	.5
		Somewhat competitive	11	3.9	5.0	5.5
		Quite competitive	56	19.7	25.6	31.1
		Very competitive	151	53.2	68.9	100.0
		Total	219	77.1	100.0	
	Missing	Don't know / can't say	6	2.1		
		System	59	20.8		
	Total	65	22.9			
	Total	284	100.0			
Research student	Valid	Somewhat competitive	6	4.0	5.6	5.6
		Quite competitive	41	27.5	38.0	43.5
		Very competitive	61	40.9	56.5	100.0
		Total	108	72.5	100.0	
	Missing	Don't know / can't say	4	2.7		
		System	37	24.8		
		Total	41	27.5		
	Total	149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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q53d. Gaining peer recognition

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all competitive	1	.2	.2	.2
		Not that competitive	18	2.7	3.1	3.3
		Somewhat competitive	100	15.2	17.2	20.4
		Quite competitive	234	35.6	40.2	60.7
		Very competitive	229	34.8	39.3	100.0
		Total	582	88.4	100.0	
	Missing	Don't know / can't say	7	1.1		
		System	69	10.5		
		Total	76	11.6		
	Total		658	100.0		
Mid-career researcher	Valid	Not at all competitive	1	.3	.3	.3
		Not that competitive	16	4.0	5.0	5.3
		Somewhat competitive	59	14.9	18.6	23.9
		Quite competitive	130	32.7	40.9	64.8
		Very competitive	112	28.2	35.2	100.0
		Total	318	80.1	100.0	
	Missing	Don't know / can't say	3	.8		
		System	76	19.1		
		Total	79	19.9		
	Total		397	100.0		
Junior researcher	Valid	Not at all competitive	2	.7	.9	.9
		Not that competitive	11	3.9	5.1	6.0
		Somewhat competitive	44	15.5	20.3	26.3
		Quite competitive	84	29.6	38.7	65.0
		Very competitive	76	26.8	35.0	100.0
		Total	217	76.4	100.0	
	Missing	Don't know / can't say	8	2.8		
		System	59	20.8		
		Total	67	23.6		
	Total		284	100.0		
Research student	Valid	Not at all competitive	1	.7	.9	.9
		Not that competitive	2	1.3	1.9	2.8
		Somewhat competitive	20	13.4	18.9	21.7
		Quite competitive	54	36.2	50.9	72.6
		Very competitive	29	19.5	27.4	100.0
		Total	106	71.1	100.0	
	Missing	Don't know / can't say	6	4.0		
		System	37	24.8		
		Total	43	28.9		
	Total		149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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D. Pressures

q53e. Gaining public recognition

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all competitive	10	1.5	1.8	1.8
		Not that competitive	87	13.2	15.3	17.0
		Somewhat competitive	176	26.7	30.9	48.0
		Quite competitive	145	22.0	25.5	73.5
		Very competitive	151	22.9	26.5	100.0
		Total	569	86.5	100.0	
	Missing	Don't know / can't say	20	3.0		
		System	69	10.5		
		Total	89	13.5		
	Total		658	100.0		
Mid-career researcher	Valid	Not at all competitive	8	2.0	2.6	2.6
		Not that competitive	40	10.1	13.2	15.8
		Somewhat competitive	80	20.2	26.3	42.1
		Quite competitive	93	23.4	30.6	72.7
		Very competitive	83	20.9	27.3	100.0
		Total	304	76.6	100.0	
	Missing	Don't know / can't say	17	4.3		
		System	76	19.1		
		Total	93	23.4		
	Total		397	100.0		
Junior researcher	Valid	Not at all competitive	4	1.4	1.9	1.9
		Not that competitive	27	9.5	12.7	14.6
		Somewhat competitive	64	22.5	30.0	44.6
		Quite competitive	58	20.4	27.2	71.8
		Very competitive	60	21.1	28.2	100.0
		Total	213	75.0	100.0	
	Missing	Don't know / can't say	12	4.2		
		System	59	20.8		
		Total	71	25.0		
	Total		284	100.0		
Research student	Valid	Not at all competitive	2	1.3	2.0	2.0
		Not that competitive	10	6.7	9.8	11.8
		Somewhat competitive	31	20.8	30.4	42.2
		Quite competitive	33	22.1	32.4	74.5
		Very competitive	26	17.4	25.5	100.0
		Total	102	68.5	100.0	
	Missing	Don't know / can't say	10	6.7		
		System	37	24.8		
		Total	47	31.5		
	Total		149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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D. Pressures

q53f. Journal publication

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Not at all competitive	4	.6	.7	.7
		Not that competitive	19	2.9	3.2	3.9
		Somewhat competitive	72	10.9	12.3	16.2
		Quite competitive	209	31.8	35.7	52.0
		Very competitive	281	42.7	48.0	100.0
		Total	585	88.9	100.0	
	Missing	Don't know / can't say	3	.5		
		System	70	10.6		
		Total	73	11.1		
	Total		658	100.0		
Mid-career researcher	Valid	Not at all competitive	1	.3	.3	.3
		Not that competitive	13	3.3	4.1	4.4
		Somewhat competitive	74	18.6	23.1	27.5
		Quite competitive	101	25.4	31.6	59.1
		Very competitive	131	33.0	40.9	100.0
		Total	320	80.6	100.0	
	Missing	Don't know / can't say	1	.3		
		System	76	19.1		
		Total	77	19.4		
	Total		397	100.0		
Junior researcher	Valid	Not at all competitive	1	.4	.5	.5
		Not that competitive	4	1.4	1.8	2.3
		Somewhat competitive	34	12.0	15.4	17.6
		Quite competitive	76	26.8	34.4	52.0
		Very competitive	106	37.3	48.0	100.0
		Total	221	77.8	100.0	
	Missing	Don't know / can't say	3	1.1		
		System	60	21.1		
		Total	63	22.2		
	Total		284	100.0		
Research student	Valid	Not that competitive	6	4.0	5.5	5.5
		Somewhat competitive	12	8.1	11.0	16.5
		Quite competitive	46	30.9	42.2	58.7
		Very competitive	45	30.2	41.3	100.0
		Total	109	73.2	100.0	
		Missing	Don't know / can't say	3	2.0	
	System		37	24.8		
	Total		40	26.8		
	Total		149	100.0		
	Representative of an institution	Missing	System	106	100.0	
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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D. Pressures

q54. What effect do you think that competition in research is having on the production of high quality research?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	A very negative effect	83	12.6	15.6	15.6
		A negative effect	255	38.8	47.8	63.4
		No effect	30	4.6	5.6	69.0
		A positive effect	151	22.9	28.3	97.4
		A very positive effect	14	2.1	2.6	100.0
		Total	533	81.0	100.0	
	Missing	Don't know / can't say	57	8.7		
		System	68	10.3		
Total		125	19.0			
Total			658	100.0		
Mid-career researcher	Valid	A very negative effect	75	18.9	25.1	25.1
		A negative effect	145	36.5	48.5	73.6
		No effect	18	4.5	6.0	79.6
		A positive effect	58	14.6	19.4	99.0
		A very positive effect	3	.8	1.0	100.0
		Total	299	75.3	100.0	
	Missing	Don't know / can't say	23	5.8		
		System	75	18.9		
Total		98	24.7			
Total			397	100.0		
Junior researcher	Valid	A very negative effect	55	19.4	28.5	28.5
		A negative effect	105	37.0	54.4	82.9
		No effect	5	1.8	2.6	85.5
		A positive effect	28	9.9	14.5	100.0
		A very positive effect				
		Total	193	68.0	100.0	
	Missing	Don't know / can't say	31	10.9		
		System	60	21.1		
Total		91	32.0			
Total			284	100.0		
Research student	Valid	A very negative effect	16	10.7	21.3	21.3
		A negative effect	45	30.2	60.0	81.3
		No effect	2	1.3	2.7	84.0
		A positive effect	11	7.4	14.7	98.7
		A very positive effect	1	.7	1.3	100.0
		Total	75	50.3	100.0	
	Missing	Don't know / can't say	37	24.8		
		System	37	24.8		
Total		74	49.7			
Total			149	100.0		
Representative of an institution	Valid	A very negative effect	10	9.4	14.9	14.9
		A negative effect	40	37.7	59.7	74.6
		No effect	4	3.8	6.0	80.6
		A positive effect	12	11.3	17.9	98.5
		A very positive effect	1	.9	1.5	100.0
		Total	67	63.2	100.0	
	Missing	Don't know / can't say	17	16.0		
		System	22	20.8		
Total		39	36.8			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	A very negative effect	16	12.7	19.3	19.3
		A negative effect	35	27.8	42.2	61.4
		No effect	2	1.6	2.4	63.9
		A positive effect	30	23.8	36.1	100.0
		A very positive effect				
		Total	83	65.9	100.0	
	Missing	Don't know / can't say	37	29.4		
		System	6	4.8		
Total		43	34.1			
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	A very negative effect	4	8.3	16.0	16.0
		A negative effect	11	22.9	44.0	60.0
		No effect	1	2.1	4.0	64.0
		A positive effect	9	18.8	36.0	100.0
		A very positive effect				
		Total	25	52.1	100.0	
	Missing	Don't know / can't say	22	45.8		
		System	1	2.1		
Total		23	47.9			
Total			48	100.0		

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D. Pressures

q56. Have you experienced pressure from a research colleague to prove that his / her hypothesis was correct, even though the data you generated may not support the hypothesis?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Yes	129	19.6	21.9	21.9
		No	439	66.7	74.7	96.6
		Don't know / can't say	20	3.0	3.4	100.0
		Total	588	89.4	100.0	
	Missing	System	70	10.6		
Total			658	100.0		
Mid-career researcher	Valid	Yes	85	21.4	26.4	26.4
		No	224	56.4	69.6	96.0
		Don't know / can't say	13	3.3	4.0	100.0
		Total	322	81.1	100.0	
	Missing	System	75	18.9		
Total			397	100.0		
Junior researcher	Valid	Yes	52	18.3	23.1	23.1
		No	162	57.0	72.0	95.1
		Don't know / can't say	11	3.9	4.9	100.0
		Total	225	79.2	100.0	
	Missing	System	59	20.8		
Total			284	100.0		
Research student	Valid	Yes	15	10.1	13.4	13.4
		No	92	61.7	82.1	95.5
		Don't know / can't say	5	3.4	4.5	100.0
		Total	112	75.2	100.0	
	Missing	System	37	24.8		
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

q57. Has a research colleague ever asked you alter / suppress your results, or to select the best results which may not be representative of all the results?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Yes	84	12.8	14.3	14.3
		No	496	75.4	84.2	98.5
		Don't know / can't say	9	1.4	1.5	100.0
		Total	589	89.5	100.0	
	Missing	System	69	10.5		
Total			658	100.0		
Mid-career researcher	Valid	Yes	61	15.4	18.9	18.9
		No	258	65.0	80.1	99.1
		Don't know / can't say	3	.8	.9	100.0
		Total	322	81.1	100.0	
	Missing	System	75	18.9		
Total			397	100.0		
Junior researcher	Valid	Yes	43	15.1	19.0	19.0
		No	176	62.0	77.9	96.9
		Don't know / can't say	7	2.5	3.1	100.0
		Total	226	79.6	100.0	
	Missing	System	58	20.4		
Total			284	100.0		
Research student	Valid	Yes	15	10.1	13.4	13.4
		No	93	62.4	83.0	96.4
		Don't know / can't say	4	2.7	3.6	100.0
		Total	112	75.2	100.0	
	Missing	System	37	24.8		
Total			149	100.0		
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		

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E. Actions

q58a. The Excellence in Research for Australia (ERA) framework

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	18	2.7	3.9	3.9
		Negative effect overall	81	12.3	17.6	21.5
		No effect overall	206	31.3	44.7	66.2
		Positive effect overall	144	21.9	31.2	97.4
		Very positive effect overall	12	1.8	2.6	100.0
		Total	461	70.1	100.0	
	Missing	Don't know / can't say	113	17.2		
	System	84	12.8			
	Total	197	29.9			
	Total	658	100.0			
Mid-career researcher	Valid	Very negative effect overall	11	2.8	5.4	5.4
		Negative effect overall	23	5.8	11.3	16.7
		No effect overall	104	26.2	51.2	68.0
		Positive effect overall	64	16.1	31.5	99.5
		Very positive effect overall	1	.3	.5	100.0
		Total	203	51.1	100.0	
	Missing	Don't know / can't say	102	25.7		
	System	92	23.2			
	Total	194	48.9			
	Total	397	100.0			
Junior researcher	Valid	Very negative effect overall	2	.7	1.9	1.9
		Negative effect overall	14	4.9	13.0	14.8
		No effect overall	43	15.1	39.8	54.6
		Positive effect overall	44	15.5	40.7	95.4
		Very positive effect overall	5	1.8	4.6	100.0
		Total	108	38.0	100.0	
	Missing	Don't know / can't say	110	38.7		
	System	66	23.2			
	Total	176	62.0			
	Total	284	100.0			
Research student	Valid	Very negative effect overall	1	.7	3.2	3.2
		Negative effect overall	2	1.3	6.5	9.7
		No effect overall	5	3.4	16.1	25.8
		Positive effect overall	20	13.4	64.5	90.3
		Very positive effect overall	3	2.0	9.7	100.0
		Total	31	20.8	100.0	
	Missing	Don't know / can't say	75	50.3		
	System	43	28.9			
	Total	118	79.2			
	Total	149	100.0			
Representative of an institution	Valid	Very negative effect overall	1	.9	1.6	1.6
		Negative effect overall	14	13.2	22.2	23.8
		No effect overall	15	14.2	23.8	47.6
		Positive effect overall	28	26.4	44.4	92.1
		Very positive effect overall	5	4.7	7.9	100.0
		Total	63	59.4	100.0	
	Missing	Don't know / can't say	19	17.9		
	System	24	22.6			
	Total	43	40.6			
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	1	.8	1.7	1.7
		Negative effect overall	15	11.9	25.9	27.6
		No effect overall	9	7.1	15.5	43.1
		Positive effect overall	31	24.6	53.4	96.6
		Very positive effect overall	2	1.6	3.4	100.0
		Total	58	46.0	100.0	
	Missing	Don't know / can't say	57	45.2		
	System	11	8.7			
	Total	68	54.0			
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Negative effect overall	1	2.1	5.6	5.6
		No effect overall	3	6.3	16.7	22.2
		Positive effect overall	11	22.9	61.1	83.3
		Very positive effect overall	3	6.3	16.7	100.0
		Total	18	37.5	100.0	
		Missing	Don't know / can't say	26	54.2	
		System	4	8.3		
	Total	30	62.5			
	Total	48	100.0			

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E. Actions

q58b. International and national University rankings

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Valid	Very negative effect overall	31	4.7	5.7	5.7	
		Negative effect overall	131	19.9	24.1	29.8	
		No effect overall	231	35.1	42.5	72.4	
		Positive effect overall	143	21.7	26.3	98.7	
		Very positive effect overall	7	1.1	1.3	100.0	
		Total	543	82.5	100.0		
	Missing	Don't know / can't say	33	5.0			
		System	82	12.5			
		Total	115	17.5			
	Total			658	100.0		
Mid-career researcher	Valid	Very negative effect overall	14	3.5	5.2	5.2	
		Negative effect overall	64	16.1	23.6	28.8	
		No effect overall	115	29.0	42.4	71.2	
		Positive effect overall	76	19.1	28.0	99.3	
		Very positive effect overall	2	.5	.7	100.0	
		Total	271	68.3	100.0		
	Missing	Don't know / can't say	32	8.1			
		System	94	23.7			
		Total	126	31.7			
	Total			397	100.0		
Junior researcher	Valid	Very negative effect overall	10	3.5	5.6	5.6	
		Negative effect overall	40	14.1	22.2	27.8	
		No effect overall	65	22.9	36.1	63.9	
		Positive effect overall	61	21.5	33.9	97.8	
		Very positive effect overall	4	1.4	2.2	100.0	
		Total	180	63.4	100.0		
	Missing	Don't know / can't say	37	13.0			
		System	67	23.6			
		Total	104	36.6			
	Total			284	100.0		
Research student	Valid	Very negative effect overall	2	1.3	2.9	2.9	
		Negative effect overall	13	8.7	19.1	22.1	
		No effect overall	21	14.1	30.9	52.9	
		Positive effect overall	29	19.5	42.6	95.6	
		Very positive effect overall	3	2.0	4.4	100.0	
		Total	68	45.6	100.0		
	Missing	Don't know / can't say	38	25.5			
		System	43	28.9			
		Total	81	54.4			
	Total			149	100.0		
Representative of an institution	Valid	Very negative effect overall	1	.9	1.5	1.5	
		Negative effect overall	19	17.9	28.8	30.3	
		No effect overall	20	18.9	30.3	60.6	
		Positive effect overall	24	22.6	36.4	97.0	
		Very positive effect overall	2	1.9	3.0	100.0	
		Total	66	62.3	100.0		
	Missing	Don't know / can't say	14	13.2			
		System	26	24.5			
		Total	40	37.7			
	Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	3	2.4	3.5	3.5	
		Negative effect overall	21	16.7	24.4	27.9	
		No effect overall	14	11.1	16.3	44.2	
		Positive effect overall	46	36.5	53.5	97.7	
		Very positive effect overall	2	1.6	2.3	100.0	
		Total	86	68.3	100.0		
	Missing	Don't know / can't say	28	22.2			
		System	12	9.5			
		Total	40	31.7			
	Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Negative effect overall	1	2.1	4.2	4.2	
		No effect overall	6	12.5	25.0	29.2	
		Positive effect overall	15	31.3	62.5	91.7	
		Very positive effect overall	2	4.2	8.3	100.0	
		Total	24	50.0	100.0		
		Missing	Don't know / can't say	21	43.8		
	System		3	6.3			
	Total		24	50.0			
	Total			48	100.0		

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E. Actions

q58c. How funding for specific projects and programmes is awarded

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	73	11.1	13.2	13.2
		Negative effect overall	215	32.7	38.9	52.2
		No effect overall	78	11.9	14.1	66.3
		Positive effect overall	165	25.1	29.9	96.2
		Very positive effect overall	21	3.2	3.8	100.0
		Total	552	83.9	100.0	
	Missing	Don't know / can't say	24	3.6		
		System	82	12.5		
Total			106	16.1		
Total			658	100.0		
Mid-career researcher	Valid	Very negative effect overall	48	12.1	17.1	17.1
		Negative effect overall	119	30.0	42.5	59.6
		No effect overall	24	6.0	8.6	68.2
		Positive effect overall	81	20.4	28.9	97.1
		Very positive effect overall	8	2.0	2.9	100.0
		Total	280	70.5	100.0	
	Missing	Don't know / can't say	20	5.0		
		System	97	24.4		
Total			117	29.5		
Total			397	100.0		
Junior researcher	Valid	Very negative effect overall	33	11.6	17.1	17.1
		Negative effect overall	84	29.6	43.5	60.6
		No effect overall	20	7.0	10.4	71.0
		Positive effect overall	48	16.9	24.9	95.9
		Very positive effect overall	8	2.8	4.1	100.0
		Total	193	68.0	100.0	
	Missing	Don't know / can't say	22	7.7		
		System	69	24.3		
Total			91	32.0		
Total			284	100.0		
Research student	Valid	Very negative effect overall	9	6.0	12.0	12.0
		Negative effect overall	26	17.4	34.7	46.7
		No effect overall	5	3.4	6.7	53.3
		Positive effect overall	32	21.5	42.7	96.0
		Very positive effect overall	3	2.0	4.0	100.0
		Total	75	50.3	100.0	
	Missing	Don't know / can't say	31	20.8		
		System	43	28.9		
Total			74	49.7		
Total			149	100.0		
Representative of an institution	Valid	Very negative effect overall	4	3.8	5.6	5.6
		Negative effect overall	23	21.7	31.9	37.5
		No effect overall	10	9.4	13.9	51.4
		Positive effect overall	30	28.3	41.7	93.1
		Very positive effect overall	5	4.7	6.9	100.0
		Total	72	67.9	100.0	
	Missing	Don't know / can't say	9	8.5		
		System	25	23.6		
Total			34	32.1		
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	5	4.0	5.8	5.8
		Negative effect overall	27	21.4	31.4	37.2
		No effect overall	7	5.6	8.1	45.3
		Positive effect overall	41	32.5	47.7	93.0
		Very positive effect overall	6	4.8	7.0	100.0
		Total	86	68.3	100.0	
	Missing	Don't know / can't say	27	21.4		
		System	13	10.3		
Total			40	31.7		
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Negative effect overall	8	16.7	28.6	28.6
		No effect overall	3	6.3	10.7	39.3
		Positive effect overall	15	31.3	53.6	92.9
		Very positive effect overall	2	4.2	7.1	100.0
		Total	28	58.3	100.0	
		Missing	Don't know / can't say	17	35.4	
	System		3	6.3		
	Total			20	41.7	
Total			48	100.0		

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E. Actions

q58d. How multidisciplinary & collaborative research is supported

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	53	8.1	9.7	9.7
		Negative effect overall	138	21.0	25.3	35.0
		No effect overall	107	16.3	19.6	54.7
		Positive effect overall	212	32.2	38.9	93.6
		Very positive effect overall	35	5.3	6.4	100.0
		Total	545	82.8	100.0	
	Missing	Don't know / can't say	31	4.7		
	System	82	12.5			
	Total	113	17.2			
	Total	658	100.0			
Mid-career researcher	Valid	Very negative effect overall	22	5.5	8.0	8.0
		Negative effect overall	56	14.1	20.3	28.3
		No effect overall	58	14.6	21.0	49.3
		Positive effect overall	118	29.7	42.8	92.0
		Very positive effect overall	22	5.5	8.0	100.0
		Total	276	69.5	100.0	
	Missing	Don't know / can't say	26	6.5		
	System	95	23.9			
	Total	121	30.5			
	Total	397	100.0			
Junior researcher	Valid	Very negative effect overall	14	4.9	7.5	7.5
		Negative effect overall	41	14.4	21.9	29.4
		No effect overall	23	8.1	12.3	41.7
		Positive effect overall	91	32.0	48.7	90.4
		Very positive effect overall	18	6.3	9.6	100.0
		Total	187	65.8	100.0	
	Missing	Don't know / can't say	28	9.9		
	System	69	24.3			
	Total	97	34.2			
	Total	284	100.0			
Research student	Valid	Negative effect overall	8	5.4	9.6	9.6
		No effect overall	10	6.7	12.0	21.7
		Positive effect overall	48	32.2	57.8	79.5
		Very positive effect overall	17	11.4	20.5	100.0
		Total	83	55.7	100.0	
		Missing	Don't know / can't say	23	15.4	
		System	43	28.9		
	Total	66	44.3			
	Total	149	100.0			
Representative of an institution	Valid	Very negative effect overall	3	2.8	4.1	4.1
		Negative effect overall	9	8.5	12.3	16.4
		No effect overall	12	11.3	16.4	32.9
		Positive effect overall	43	40.6	58.9	91.8
		Very positive effect overall	6	5.7	8.2	100.0
		Total	73	68.9	100.0	
	Missing	Don't know / can't say	8	7.5		
	System	25	23.6			
	Total	33	31.1			
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	4	3.2	4.3	4.3
		Negative effect overall	16	12.7	17.0	21.3
		No effect overall	6	4.8	6.4	27.7
		Positive effect overall	58	46.0	61.7	89.4
		Very positive effect overall	10	7.9	10.6	100.0
		Total	94	74.6	100.0	
	Missing	Don't know / can't say	20	15.9		
	System	12	9.5			
	Total	32	25.4			
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Negative effect overall	2	4.2	6.7	6.7
		Positive effect overall	23	47.9	76.7	83.3
		Very positive effect overall	5	10.4	16.7	100.0
		Total	30	62.5	100.0	
	Missing	Don't know / can't say	15	31.3		
		System	3	6.3		
		Total	18	37.5		
	Total	48	100.0			

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E. Actions

q58e. Support of open access publishing

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	14	2.1	2.6	2.6
		Negative effect overall	53	8.1	10.0	12.6
		No effect overall	262	39.8	49.3	62.0
		Positive effect overall	175	26.6	33.0	94.9
		Very positive effect overall	27	4.1	5.1	100.0
		Total	531	80.7	100.0	
	Missing	Don't know / can't say	46	7.0		
	System	81	12.3			
	Total	127	19.3			
	Total	658	100.0			
Mid-career researcher	Valid	Very negative effect overall	7	1.8	2.5	2.5
		Negative effect overall	19	4.8	6.8	9.3
		No effect overall	111	28.0	39.6	48.9
		Positive effect overall	114	28.7	40.7	89.6
		Very positive effect overall	29	7.3	10.4	100.0
		Total	280	70.5	100.0	
	Missing	Don't know / can't say	22	5.5		
	System	95	23.9			
	Total	117	29.5			
	Total	397	100.0			
Junior researcher	Valid	Very negative effect overall	5	1.8	2.6	2.6
		Negative effect overall	12	4.2	6.3	8.9
		No effect overall	56	19.7	29.2	38.0
		Positive effect overall	94	33.1	49.0	87.0
		Very positive effect overall	25	8.8	13.0	100.0
		Total	192	67.6	100.0	
	Missing	Don't know / can't say	24	8.5		
	System	68	23.9			
	Total	92	32.4			
	Total	284	100.0			
Research student	Valid	Negative effect overall	3	2.0	3.7	3.7
		No effect overall	16	10.7	19.8	23.5
		Positive effect overall	46	30.9	56.8	80.2
		Very positive effect overall	16	10.7	19.8	100.0
		Total	81	54.4	100.0	
		Missing	Don't know / can't say	25	16.8	
		System	43	28.9		
	Total	68	45.6			
	Total	149	100.0			
Representative of an institution	Valid	Very negative effect overall	1	.9	1.4	1.4
		Negative effect overall	5	4.7	7.2	8.7
		No effect overall	19	17.9	27.5	36.2
		Positive effect overall	35	33.0	50.7	87.0
		Very positive effect overall	9	8.5	13.0	100.0
		Total	69	65.1	100.0	
	Missing	Don't know / can't say	12	11.3		
	System	25	23.6			
	Total	37	34.9			
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	1	.8	1.2	1.2
		Negative effect overall	3	2.4	3.5	4.7
		No effect overall	17	13.5	19.8	24.4
		Positive effect overall	54	42.9	62.8	87.2
		Very positive effect overall	11	8.7	12.8	100.0
		Total	86	68.3	100.0	
	Missing	Don't know / can't say	28	22.2		
	System	12	9.5			
	Total	40	31.7			
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Negative effect overall	1	2.1	3.6	3.6
		No effect overall	5	10.4	17.9	21.4
		Positive effect overall	13	27.1	46.4	67.9
		Very positive effect overall	9	18.8	32.1	100.0
		Total	28	58.3	100.0	
		Missing	Don't know / can't say	17	35.4	
		System	3	6.3		
	Total	20	41.7			
	Total	48	100.0			

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E. Actions

q58f. The grant peer review system

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	95	14.4	16.7	16.7
		Negative effect overall	169	25.7	29.6	46.3
		No effect overall	68	10.3	11.9	58.2
		Positive effect overall	218	33.1	38.2	96.5
		Very positive effect overall	20	3.0	3.5	100.0
		Total	570	86.6	100.0	
	Missing	Don't know / can't say	8	1.2		
	System	80	12.2			
	Total	88	13.4			
Total			658	100.0		
Mid-career researcher	Valid	Very negative effect overall	52	13.1	17.7	17.7
		Negative effect overall	101	25.4	34.5	52.2
		No effect overall	34	8.6	11.6	63.8
		Positive effect overall	95	23.9	32.4	96.2
		Very positive effect overall	11	2.8	3.8	100.0
		Total	293	73.8	100.0	
	Missing	Don't know / can't say	9	2.3		
	System	95	23.9			
	Total	104	26.2			
Total			397	100.0		
Junior researcher	Valid	Very negative effect overall	21	7.4	11.2	11.2
		Negative effect overall	67	23.6	35.8	47.1
		No effect overall	28	9.9	15.0	62.0
		Positive effect overall	65	22.9	34.8	96.8
		Very positive effect overall	6	2.1	3.2	100.0
		Total	187	65.8	100.0	
	Missing	Don't know / can't say	29	10.2		
	System	68	23.9			
	Total	97	34.2			
Total			284	100.0		
Research student	Valid	Very negative effect overall	3	2.0	4.2	4.2
		Negative effect overall	18	12.1	25.0	29.2
		No effect overall	4	2.7	5.6	34.7
		Positive effect overall	37	24.8	51.4	86.1
		Very positive effect overall	10	6.7	13.9	100.0
		Total	72	48.3	100.0	
	Missing	Don't know / can't say	33	22.1		
	System	44	29.5			
	Total	77	51.7			
Total			149	100.0		
Representative of an institution	Valid	Very negative effect overall	3	2.8	4.3	4.3
		Negative effect overall	11	10.4	15.9	20.3
		No effect overall	7	6.6	10.1	30.4
		Positive effect overall	42	39.6	60.9	91.3
		Very positive effect overall	6	5.7	8.7	100.0
		Total	69	65.1	100.0	
	Missing	Don't know / can't say	12	11.3		
	System	25	23.6			
	Total	37	34.9			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	2	1.6	2.3	2.3
		Negative effect overall	15	11.9	17.0	19.3
		No effect overall	8	6.3	9.1	28.4
		Positive effect overall	55	43.7	62.5	90.9
		Very positive effect overall	8	6.3	9.1	100.0
		Total	88	69.8	100.0	
	Missing	Don't know / can't say	27	21.4		
	System	11	8.7			
	Total	38	30.2			
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Very negative effect overall	2	4.2	8.3	8.3
		Negative effect overall	4	8.3	16.7	25.0
		Positive effect overall	15	31.3	62.5	87.5
		Very positive effect overall	3	6.3	12.5	100.0
		Total	24	50.0	100.0	
		Missing	Don't know / can't say	21	43.8	
		System	3	6.3		
	Total	24	50.0			
Total			48	100.0		

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E. Actions

q58g. The journal peer review system

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Valid	Very negative effect overall	26	4.0	4.5	4.5	
		Negative effect overall	92	14.0	16.1	20.6	
		No effect overall	99	15.0	17.3	37.9	
		Positive effect overall	326	49.5	57.0	94.9	
		Very positive effect overall	29	4.4	5.1	100.0	
		Total	572	86.9	100.0		
	Missing	Don't know / can't say	6	.9			
		System	80	12.2			
		Total	86	13.1			
	Total			658	100.0		
Mid-career researcher	Valid	Very negative effect overall	13	3.3	4.4	4.4	
		Negative effect overall	49	12.3	16.6	21.0	
		No effect overall	59	14.9	20.0	41.0	
		Positive effect overall	158	39.8	53.6	94.6	
		Very positive effect overall	16	4.0	5.4	100.0	
		Total	295	74.3	100.0		
	Missing	Don't know / can't say	9	2.3			
		System	93	23.4			
		Total	102	25.7			
	Total			397	100.0		
Junior researcher	Valid	Very negative effect overall	10	3.5	4.9	4.9	
		Negative effect overall	35	12.3	17.1	22.0	
		No effect overall	39	13.7	19.0	41.0	
		Positive effect overall	108	38.0	52.7	93.7	
		Very positive effect overall	13	4.6	6.3	100.0	
		Total	205	72.2	100.0		
	Missing	Don't know / can't say	11	3.9			
		System	68	23.9			
		Total	79	27.8			
	Total			284	100.0		
Research student	Valid	Very negative effect overall	1	.7	1.1	1.1	
		Negative effect overall	11	7.4	12.2	13.3	
		No effect overall	11	7.4	12.2	25.6	
		Positive effect overall	54	36.2	60.0	85.6	
		Very positive effect overall	13	8.7	14.4	100.0	
		Total	90	60.4	100.0		
	Missing	Don't know / can't say	14	9.4			
		System	45	30.2			
		Total	59	39.6			
	Total			149	100.0		
Representative of an institution	Valid	Negative effect overall	10	9.4	15.2	15.2	
		No effect overall	10	9.4	15.2	30.3	
		Positive effect overall	38	35.8	57.6	87.9	
		Very positive effect overall	8	7.5	12.1	100.0	
		Total	66	62.3	100.0		
	Missing	Don't know / can't say	15	14.2			
		System	25	23.6			
		Total	40	37.7			
	Total			106	100.0		
	Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	3	2.4	3.1	3.1
Negative effect overall			4	3.2	4.2	7.3	
No effect overall			8	6.3	8.3	15.6	
Positive effect overall			70	55.6	72.9	88.5	
Very positive effect overall			11	8.7	11.5	100.0	
Total			96	76.2	100.0		
Missing		Don't know / can't say	19	15.1			
		System	11	8.7			
		Total	30	23.8			
Total			126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Very negative effect overall	1	2.1	3.2	3.2	
		Negative effect overall	1	2.1	3.2	6.5	
		No effect overall	5	10.4	16.1	22.6	
		Positive effect overall	22	45.8	71.0	93.5	
		Very positive effect overall	2	4.2	6.5	100.0	
		Total	31	64.6	100.0		
	Missing	Don't know / can't say	14	29.2			
		System	3	6.3			
		Total	17	35.4			
	Total			48	100.0		

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E. Actions

q58h. Media coverage of research

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	38	5.8	7.0	7.0
		Negative effect overall	136	20.7	25.0	31.9
		No effect overall	253	38.4	46.4	78.3
		Positive effect overall	112	17.0	20.6	98.9
		Very positive effect overall	6	.9	1.1	100.0
		Total	545	82.8	100.0	
	Missing	Don't know / can't say	30	4.6		
	System	83	12.6			
	Total	113	17.2			
	Total	658	100.0			
Mid-career researcher	Valid	Very negative effect overall	14	3.5	5.0	5.0
		Negative effect overall	73	18.4	26.1	31.1
		No effect overall	121	30.5	43.2	74.3
		Positive effect overall	66	16.6	23.6	97.9
		Very positive effect overall	6	1.5	2.1	100.0
		Total	280	70.5	100.0	
	Missing	Don't know / can't say	23	5.8		
	System	94	23.7			
	Total	117	29.5			
	Total	397	100.0			
Junior researcher	Valid	Very negative effect overall	9	3.2	4.8	4.8
		Negative effect overall	45	15.8	23.9	28.7
		No effect overall	63	22.2	33.5	62.2
		Positive effect overall	64	22.5	34.0	96.3
		Very positive effect overall	7	2.5	3.7	100.0
		Total	188	66.2	100.0	
	Missing	Don't know / can't say	27	9.5		
	System	69	24.3			
	Total	96	33.8			
	Total	284	100.0			
Research student	Valid	Very negative effect overall	6	4.0	7.6	7.6
		Negative effect overall	12	8.1	15.2	22.8
		No effect overall	23	15.4	29.1	51.9
		Positive effect overall	32	21.5	40.5	92.4
		Very positive effect overall	6	4.0	7.6	100.0
		Total	79	53.0	100.0	
	Missing	Don't know / can't say	27	18.1		
	System	43	28.9			
	Total	70	47.0			
	Total	149	100.0			
Representative of an institution	Valid	Very negative effect overall	5	4.7	6.8	6.8
		Negative effect overall	14	13.2	18.9	25.7
		No effect overall	26	24.5	35.1	60.8
		Positive effect overall	24	22.6	32.4	93.2
		Very positive effect overall	5	4.7	6.8	100.0
		Total	74	69.8	100.0	
	Missing	Don't know / can't say	7	6.6		
	System	25	23.6			
	Total	32	30.2			
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	3	2.4	3.4	3.4
		Negative effect overall	17	13.5	19.3	22.7
		No effect overall	21	16.7	23.9	46.6
		Positive effect overall	41	32.5	46.6	93.2
		Very positive effect overall	6	4.8	6.8	100.0
		Total	88	69.8	100.0	
	Missing	Don't know / can't say	26	20.6		
	System	12	9.5			
	Total	38	30.2			
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Very negative effect overall	1	2.1	3.1	3.1
		Negative effect overall	4	8.3	12.5	15.6
		No effect overall	10	20.8	31.3	46.9
		Positive effect overall	16	33.3	50.0	96.9
		Very positive effect overall	1	2.1	3.1	100.0
		Total	32	66.7	100.0	
	Missing	Don't know / can't say	13	27.1		
	System	3	6.3			
	Total	16	33.3			
	Total	48	100.0			

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E. Actions

q58i. How researchers are assessed for promotion during their careers

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	36	5.5	6.5	6.5
		Negative effect overall	164	24.9	29.8	36.3
		No effect overall	134	20.4	24.3	60.6
		Positive effect overall	206	31.3	37.4	98.0
		Very positive effect overall	11	1.7	2.0	100.0
		Total	551	83.7	100.0	
	Missing	Don't know / can't say	27	4.1		
		System	80	12.2		
		Total	107	16.3		
	Total			658	100.0	
Mid-career researcher	Valid	Very negative effect overall	31	7.8	10.8	10.8
		Negative effect overall	99	24.9	34.5	45.3
		No effect overall	61	15.4	21.3	66.6
		Positive effect overall	90	22.7	31.4	97.9
		Very positive effect overall	6	1.5	2.1	100.0
		Total	287	72.3	100.0	
	Missing	Don't know / can't say	16	4.0		
		System	94	23.7		
		Total	110	27.7		
	Total			397	100.0	
Junior researcher	Valid	Very negative effect overall	23	8.1	12.4	12.4
		Negative effect overall	81	28.5	43.8	56.2
		No effect overall	27	9.5	14.6	70.8
		Positive effect overall	49	17.3	26.5	97.3
		Very positive effect overall	5	1.8	2.7	100.0
		Total	185	65.1	100.0	
	Missing	Don't know / can't say	31	10.9		
		System	68	23.9		
		Total	99	34.9		
	Total			284	100.0	
Research student	Valid	Very negative effect overall	5	3.4	7.8	7.8
		Negative effect overall	32	21.5	50.0	57.8
		No effect overall	5	3.4	7.8	65.6
		Positive effect overall	18	12.1	28.1	93.8
		Very positive effect overall	4	2.7	6.3	100.0
		Total	64	43.0	100.0	
	Missing	Don't know / can't say	41	27.5		
		System	44	29.5		
		Total	85	57.0		
	Total			149	100.0	
Representative of an institution	Valid	Very negative effect overall	8	7.5	11.6	11.6
		Negative effect overall	23	21.7	33.3	44.9
		No effect overall	11	10.4	15.9	60.9
		Positive effect overall	22	20.8	31.9	92.8
		Very positive effect overall	5	4.7	7.2	100.0
		Total	69	65.1	100.0	
	Missing	Don't know / can't say	12	11.3		
		System	25	23.6		
		Total	37	34.9		
	Total			106	100.0	
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	10	7.9	12.8	12.8
		Negative effect overall	28	22.2	35.9	48.7
		No effect overall	10	7.9	12.8	61.5
		Positive effect overall	27	21.4	34.6	96.2
		Very positive effect overall	3	2.4	3.8	100.0
		Total	78	61.9	100.0	
	Missing	Don't know / can't say	35	27.8		
		System	13	10.3		
		Total	48	38.1		
	Total			126	100.0	
Current member of an Animal Ethics Committee (AEC)	Valid	Very negative effect overall	2	4.2	9.1	9.1
		Negative effect overall	6	12.5	27.3	36.4
		No effect overall	5	10.4	22.7	59.1
		Positive effect overall	7	14.6	31.8	90.9
		Very positive effect overall	2	4.2	9.1	100.0
		Total	22	45.8	100.0	
	Missing	Don't know / can't say	23	47.9		
		System	3	6.3		
		Total	26	54.2		
	Total			48	100.0	

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E. Actions

q58j. Provision of professional education, training and supervision

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	4	.6	.7	.7
		Negative effect overall	26	4.0	4.8	5.6
		No effect overall	159	24.2	29.6	35.1
		Positive effect overall	307	46.7	57.1	92.2
		Very positive effect overall	42	6.4	7.8	100.0
		Total	538	81.8	100.0	
	Missing	Don't know / can't say	35	5.3		
	System	85	12.9			
	Total	120	18.2			
	Total	658	100.0			
Mid-career researcher	Valid	Very negative effect overall	2	.5	.7	.7
		Negative effect overall	15	3.8	5.2	5.9
		No effect overall	72	18.1	25.0	30.9
		Positive effect overall	170	42.8	59.0	89.9
		Very positive effect overall	29	7.3	10.1	100.0
		Total	288	72.5	100.0	
	Missing	Don't know / can't say	15	3.8		
	System	94	23.7			
	Total	109	27.5			
	Total	397	100.0			
Junior researcher	Valid	Very negative effect overall	4	1.4	2.1	2.1
		Negative effect overall	12	4.2	6.3	8.3
		No effect overall	31	10.9	16.1	24.5
		Positive effect overall	121	42.6	63.0	87.5
		Very positive effect overall	24	8.5	12.5	100.0
		Total	192	67.6	100.0	
	Missing	Don't know / can't say	24	8.5		
	System	68	23.9			
	Total	92	32.4			
	Total	284	100.0			
Research student	Valid	Very negative effect overall	1	.7	1.2	1.2
		Negative effect overall	4	2.7	4.8	6.0
		No effect overall	12	8.1	14.3	20.2
		Positive effect overall	49	32.9	58.3	78.6
		Very positive effect overall	18	12.1	21.4	100.0
		Total	84	56.4	100.0	
	Missing	Don't know / can't say	21	14.1		
	System	44	29.5			
	Total	65	43.6			
	Total	149	100.0			
Representative of an institution	Valid	Negative effect overall	4	3.8	5.3	5.3
		No effect overall	7	6.6	9.3	14.7
		Positive effect overall	56	52.8	74.7	89.3
		Very positive effect overall	8	7.5	10.7	100.0
		Total	75	70.8	100.0	
		Missing	Don't know / can't say	6	5.7	
		System	25	23.6		
	Total	31	29.2			
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Negative effect overall	2	1.6	2.3	2.3
		No effect overall	7	5.6	8.0	10.2
		Positive effect overall	62	49.2	70.5	80.7
		Very positive effect overall	17	13.5	19.3	100.0
		Total	88	69.8	100.0	
		Missing	Don't know / can't say	23	18.3	
		System	15	11.9		
	Total	38	30.2			
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Negative effect overall	1	2.1	2.9	2.9
		No effect overall	2	4.2	5.9	8.8
		Positive effect overall	20	41.7	58.8	67.6
		Very positive effect overall	11	22.9	32.4	100.0
		Total	34	70.8	100.0	
		Missing	Don't know / can't say	11	22.9	
		System	3	6.3		
	Total	14	29.2			
	Total	48	100.0			

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E. Actions

q58k. Commercialisation of research

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent	
Senior researcher	Valid	Very negative effect overall	30	4.6	6.1	6.1	
		Negative effect overall	127	19.3	25.9	32.0	
		No effect overall	178	27.1	36.3	68.4	
		Positive effect overall	134	20.4	27.3	95.7	
		Very positive effect overall	21	3.2	4.3	100.0	
		Total	490	74.5	100.0		
	Missing	Don't know / can't say	82	12.5			
		System	86	13.1			
		Total	168	25.5			
	Total			658	100.0		
Mid-career researcher	Valid	Very negative effect overall	18	4.5	7.2	7.2	
		Negative effect overall	57	14.4	22.8	30.0	
		No effect overall	85	21.4	34.0	64.0	
		Positive effect overall	82	20.7	32.8	96.8	
		Very positive effect overall	8	2.0	3.2	100.0	
		Total	250	63.0	100.0		
	Missing	Don't know / can't say	52	13.1			
		System	95	23.9			
		Total	147	37.0			
	Total			397	100.0		
Junior researcher	Valid	Very negative effect overall	12	4.2	7.5	7.5	
		Negative effect overall	38	13.4	23.8	31.3	
		No effect overall	52	18.3	32.5	63.8	
		Positive effect overall	52	18.3	32.5	96.3	
		Very positive effect overall	6	2.1	3.8	100.0	
		Total	160	56.3	100.0		
	Missing	Don't know / can't say	56	19.7			
		System	68	23.9			
		Total	124	43.7			
	Total			284	100.0		
Research student	Valid	Very negative effect overall	2	1.3	3.1	3.1	
		Negative effect overall	18	12.1	28.1	31.3	
		No effect overall	14	9.4	21.9	53.1	
		Positive effect overall	25	16.8	39.1	92.2	
		Very positive effect overall	5	3.4	7.8	100.0	
		Total	64	43.0	100.0		
	Missing	Don't know / can't say	41	27.5			
		System	44	29.5			
		Total	85	57.0			
	Total			149	100.0		
Representative of an institution	Valid	Very negative effect overall	4	3.8	6.0	6.0	
		Negative effect overall	10	9.4	14.9	20.9	
		No effect overall	25	23.6	37.3	58.2	
		Positive effect overall	24	22.6	35.8	94.0	
		Very positive effect overall	4	3.8	6.0	100.0	
		Total	67	63.2	100.0		
	Missing	Don't know / can't say	13	12.3			
		System	26	24.5			
		Total	39	36.8			
	Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	4	3.2	4.8	4.8	
		Negative effect overall	26	20.6	31.0	35.7	
		No effect overall	20	15.9	23.8	59.5	
		Positive effect overall	30	23.8	35.7	95.2	
		Very positive effect overall	4	3.2	4.8	100.0	
		Total	84	66.7	100.0		
	Missing	Don't know / can't say	29	23.0			
		System	13	10.3			
		Total	42	33.3			
	Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Very negative effect overall	1	2.1	3.8	3.8	
		Negative effect overall	9	18.8	34.6	38.5	
		No effect overall	4	8.3	15.4	53.8	
		Positive effect overall	12	25.0	46.2	100.0	
		Total	26	54.2	100.0		
		Missing	Don't know / can't say	19	39.6		
	System		3	6.3			
	Total		22	45.8			
	Total			48	100.0		

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E. Actions

q58i. Ethical review processes

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	22	3.3	3.9	3.9
		Negative effect overall	40	6.1	7.1	11.0
		No effect overall	126	19.1	22.4	33.4
		Positive effect overall	321	48.8	57.0	90.4
		Very positive effect overall	54	8.2	9.6	100.0
		Total	563	85.6	100.0	
	Missing	Don't know / can't say	12	1.8		
	System	83	12.6			
	Total	95	14.4			
	Total	658	100.0			
Mid-career researcher	Valid	Very negative effect overall	6	1.5	2.1	2.1
		Negative effect overall	27	6.8	9.2	11.3
		No effect overall	61	15.4	20.9	32.2
		Positive effect overall	159	40.1	54.5	86.6
		Very positive effect overall	39	9.8	13.4	100.0
		Total	292	73.6	100.0	
	Missing	Don't know / can't say	12	3.0		
	System	93	23.4			
	Total	105	26.4			
	Total	397	100.0			
Junior researcher	Valid	Very negative effect overall	3	1.1	1.5	1.5
		Negative effect overall	14	4.9	7.0	8.5
		No effect overall	37	13.0	18.5	27.0
		Positive effect overall	113	39.8	56.5	83.5
		Very positive effect overall	33	11.6	16.5	100.0
		Total	200	70.4	100.0	
	Missing	Don't know / can't say	16	5.6		
	System	68	23.9			
	Total	84	29.6			
	Total	284	100.0			
Research student	Valid	Negative effect overall	7	4.7	7.8	7.8
		No effect overall	7	4.7	7.8	15.6
		Positive effect overall	44	29.5	48.9	64.4
		Very positive effect overall	32	21.5	35.6	100.0
		Total	90	60.4	100.0	
		Missing	Don't know / can't say	16	10.7	
		System	43	28.9		
	Total	59	39.6			
	Total	149	100.0			
Representative of an institution	Valid	Very negative effect overall	1	.9	1.3	1.3
		Negative effect overall	3	2.8	3.9	5.3
		No effect overall	6	5.7	7.9	13.2
		Positive effect overall	52	49.1	68.4	81.6
		Very positive effect overall	14	13.2	18.4	100.0
		Total	76	71.7	100.0	
	Missing	Don't know / can't say	5	4.7		
	System	25	23.6			
	Total	30	28.3			
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Negative effect overall	3	2.4	2.8	2.8
		No effect overall	7	5.6	6.6	9.4
		Positive effect overall	52	41.3	49.1	58.5
		Very positive effect overall	44	34.9	41.5	100.0
		Total	106	84.1	100.0	
		Missing	Don't know / can't say	4	3.2	
		System	16	12.7		
	Total	20	15.9			
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	No effect overall	3	6.3	8.3	8.3
		Positive effect overall	15	31.3	41.7	50.0
		Very positive effect overall	18	37.5	50.0	100.0
		Total	36	75.0	100.0	
	Missing	Don't know / can't say	8	16.7		
		System	4	8.3		
		Total	12	25.0		
	Total	48	100.0			

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E. Actions

q58m. Research governance and contractual processes

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	42	6.4	7.7	7.7
		Negative effect overall	97	14.7	17.8	25.5
		No effect overall	183	27.8	33.6	59.1
		Positive effect overall	197	29.9	36.1	95.2
		Very positive effect overall	26	4.0	4.8	100.0
		Total	545	82.8	100.0	
	Missing	Don't know / can't say	32	4.9		
	System	81	12.3			
	Total	113	17.2			
	Total	658	100.0			
Mid-career researcher	Valid	Very negative effect overall	22	5.5	8.2	8.2
		Negative effect overall	49	12.3	18.3	26.5
		No effect overall	78	19.6	29.1	55.6
		Positive effect overall	102	25.7	38.1	93.7
		Very positive effect overall	17	4.3	6.3	100.0
		Total	268	67.5	100.0	
	Missing	Don't know / can't say	34	8.6		
	System	95	23.9			
	Total	129	32.5			
	Total	397	100.0			
Junior researcher	Valid	Very negative effect overall	6	2.1	3.5	3.5
		Negative effect overall	31	10.9	17.9	21.4
		No effect overall	39	13.7	22.5	43.9
		Positive effect overall	82	28.9	47.4	91.3
		Very positive effect overall	15	5.3	8.7	100.0
		Total	173	60.9	100.0	
	Missing	Don't know / can't say	43	15.1		
	System	68	23.9			
	Total	111	39.1			
	Total	284	100.0			
Research student	Valid	Very negative effect overall	1	.7	1.5	1.5
		Negative effect overall	3	2.0	4.5	6.0
		No effect overall	11	7.4	16.4	22.4
		Positive effect overall	38	25.5	56.7	79.1
		Very positive effect overall	14	9.4	20.9	100.0
		Total	67	45.0	100.0	
	Missing	Don't know / can't say	36	24.2		
	System	46	30.9			
	Total	82	55.0			
	Total	149	100.0			
Representative of an institution	Valid	Very negative effect overall	2	1.9	2.6	2.6
		Negative effect overall	4	3.8	5.3	7.9
		No effect overall	18	17.0	23.7	31.6
		Positive effect overall	48	45.3	63.2	94.7
		Very positive effect overall	4	3.8	5.3	100.0
		Total	76	71.7	100.0	
	Missing	Don't know / can't say	5	4.7		
	System	25	23.6			
	Total	30	28.3			
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	2	1.6	2.0	2.0
		Negative effect overall	10	7.9	9.8	11.8
		No effect overall	17	13.5	16.7	28.4
		Positive effect overall	53	42.1	52.0	80.4
		Very positive effect overall	20	15.9	19.6	100.0
		Total	102	81.0	100.0	
	Missing	Don't know / can't say	12	9.5		
	System	12	9.5			
	Total	24	19.0			
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Negative effect overall	3	6.3	9.7	9.7
		No effect overall	6	12.5	19.4	29.0
		Positive effect overall	15	31.3	48.4	77.4
		Very positive effect overall	7	14.6	22.6	100.0
		Total	31	64.6	100.0	
		Missing	Don't know / can't say	14	29.2	
		System	3	6.3		
	Total	17	35.4			
	Total	48	100.0			

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E. Actions

q58n. Initiatives that promote integrity in research, such as codes of conduct

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	3	.5	.5	.5
		Negative effect overall	13	2.0	2.3	2.9
		No effect overall	144	21.9	25.8	28.7
		Positive effect overall	335	50.9	60.0	88.7
		Very positive effect overall	63	9.6	11.3	100.0
		Total	558	84.8	100.0	
	Missing	Don't know / can't say	15	2.3		
	System	85	12.9			
	Total	100	15.2			
	Total	658	100.0			
Mid-career researcher	Valid	Very negative effect overall	2	.5	.7	.7
		Negative effect overall	5	1.3	1.7	2.4
		No effect overall	66	16.6	22.6	25.0
		Positive effect overall	180	45.3	61.6	86.6
		Very positive effect overall	39	9.8	13.4	100.0
		Total	292	73.6	100.0	
	Missing	Don't know / can't say	10	2.5		
	System	95	23.9			
	Total	105	26.4			
	Total	397	100.0			
Junior researcher	Valid	Very negative effect overall	1	.4	.5	.5
		Negative effect overall	3	1.1	1.5	2.0
		No effect overall	41	14.4	20.9	23.0
		Positive effect overall	120	42.3	61.2	84.2
		Very positive effect overall	31	10.9	15.8	100.0
		Total	196	69.0	100.0	
	Missing	Don't know / can't say	19	6.7		
	System	69	24.3			
	Total	88	31.0			
	Total	284	100.0			
Research student	Valid	Negative effect overall	1	.7	1.2	1.2
		No effect overall	11	7.4	12.9	14.1
		Positive effect overall	48	32.2	56.5	70.6
		Very positive effect overall	25	16.8	29.4	100.0
		Total	85	57.0	100.0	
		Missing	Don't know / can't say	21	14.1	
		System	43	28.9		
	Total	64	43.0			
	Total	149	100.0			
Representative of an institution	Valid	Negative effect overall	3	2.8	3.8	3.8
		No effect overall	6	5.7	7.7	11.5
		Positive effect overall	60	56.6	76.9	88.5
		Very positive effect overall	9	8.5	11.5	100.0
		Total	78	73.6	100.0	
		Missing	Don't know / can't say	3	2.8	
		System	25	23.6		
	Total	28	26.4			
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Negative effect overall	2	1.6	1.9	1.9
		No effect overall	13	10.3	12.3	14.2
		Positive effect overall	60	47.6	56.6	70.8
		Very positive effect overall	31	24.6	29.2	100.0
		Total	106	84.1	100.0	
		Missing	Don't know / can't say	7	5.6	
		System	13	10.3		
	Total	20	15.9			
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Very negative effect overall	1	2.1	2.6	2.6
		Negative effect overall	1	2.1	2.6	5.3
		No effect overall	2	4.2	5.3	10.5
		Positive effect overall	20	41.7	52.6	63.2
		Very positive effect overall	14	29.2	36.8	100.0
		Total	38	79.2	100.0	
	Missing	Don't know / can't say	7	14.6		
	System	3	6.3			
	Total	10	20.8			
	Total	48	100.0			

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E. Actions

q58o. Data sharing policies

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	3	.5	.6	.6
		Negative effect overall	15	2.3	2.8	3.4
		No effect overall	154	23.4	28.9	32.3
		Positive effect overall	304	46.2	57.1	89.5
		Very positive effect overall	56	8.5	10.5	100.0
		Total	532	80.9	100.0	
	Missing	Don't know / can't say	42	6.4		
	System	84	12.8			
	Total	126	19.1			
Total			658	100.0		
Mid-career researcher	Valid	Very negative effect overall	1	.3	.4	.4
		Negative effect overall	13	3.3	4.6	4.9
		No effect overall	67	16.9	23.5	28.4
		Positive effect overall	162	40.8	56.8	85.3
		Very positive effect overall	42	10.6	14.7	100.0
		Total	285	71.8	100.0	
	Missing	Don't know / can't say	19	4.8		
	System	93	23.4			
	Total	112	28.2			
Total			397	100.0		
Junior researcher	Valid	Very negative effect overall	1	.4	.5	.5
		Negative effect overall	5	1.8	2.7	3.2
		No effect overall	39	13.7	20.9	24.1
		Positive effect overall	109	38.4	58.3	82.4
		Very positive effect overall	33	11.6	17.6	100.0
		Total	187	65.8	100.0	
	Missing	Don't know / can't say	28	9.9		
	System	69	24.3			
	Total	97	34.2			
Total			284	100.0		
Research student	Valid	Negative effect overall	1	.7	1.3	1.3
		No effect overall	7	4.7	9.0	10.3
		Positive effect overall	53	35.6	67.9	78.2
		Very positive effect overall	17	11.4	21.8	100.0
		Total	78	52.3	100.0	
		Missing	Don't know / can't say	28	18.8	
		System	43	28.9		
	Total	71	47.7			
Total			149	100.0		
Representative of an institution	Valid	Very negative effect overall	1	.9	1.3	1.3
		Negative effect overall	2	1.9	2.7	4.0
		No effect overall	19	17.9	25.3	29.3
		Positive effect overall	46	43.4	61.3	90.7
		Very positive effect overall	7	6.6	9.3	100.0
		Total	75	70.8	100.0	
	Missing	Don't know / can't say	6	5.7		
	System	25	23.6			
	Total	31	29.2			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	1	.8	1.1	1.1
		Negative effect overall	5	4.0	5.3	6.4
		No effect overall	13	10.3	13.8	20.2
		Positive effect overall	54	42.9	57.4	77.7
		Very positive effect overall	21	16.7	22.3	100.0
		Total	94	74.6	100.0	
	Missing	Don't know / can't say	19	15.1		
	System	13	10.3			
	Total	32	25.4			
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Negative effect overall	2	4.2	7.4	7.4
		No effect overall	2	4.2	7.4	14.8
		Positive effect overall	16	33.3	59.3	74.1
		Very positive effect overall	7	14.6	25.9	100.0
		Total	27	56.3	100.0	
		Missing	Don't know / can't say	18	37.5	
		System	3	6.3		
	Total	21	43.8			
Total			48	100.0		

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q58p. Monetary rewards for research achievements

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	71	10.8	14.2	14.2
		Negative effect overall	142	21.6	28.5	42.7
		No effect overall	192	29.2	38.5	81.2
		Positive effect overall	86	13.1	17.2	98.4
		Very positive effect overall	8	1.2	1.6	100.0
		Total	499	75.8	100.0	
	Missing	Don't know / can't say	77	11.7		
	System	82	12.5			
	Total	159	24.2			
	Total	658	100.0			
Mid-career researcher	Valid	Very negative effect overall	30	7.6	11.6	11.6
		Negative effect overall	68	17.1	26.4	38.0
		No effect overall	96	24.2	37.2	75.2
		Positive effect overall	54	13.6	20.9	96.1
		Very positive effect overall	10	2.5	3.9	100.0
		Total	258	65.0	100.0	
	Missing	Don't know / can't say	45	11.3		
	System	94	23.7			
	Total	139	35.0			
	Total	397	100.0			
Junior researcher	Valid	Very negative effect overall	17	6.0	10.0	10.0
		Negative effect overall	54	19.0	31.8	41.8
		No effect overall	46	16.2	27.1	68.8
		Positive effect overall	47	16.5	27.6	96.5
		Very positive effect overall	6	2.1	3.5	100.0
		Total	170	59.9	100.0	
	Missing	Don't know / can't say	45	15.8		
	System	69	24.3			
	Total	114	40.1			
	Total	284	100.0			
Research student	Valid	Very negative effect overall	7	4.7	10.0	10.0
		Negative effect overall	15	10.1	21.4	31.4
		No effect overall	20	13.4	28.6	60.0
		Positive effect overall	20	13.4	28.6	88.6
		Very positive effect overall	8	5.4	11.4	100.0
		Total	70	47.0	100.0	
	Missing	Don't know / can't say	36	24.2		
	System	43	28.9			
	Total	79	53.0			
	Total	149	100.0			
Representative of an institution	Valid	Very negative effect overall	9	8.5	13.4	13.4
		Negative effect overall	14	13.2	20.9	34.3
		No effect overall	23	21.7	34.3	68.7
		Positive effect overall	17	16.0	25.4	94.0
		Very positive effect overall	4	3.8	6.0	100.0
		Total	67	63.2	100.0	
	Missing	Don't know / can't say	13	12.3		
	System	26	24.5			
	Total	39	36.8			
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	6	4.8	7.8	7.8
		Negative effect overall	23	18.3	29.9	37.7
		No effect overall	21	16.7	27.3	64.9
		Positive effect overall	25	19.8	32.5	97.4
		Very positive effect overall	2	1.6	2.6	100.0
		Total	77	61.1	100.0	
	Missing	Don't know / can't say	35	27.8		
	System	14	11.1			
	Total	49	38.9			
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Very negative effect overall	1	2.1	3.4	3.4
		Negative effect overall	4	8.3	13.8	17.2
		No effect overall	7	14.6	24.1	41.4
		Positive effect overall	16	33.3	55.2	96.6
		Very positive effect overall	1	2.1	3.4	100.0
		Total	29	60.4	100.0	
	Missing	Don't know / can't say	16	33.3		
	System	3	6.3			
	Total	19	39.6			
	Total	48	100.0			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
E. Actions

q58q. Emphasis on publishing in top-tier journals

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Very negative effect overall	76	11.6	13.5	13.5
		Negative effect overall	171	26.0	30.4	44.0
		No effect overall	98	14.9	17.4	61.4
		Positive effect overall	200	30.4	35.6	97.0
		Very positive effect overall	17	2.6	3.0	100.0
		Total	562	85.4	100.0	
	Missing	Don't know / can't say	12	1.8		
	System	84	12.8			
	Total	96	14.6			
	Total	658	100.0			
Mid-career researcher	Valid	Very negative effect overall	41	10.3	14.0	14.0
		Negative effect overall	98	24.7	33.6	47.6
		No effect overall	51	12.8	17.5	65.1
		Positive effect overall	90	22.7	30.8	95.9
		Very positive effect overall	12	3.0	4.1	100.0
		Total	292	73.6	100.0	
	Missing	Don't know / can't say	11	2.8		
	System	94	23.7			
	Total	105	26.4			
	Total	397	100.0			
Junior researcher	Valid	Very negative effect overall	37	13.0	18.6	18.6
		Negative effect overall	70	24.6	35.2	53.8
		No effect overall	28	9.9	14.1	67.8
		Positive effect overall	52	18.3	26.1	94.0
		Very positive effect overall	12	4.2	6.0	100.0
		Total	199	70.1	100.0	
	Missing	Don't know / can't say	17	6.0		
	System	68	23.9			
	Total	85	29.9			
	Total	284	100.0			
Research student	Valid	Very negative effect overall	11	7.4	13.3	13.3
		Negative effect overall	27	18.1	32.5	45.8
		No effect overall	15	10.1	18.1	63.9
		Positive effect overall	21	14.1	25.3	89.2
		Very positive effect overall	9	6.0	10.8	100.0
		Total	83	55.7	100.0	
	Missing	Don't know / can't say	23	15.4		
	System	43	28.9			
	Total	66	44.3			
	Total	149	100.0			
Representative of an institution	Valid	Very negative effect overall	8	7.5	11.1	11.1
		Negative effect overall	17	16.0	23.6	34.7
		No effect overall	8	7.5	11.1	45.8
		Positive effect overall	32	30.2	44.4	90.3
		Very positive effect overall	7	6.6	9.7	100.0
		Total	72	67.9	100.0	
	Missing	Don't know / can't say	9	8.5		
	System	25	23.6			
	Total	34	32.1			
	Total	106	100.0			
Current member of a Human Research Ethics Committee (HREC)	Valid	Very negative effect overall	8	6.3	8.7	8.7
		Negative effect overall	24	19.0	26.1	34.8
		No effect overall	14	11.1	15.2	50.0
		Positive effect overall	37	29.4	40.2	90.2
		Very positive effect overall	9	7.1	9.8	100.0
		Total	92	73.0	100.0	
	Missing	Don't know / can't say	21	16.7		
	System	13	10.3			
	Total	34	27.0			
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	Very negative effect overall	1	2.1	3.1	3.1
		Negative effect overall	3	6.3	9.4	12.5
		No effect overall	4	8.3	12.5	25.0
		Positive effect overall	16	33.3	50.0	75.0
		Very positive effect overall	8	16.7	25.0	100.0
		Total	32	66.7	100.0	
	Missing	Don't know / can't say	13	27.1		
	System	3	6.3			
	Total	16	33.3			
	Total	48	100.0			

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E. Actions

q59mr. Of the following, who has the largest potential to improve research quality (directly or indirectly)? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	Funders	318	54.9%
		Publishers	142	24.5%
		Research group heads	300	51.8%
		Ethics committees	46	7.9%
		Department heads	72	12.4%
		Professional societies	53	9.2%
		Researchers	386	66.7%
		Research institutions	298	51.5%
		General public and politicians	37	6.4%
		None of the above		
		Don't know / can't say	1	0.2%
Number of Respondents			579	100.0%
Mid-career researcher	Valid	Funders	183	59.6%
		Publishers	92	30.0%
		Research group heads	132	43.0%
		Ethics committees	36	11.7%
		Department heads	37	12.1%
		Professional societies	24	7.8%
		Researchers	188	61.2%
		Research institutions	161	52.4%
		General public and politicians	18	5.9%
		None of the above		
		Don't know / can't say	1	0.3%
Number of Respondents			307	100.0%
Junior researcher	Valid	Funders	126	57.5%
		Publishers	59	26.9%
		Research group heads	104	47.5%
		Ethics committees	32	14.6%
		Department heads	27	12.3%
		Professional societies	12	5.5%
		Researchers	136	62.1%
		Research institutions	114	52.1%
		General public and politicians	16	7.3%
		None of the above		
		Don't know / can't say	1	0.5%
Number of Respondents			219	100.0%
Research student	Valid	Funders	62	56.9%
		Publishers	37	33.9%
		Research group heads	44	40.4%
		Ethics committees	18	16.5%
		Department heads	15	13.8%
		Professional societies	5	4.6%
		Researchers	71	65.1%
		Research institutions	51	46.8%
		General public and politicians	10	9.2%
		None of the above		
		Don't know / can't say	1	0.9%
Number of Respondents			109	100.0%
Representative of an institution	Valid	Funders	37	45.7%
		Publishers	17	21.0%
		Research group heads	35	43.2%
		Ethics committees	12	14.8%
		Department heads	18	22.2%
		Professional societies	9	11.1%
		Researchers	43	53.1%
		Research institutions	57	70.4%
		General public and politicians	8	9.9%
		None of the above		
		Don't know / can't say		
Number of Respondents			81	100.0%
Current member of a Human Research Ethics Committee (HREC)	Valid	Funders	40	34.2%
		Publishers	18	15.4%

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
E. Actions

q59mr. Of the following, who has the largest potential to improve research quality (directly or indirectly)? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
		Research group heads	41	35.0%
		Ethics committees	55	47.0%
		Department heads	24	20.5%
		Professional societies	21	17.9%
		Researchers	58	49.6%
		Research institutions	73	62.4%
		General public and politicians	5	4.3%
		None of the above	1	0.9%
		Don't know / can't say	1	0.9%
		Number of Respondents	117	100.0%
Current member of an Animal Ethics Committee (AEC)	Valid	Funders	18	39.1%
		Publishers	8	17.4%
		Research group heads	16	34.8%
		Ethics committees	19	41.3%
		Department heads	7	15.2%
		Professional societies	3	6.5%
		Researchers	27	58.7%
		Research institutions	28	60.9%
		General public and politicians	3	6.5%
		None of the above		
		Don't know / can't say	1	2.2%
		Number of Respondents	46	100.0%

q60mr. Which of the following actions by funders do you think has the largest potential to improve research quality? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents		
Senior researcher	Valid	Providing guidance for training of researchers about research quality	260	45.1%		
		Providing guidance for researchers on how to ensure research quality is addressed in grant applications	321	55.6%		
		Ensuring grant application processes support submission and assessment of critical and relevant information	345	59.8%		
		Ensuring appropriate training for peer review panel members about research quality	382	66.2%		
		Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	246	42.6%		
		Providing a publishing platform for all research outputs	166	28.8%		
		Providing public recognition of initiatives that ensure and promote research quality	171	29.6%		
		Providing appropriate / increased / improved funding	39	6.8%		
		Other	61	10.6%		
		None of the above	8	1.4%		
		Don't know / can't say	4	0.7%		
				Number of Respondents	577	100.0%
		Mid-career researcher	Valid	Providing guidance for training of researchers about research quality	136	44.6%
Providing guidance for researchers on how to ensure research quality is addressed in grant applications	169			55.4%		
Ensuring grant application processes support submission and assessment of critical and relevant information	169			55.4%		
Ensuring appropriate training for peer review panel members about research quality	206			67.5%		
Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	139			45.6%		
Providing a publishing platform for all research outputs	105			34.4%		
Providing public recognition of initiatives that ensure and promote research quality	95			31.1%		
Providing appropriate / increased / improved funding	28			9.2%		
Other	17			5.6%		
None of the above	4			1.3%		
Don't know / can't say	3			1.0%		
				Number of Respondents	305	100.0%

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
E. Actions

q60mr. Which of the following actions by funders do you think has the largest potential to improve research quality? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents		
Junior researcher	Valid	Providing guidance for training of researchers about research quality	92	42.0%		
		Providing guidance for researchers on how to ensure research quality is addressed in grant applications	130	59.4%		
		Ensuring grant application processes support submission and assessment of critical and relevant information	128	58.4%		
		Ensuring appropriate training for peer review panel members about research quality	138	63.0%		
		Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	115	52.5%		
		Providing a publishing platform for all research outputs	88	40.2%		
		Providing public recognition of initiatives that ensure and promote research quality	74	33.8%		
		Providing appropriate / increased / improved funding	18	8.2%		
		Other	11	5.0%		
		None of the above	4	1.8%		
		Don't know / can't say	5	2.3%		
		Number of Respondents			219	100.0%
		Research student	Valid	Providing guidance for training of researchers about research quality	56	51.4%
Providing guidance for researchers on how to ensure research quality is addressed in grant applications	67			61.5%		
Ensuring grant application processes support submission and assessment of critical and relevant information	74			67.9%		
Ensuring appropriate training for peer review panel members about research quality	73			67.0%		
Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	72			66.1%		
Providing a publishing platform for all research outputs	57			52.3%		
Providing public recognition of initiatives that ensure and promote research quality	44			40.4%		
Providing appropriate / increased / improved funding	7			6.4%		
Other	7			6.4%		
None of the above						
Don't know / can't say	2			1.8%		
Number of Respondents			109	100.0%		
Representative of an institution	Valid	Providing guidance for training of researchers about research quality	42	52.5%		
		Providing guidance for researchers on how to ensure research quality is addressed in grant applications	57	71.3%		
		Ensuring grant application processes support submission and assessment of critical and relevant information	50	62.5%		
		Ensuring appropriate training for peer review panel members about research quality	58	72.5%		
		Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	49	61.3%		
		Providing a publishing platform for all research outputs	23	28.8%		
		Providing public recognition of initiatives that ensure and promote research quality	42	52.5%		
		Providing appropriate / increased / improved funding	1	1.3%		
		Other	7	8.8%		
		None of the above				
		Don't know / can't say	1	1.3%		
Number of Respondents			80	100.0%		
Current member of a Human Research Ethics Committee (HREC)	Valid	Providing guidance for training of researchers about research quality	69	59.0%		
		Providing guidance for researchers on how to ensure research quality is addressed in grant applications	70	59.8%		
		Ensuring grant application processes support submission and assessment of critical and relevant information	70	59.8%		
		Ensuring appropriate training for peer review panel members about research quality	72	61.5%		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
E. Actions

q60mr. Which of the following actions by funders do you think has the largest potential to improve research quality? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents	
Current member of an Animal Ethics Committee (AEC)	Valid	Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	55	47.0%	
		Providing a publishing platform for all research outputs	36	30.8%	
		Providing public recognition of initiatives that ensure and promote research quality	51	43.6%	
		Providing appropriate / increased / improved funding			
		Other	5	4.3%	
		None of the above	1	0.9%	
		Don't know / can't say	10	8.5%	
		Number of Respondents		117	100.0%
		Providing guidance for training of researchers about research quality	26	56.5%	
		Providing guidance for researchers on how to ensure research quality is addressed in grant applications	25	54.3%	
		Ensuring grant application processes support submission and assessment of critical and relevant information	29	63.0%	
		Ensuring appropriate training for peer review panel members about research quality	30	65.2%	
		Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	26	56.5%	
		Providing a publishing platform for all research outputs	21	45.7%	
Providing public recognition of initiatives that ensure and promote research quality	19	41.3%			
Providing appropriate / increased / improved funding					
Other	4	8.7%			
None of the above					
Don't know / can't say	3	6.5%			
Number of Respondents		46	100.0%		

q61mr. Which of the following actions by academic / research institutions do you think has the largest potential to improve research quality? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents		
Senior researcher	Valid	Providing appropriate education and training for researchers about research quality	383	66.7%		
		Requiring compliance with best practice for research design in ethics and grant applications and publications	326	56.8%		
		Developing mentoring programs that address research quality as well as career development	400	69.7%		
		Rewarding researchers who perform high quality research	290	50.5%		
		Conducting audits to ensure maintenance of record keeping and responsible research practice	206	35.9%		
		Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	237	41.3%		
		Promoting an environment where high quality research and reproducible research is considered the required norm	488	85.0%		
		Providing increased funding / support	6	1.0%		
		Other	41	7.1%		
		None of the above				
		Don't know / can't say	6	1.0%		
		Number of Respondents		574	100.0%	
		Mid-career researcher	Valid	Providing appropriate education and training for researchers about research quality	200	66.0%
				Requiring compliance with best practice for research design in ethics and grant applications and publications	170	56.1%
Developing mentoring programs that address research quality as well as career development	206			68.0%		
Rewarding researchers who perform high quality research	167			55.1%		
Conducting audits to ensure maintenance of record keeping and responsible research practice	105			34.7%		
Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	149			49.2%		

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
E. Actions

q61mr. Which of the following actions by academic / research institutions do you think has the largest potential to improve research quality?
(Multiple Response)

q1. In what capacity are you participating in this survey?		Frequency	% of respondents		
Junior researcher		Promoting an environment where high quality research and reproducible research is considered the required norm	250	82.5%	
		Providing increased funding / support	4	1.3%	
		Other	19	6.3%	
		None of the above			
		Don't know / can't say	2	0.7%	
	Number of Respondents		303	100.0%	
	Valid	Providing appropriate education and training for researchers about research quality	142	64.8%	
		Requiring compliance with best practice for research design in ethics and grant applications and publications	119	54.3%	
		Developing mentoring programs that address research quality as well as career development	168	76.7%	
		Rewarding researchers who perform high quality research	104	47.5%	
		Conducting audits to ensure maintenance of record keeping and responsible research practice	91	41.6%	
		Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	112	51.1%	
		Promoting an environment where high quality research and reproducible research is considered the required norm	173	79.0%	
		Providing increased funding / support	3	1.4%	
		Other	10	4.6%	
None of the above		3	1.4%		
Don't know / can't say					
Number of Respondents		219	100.0%		
Research student	Valid	Providing appropriate education and training for researchers about research quality	83	76.1%	
		Requiring compliance with best practice for research design in ethics and grant applications and publications	67	61.5%	
		Developing mentoring programs that address research quality as well as career development	81	74.3%	
		Rewarding researchers who perform high quality research	57	52.3%	
		Conducting audits to ensure maintenance of record keeping and responsible research practice	51	46.8%	
		Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	69	63.3%	
		Promoting an environment where high quality research and reproducible research is considered the required norm	96	88.1%	
		Providing increased funding / support	2	1.8%	
		Other	4	3.7%	
		None of the above			
		Don't know / can't say	1	0.9%	
		Number of Respondents		109	100.0%
Representative of an institution	Valid	Providing appropriate education and training for researchers about research quality	69	86.3%	
		Requiring compliance with best practice for research design in ethics and grant applications and publications	53	66.3%	
		Developing mentoring programs that address research quality as well as career development	63	78.8%	
		Rewarding researchers who perform high quality research	46	57.5%	
		Conducting audits to ensure maintenance of record keeping and responsible research practice	43	53.8%	
		Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	43	53.8%	
		Promoting an environment where high quality research and reproducible research is considered the required norm	72	90.0%	
		Providing increased funding / support	1	1.3%	
		Other	3	3.8%	
		None of the above			
		Don't know / can't say			
		Number of Respondents		80	100.0%

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
E. Actions

q61mr. Which of the following actions by academic / research institutions do you think has the largest potential to improve research quality?
(Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents		
Current member of a Human Research Ethics Committee (HREC)	Valid	Providing appropriate education and training for researchers about research quality	99	84.6%		
		Requiring compliance with best practice for research design in ethics and grant applications and publications	83	70.9%		
		Developing mentoring programs that address research quality as well as career development	88	75.2%		
		Rewarding researchers who perform high quality research	51	43.6%		
		Conducting audits to ensure maintenance of record keeping and responsible research practice	64	54.7%		
		Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	53	45.3%		
		Promoting an environment where high quality research and reproducible research is considered the required norm	102	87.2%		
		Providing increased funding / support	1	0.9%		
		Other	3	2.6%		
		None of the above				
		Don't know / can't say	5	4.3%		
		Number of Respondents			117	100.0%
		Current member of an Animal Ethics Committee (AEC)	Valid	Providing appropriate education and training for researchers about research quality	36	78.3%
Requiring compliance with best practice for research design in ethics and grant applications and publications	41			89.1%		
Developing mentoring programs that address research quality as well as career development	32			69.6%		
Rewarding researchers who perform high quality research	23			50.0%		
Conducting audits to ensure maintenance of record keeping and responsible research practice	28			60.9%		
Encouraging open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	23			50.0%		
Promoting an environment where high quality research and reproducible research is considered the required norm	38			82.6%		
Providing increased funding / support	1			2.2%		
Other	2			4.3%		
None of the above						
Don't know / can't say	2			4.3%		
Number of Respondents				46	100.0%	

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
E. Actions

q62mr. Which of the following actions by researchers do you think has the largest potential to improve research quality? (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	Participation in appropriate education and training about research quality	323	56.3%
		Specifying critical research design elements (e.g. power analysis, bias avoidance, randomisation, blinding)	423	73.7%
		Clearly distinguishing between discovery and hypothesis testing experiments	233	40.6%
		Obtaining statistical advice and developing a statistical plan before commencing a study	388	67.6%
		Pre-registration of research protocols	194	33.8%
		Appropriate disclosures of interests including funding sources	294	51.2%
		Replication by outside research groups	217	37.8%
		Use of reporting checklists	242	42.2%
		Reporting exclusions	226	39.4%
		Open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	219	38.2%
		Other	40	7.0%
		None of the above	7	1.2%
		Don't know / can't say	6	1.0%
		Number of Respondents		
Mid-career researcher	Valid	Participation in appropriate education and training about research quality	171	56.1%
		Specifying critical research design elements (e.g. power analysis, bias avoidance, randomisation, blinding)	216	70.8%
		Clearly distinguishing between discovery and hypothesis testing experiments	107	35.1%
		Obtaining statistical advice and developing a statistical plan before commencing a study	206	67.5%
		Pre-registration of research protocols	113	37.0%
		Appropriate disclosures of interests including funding sources	148	48.5%
		Replication by outside research groups	117	38.4%
		Use of reporting checklists	154	50.5%
		Reporting exclusions	133	43.6%
		Open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	135	44.3%
		Other	11	3.6%
		None of the above	2	0.7%
		Don't know / can't say	5	1.6%
		Number of Respondents		
Junior researcher	Valid	Participation in appropriate education and training about research quality	127	58.3%
		Specifying critical research design elements (e.g. power analysis, bias avoidance, randomisation, blinding)	141	64.7%
		Clearly distinguishing between discovery and hypothesis testing experiments	84	38.5%
		Obtaining statistical advice and developing a statistical plan before commencing a study	158	72.5%
		Pre-registration of research protocols	95	43.6%
		Appropriate disclosures of interests including funding sources	112	51.4%
		Replication by outside research groups	81	37.2%
		Use of reporting checklists	122	56.0%
		Reporting exclusions	88	40.4%
		Open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	119	54.6%
		Other	11	5.0%
		None of the above	4	1.8%
		Don't know / can't say		
		Number of Respondents		
Research student	Valid	Participation in appropriate education and training about research quality	73	67.0%
		Specifying critical research design elements (e.g. power analysis, bias avoidance, randomisation, blinding)	82	75.2%
		Clearly distinguishing between discovery and hypothesis testing experiments	35	32.1%
		Obtaining statistical advice and developing a statistical plan before commencing a study	79	72.5%
		Pre-registration of research protocols	50	45.9%
		Appropriate disclosures of interests including funding sources	58	53.2%

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
E. Actions

q62mr. Which of the following actions by researchers do you think has the largest potential to improve research quality? (Multiple Response)

q1. In what capacity are you participating in this survey?		Frequency	% of respondents
Representative of an institution		Replication by outside research groups	36 33.0%
		Use of reporting checklists	55 50.5%
		Reporting exclusions	45 41.3%
		Open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	66 60.6%
		Other	1 0.9%
		None of the above	
		Don't know / can't say	2 1.8%
		Number of Respondents	109 100.0%
	Valid	Participation in appropriate education and training about research quality	61 76.3%
		Specifying critical research design elements (e.g. power analysis, bias avoidance, randomisation, blinding)	60 75.0%
		Clearly distinguishing between discovery and hypothesis testing experiments	26 32.5%
		Obtaining statistical advice and developing a statistical plan before commencing a study	60 75.0%
		Pre-registration of research protocols	32 40.0%
		Appropriate disclosures of interests including funding sources	42 52.5%
		Replication by outside research groups	33 41.3%
	Use of reporting checklists	24 30.0%	
	Reporting exclusions	34 42.5%	
	Open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	43 53.8%	
	Other	2 2.5%	
	None of the above		
	Don't know / can't say	1 1.3%	
	Number of Respondents	80 100.0%	
Current member of a Human Research Ethics Committee (HREC)	Valid	Participation in appropriate education and training about research quality	85 72.6%
		Specifying critical research design elements (e.g. power analysis, bias avoidance, randomisation, blinding)	80 68.4%
		Clearly distinguishing between discovery and hypothesis testing experiments	52 44.4%
		Obtaining statistical advice and developing a statistical plan before commencing a study	74 63.2%
		Pre-registration of research protocols	41 35.0%
		Appropriate disclosures of interests including funding sources	69 59.0%
		Replication by outside research groups	40 34.2%
		Use of reporting checklists	40 34.2%
		Reporting exclusions	37 31.6%
		Open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	59 50.4%
		Other	4 3.4%
		None of the above	1 0.9%
		Don't know / can't say	4 3.4%
		Number of Respondents	117 100.0%
	Current member of an Animal Ethics Committee (AEC)	Valid	Participation in appropriate education and training about research quality
		Specifying critical research design elements (e.g. power analysis, bias avoidance, randomisation, blinding)	33 71.7%
		Clearly distinguishing between discovery and hypothesis testing experiments	21 45.7%
		Obtaining statistical advice and developing a statistical plan before commencing a study	37 80.4%
		Pre-registration of research protocols	10 21.7%
		Appropriate disclosures of interests including funding sources	24 52.2%
		Replication by outside research groups	16 34.8%
		Use of reporting checklists	15 32.6%
		Reporting exclusions	12 26.1%
		Open publishing practices e.g. data sharing, publishing openly (preprint servers, open access journals)	24 52.2%
		Other	1 2.2%
		None of the above	
		Don't know / can't say	4 8.7%
		Number of Respondents	46 100.0%

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
E. Actions

q63. Do you think that ensuring research quality adds to your workload?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	No, not at all	117	17.8	20.6	20.6
		Yes, a little	158	24.0	27.8	48.3
		Yes, a moderate amount	181	27.5	31.8	80.1
		Yes, a large amount	113	17.2	19.9	100.0
		Total	569	86.5	100.0	
	Missing	Don't know / can't say	4	.6		
		System	85	12.9		
Total	Total	89	13.5			
Mid-career researcher	Valid	No, not at all	63	15.9	21.0	21.0
		Yes, a little	93	23.4	31.0	52.0
		Yes, a moderate amount	87	21.9	29.0	81.0
		Yes, a large amount	57	14.4	19.0	100.0
		Total	300	75.6	100.0	
	Missing	Don't know / can't say	5	1.3		
		System	92	23.2		
Total	Total	97	24.4			
Junior researcher	Valid	No, not at all	36	12.7	17.1	17.1
		Yes, a little	69	24.3	32.7	49.8
		Yes, a moderate amount	62	21.8	29.4	79.1
		Yes, a large amount	44	15.5	20.9	100.0
		Total	211	74.3	100.0	
	Missing	Don't know / can't say	8	2.8		
		System	65	22.9		
Total	Total	73	25.7			
Research student	Valid	No, not at all	24	16.1	23.3	23.3
		Yes, a little	35	23.5	34.0	57.3
		Yes, a moderate amount	31	20.8	30.1	87.4
		Yes, a large amount	13	8.7	12.6	100.0
		Total	103	69.1	100.0	
	Missing	Don't know / can't say	7	4.7		
		System	39	26.2		
Total	Total	46	30.9			
Representative of an institution	Valid	No, not at all	6	5.7	8.1	8.1
		Yes, a little	23	21.7	31.1	39.2
		Yes, a moderate amount	25	23.6	33.8	73.0
		Yes, a large amount	20	18.9	27.0	100.0
		Total	74	69.8	100.0	
	Missing	Don't know / can't say	6	5.7		
		System	26	24.5		
Total	Total	32	30.2			
Current member of a Human Research Ethics Committee (HREC)	Valid	No, not at all	18	14.3	17.5	17.5
		Yes, a little	27	21.4	26.2	43.7
		Yes, a moderate amount	32	25.4	31.1	74.8
		Yes, a large amount	26	20.6	25.2	100.0
		Total	103	81.7	100.0	
	Missing	Don't know / can't say	12	9.5		
		System	11	8.7		
Total	Total	23	18.3			
Current member of an Animal Ethics Committee (AEC)	Valid	No, not at all	5	10.4	13.2	13.2
		Yes, a little	18	37.5	47.4	60.5
		Yes, a moderate amount	9	18.8	23.7	84.2
		Yes, a large amount	6	12.5	15.8	100.0
		Total	38	79.2	100.0	
	Missing	Don't know / can't say	7	14.6		
		System	3	6.3		
Total	Total	10	20.8			
Total	Total	48	100.0			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 F. Current and past behaviours

q64amr. Proposed research questions which are easy to answer rather than needed (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	256	47.6%
		Yes, I've done it myself	75	13.9%
		Yes, I've seen others do it	231	42.9%
	Number of Respondents		538	100.0%
Mid-career researcher	Valid	No	118	41.7%
		Yes, I've done it myself	57	20.1%
		Yes, I've seen others do it	131	46.3%
	Number of Respondents		283	100.0%
Junior researcher	Valid	No	102	49.8%
		Yes, I've done it myself	33	16.1%
		Yes, I've seen others do it	89	43.4%
	Number of Respondents		205	100.0%
Research student	Valid	No	63	64.3%
		Yes, I've done it myself	7	7.1%
		Yes, I've seen others do it	30	30.6%
	Number of Respondents		98	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
F. Current and past behaviours

q64bmr. Chosen an inadequate research design because it minimised costs (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	269	50.3%
		Yes, I've done it myself	93	17.4%
		Yes, I've seen others do it	210	39.3%
	Number of Respondents		535	100.0%
Mid-career researcher	Valid	No	136	47.2%
		Yes, I've done it myself	55	19.1%
		Yes, I've seen others do it	127	44.1%
	Number of Respondents		288	100.0%
Junior researcher	Valid	No	103	52.0%
		Yes, I've done it myself	33	16.7%
		Yes, I've seen others do it	77	38.9%
	Number of Respondents		198	100.0%
Research student	Valid	No	62	64.6%
		Yes, I've done it myself	3	3.1%
		Yes, I've seen others do it	31	32.3%
	Number of Respondents		96	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

q64cmr. Used unsuitable measurement methods because they were readily available (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	312	58.9%
		Yes, I've done it myself	38	7.2%
		Yes, I've seen others do it	194	36.6%
	Number of Respondents		530	100.0%
Mid-career researcher	Valid	No	165	59.1%
		Yes, I've done it myself	24	8.6%
		Yes, I've seen others do it	101	36.2%
	Number of Respondents		279	100.0%
Junior researcher	Valid	No	121	62.1%
		Yes, I've done it myself	12	6.2%
		Yes, I've seen others do it	66	33.8%
	Number of Respondents		195	100.0%
Research student	Valid	No	66	67.3%
		Yes, I've done it myself	3	3.1%
		Yes, I've seen others do it	29	29.6%
	Number of Respondents		98	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 F. Current and past behaviours

q64dmr. Withheld information from a grant application that could have 'weakened' the application (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	331	65.0%
		Yes, I've done it myself	84	16.5%
		Yes, I've seen others do it	127	25.0%
	Number of Respondents		509	100.0%
Mid-career researcher	Valid	No	174	65.4%
		Yes, I've done it myself	35	13.2%
		Yes, I've seen others do it	77	28.9%
	Number of Respondents		266	100.0%
Junior researcher	Valid	No	127	66.8%
		Yes, I've done it myself	14	7.4%
		Yes, I've seen others do it	52	27.4%
	Number of Respondents		190	100.0%
Research student	Valid	No	67	85.9%
		Yes, I've done it myself	1	1.3%
		Yes, I've seen others do it	10	12.8%
	Number of Respondents		78	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 F. Current and past behaviours

q64emr. Stopped data collection earlier than planned, without the application of pre-planned monitoring and stopping rules, because the results were already statistically significant (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	442	88.0%
		Yes, I've done it myself	17	3.4%
		Yes, I've seen others do it	47	9.4%
	Number of Respondents		502	100.0%
Mid-career researcher	Valid	No	221	85.7%
		Yes, I've done it myself	8	3.1%
		Yes, I've seen others do it	31	12.0%
	Number of Respondents		258	100.0%
Junior researcher	Valid	No	168	87.5%
		Yes, I've done it myself	3	1.6%
		Yes, I've seen others do it	23	12.0%
	Number of Respondents		192	100.0%
Research student	Valid	No	77	89.5%
		Yes, I've done it myself	1	1.2%
		Yes, I've seen others do it	8	9.3%
	Number of Respondents		86	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 F. Current and past behaviours

q65amr. Excluded outlying data before performing data analysis without disclosure (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	427	78.3%
		Yes, I've done it myself	18	3.3%
		Yes, I've seen others do it	108	19.8%
	Number of Respondents		545	100.0%
Mid-career researcher	Valid	No	214	76.2%
		Yes, I've done it myself	8	2.8%
		Yes, I've seen others do it	64	22.8%
	Number of Respondents		281	100.0%
Junior researcher	Valid	No	154	77.0%
		Yes, I've done it myself	11	5.5%
		Yes, I've seen others do it	44	22.0%
	Number of Respondents		200	100.0%
Research student	Valid	No	82	83.7%
		Yes, I've done it myself	4	4.1%
		Yes, I've seen others do it	14	14.3%
	Number of Respondents		98	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
F. Current and past behaviours

q65bmr. Selected the statistical method that provided the desired result (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	354	65.1%
		Yes, I've done it myself	46	8.5%
		Yes, I've seen others do it	167	30.7%
	Number of Respondents		544	100.0%
Mid-career researcher	Valid	No	183	63.5%
		Yes, I've done it myself	23	8.0%
		Yes, I've seen others do it	93	32.3%
	Number of Respondents		288	100.0%
Junior researcher	Valid	No	125	63.1%
		Yes, I've done it myself	18	9.1%
		Yes, I've seen others do it	62	31.3%
	Number of Respondents		198	100.0%
Research student	Valid	No	71	74.0%
		Yes, I've done it myself	8	8.3%
		Yes, I've seen others do it	20	20.8%
	Number of Respondents		96	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

q65cmr. Performed data analyses not described in the study protocol without disclosure (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	384	78.9%
		Yes, I've done it myself	40	8.2%
		Yes, I've seen others do it	79	16.2%
	Number of Respondents		487	100.0%
Mid-career researcher	Valid	No	199	74.5%
		Yes, I've done it myself	25	9.4%
		Yes, I've seen others do it	53	19.9%
	Number of Respondents		267	100.0%
Junior researcher	Valid	No	138	74.2%
		Yes, I've done it myself	16	8.6%
		Yes, I've seen others do it	38	20.4%
	Number of Respondents		186	100.0%
Research student	Valid	No	82	87.2%
		Yes, I've done it myself	5	5.3%
		Yes, I've seen others do it	8	8.5%
	Number of Respondents		94	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
F. Current and past behaviours

q65dmr. Reported an incorrect downwardly rounded p-value (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	510	94.3%
		Yes, I've done it myself	3	0.6%
		Yes, I've seen others do it	30	5.5%
	Number of Respondents		541	100.0%
Mid-career researcher	Valid	No	273	95.5%
		Yes, I've done it myself	2	0.7%
		Yes, I've seen others do it	11	3.8%
	Number of Respondents		286	100.0%
Junior researcher	Valid	No	184	92.5%
		Yes, I've done it myself	1	0.5%
		Yes, I've seen others do it	15	7.5%
	Number of Respondents		199	100.0%
Research student	Valid	No	92	96.8%
		Yes, I've done it myself		
		Yes, I've seen others do it	3	3.2%
	Number of Respondents		95	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

q65emr. Incrementally added more data until the results became statistically significant (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	430	79.2%
		Yes, I've done it myself	43	7.9%
		Yes, I've seen others do it	84	15.5%
	Number of Respondents		543	100.0%
Mid-career researcher	Valid	No	223	78.2%
		Yes, I've done it myself	21	7.4%
		Yes, I've seen others do it	54	18.9%
	Number of Respondents		285	100.0%
Junior researcher	Valid	No	158	79.8%
		Yes, I've done it myself	9	4.5%
		Yes, I've seen others do it	35	17.7%
	Number of Respondents		198	100.0%
Research student	Valid	No	85	87.6%
		Yes, I've done it myself	3	3.1%
		Yes, I've seen others do it	10	10.3%
	Number of Respondents		97	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
F. Current and past behaviours

q65fmr. Concealed results that contradict earlier findings or hypotheses (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	485	87.4%
		Yes, I've done it myself	6	1.1%
		Yes, I've seen others do it	67	12.1%
	Number of Respondents		555	100.0%
Mid-career researcher	Valid	No	240	83.9%
		Yes, I've done it myself	2	0.7%
		Yes, I've seen others do it	46	16.1%
	Number of Respondents		286	100.0%
Junior researcher	Valid	No	164	80.8%
		Yes, I've done it myself	2	1.0%
		Yes, I've seen others do it	39	19.2%
	Number of Respondents		203	100.0%
Research student	Valid	No	83	84.7%
		Yes, I've done it myself	3	3.1%
		Yes, I've seen others do it	13	13.3%
	Number of Respondents		98	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

q65gmr. Fabricated / falsified data to complete a project or paper (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	516	93.1%
		Yes, I've done it myself	1	0.2%
		Yes, I've seen others do it	38	6.9%
	Number of Respondents		554	100.0%
Mid-career researcher	Valid	No	265	93.6%
		Yes, I've done it myself		
		Yes, I've seen others do it	18	6.4%
	Number of Respondents		283	100.0%
Junior researcher	Valid	No	195	95.1%
		Yes, I've done it myself		
		Yes, I've seen others do it	10	4.9%
	Number of Respondents		205	100.0%
Research student	Valid	No	90	91.8%
		Yes, I've done it myself	1	1.0%
		Yes, I've seen others do it	7	7.1%
	Number of Respondents		98	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
F. Current and past behaviours

q66amr. Not attempted to publish a valid 'negative' or 'neutral' study (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	305	57.5%
		Yes, I've done it myself	140	26.4%
		Yes, I've seen others do it	130	24.5%
	Number of Respondents		530	100.0%
Mid-career researcher	Valid	No	151	53.7%
		Yes, I've done it myself	78	27.8%
		Yes, I've seen others do it	79	28.1%
	Number of Respondents		281	100.0%
Junior researcher	Valid	No	112	55.4%
		Yes, I've done it myself	46	22.8%
		Yes, I've seen others do it	65	32.2%
	Number of Respondents		202	100.0%
Research student	Valid	No	58	64.4%
		Yes, I've done it myself	11	12.2%
		Yes, I've seen others do it	25	27.8%
	Number of Respondents		90	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

q66bmr. Reported an unexpected finding as having been hypothesised from the start (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	401	75.4%
		Yes, I've done it myself	52	9.8%
		Yes, I've seen others do it	90	16.9%
	Number of Respondents		532	100.0%
Mid-career researcher	Valid	No	204	73.1%
		Yes, I've done it myself	28	10.0%
		Yes, I've seen others do it	60	21.5%
	Number of Respondents		279	100.0%
Junior researcher	Valid	No	135	68.5%
		Yes, I've done it myself	21	10.7%
		Yes, I've seen others do it	50	25.4%
	Number of Respondents		197	100.0%
Research student	Valid	No	69	75.8%
		Yes, I've done it myself	10	11.0%
		Yes, I've seen others do it	15	16.5%
	Number of Respondents		91	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
F. Current and past behaviours

q66cmr. Not reported all study protocol stipulated results (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	415	84.2%
		Yes, I've done it myself	20	4.1%
		Yes, I've seen others do it	64	13.0%
	Number of Respondents		493	100.0%
Mid-career researcher	Valid	No	217	81.3%
		Yes, I've done it myself	8	3.0%
		Yes, I've seen others do it	47	17.6%
	Number of Respondents		267	100.0%
Junior researcher	Valid	No	154	78.6%
		Yes, I've done it myself	10	5.1%
		Yes, I've seen others do it	38	19.4%
	Number of Respondents		196	100.0%
Research student	Valid	No	74	83.1%
		Yes, I've done it myself	1	1.1%
		Yes, I've seen others do it	14	15.7%
	Number of Respondents		89	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

q66dmr. Selection of the best data for publication, rather than representative data (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	371	68.1%
		Yes, I've done it myself	45	8.3%
		Yes, I've seen others do it	146	26.8%
	Number of Respondents		545	100.0%
Mid-career researcher	Valid	No	199	68.6%
		Yes, I've done it myself	17	5.9%
		Yes, I've seen others do it	86	29.7%
	Number of Respondents		290	100.0%
Junior researcher	Valid	No	133	64.9%
		Yes, I've done it myself	15	7.3%
		Yes, I've seen others do it	64	31.2%
	Number of Respondents		205	100.0%
Research student	Valid	No	72	78.3%
		Yes, I've done it myself	5	5.4%
		Yes, I've seen others do it	17	18.5%
	Number of Respondents		92	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 F. Current and past behaviours

q66emr. Use of other researchers' ideas or phrases without permission or referencing (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	432	79.0%
		Yes, I've done it myself	3	0.5%
		Yes, I've seen others do it	113	20.7%
	Number of Respondents		547	100.0%
Mid-career researcher	Valid	No	219	75.0%
		Yes, I've done it myself	2	0.7%
		Yes, I've seen others do it	72	24.7%
	Number of Respondents		292	100.0%
Junior researcher	Valid	No	170	82.9%
		Yes, I've done it myself	1	0.5%
		Yes, I've seen others do it	35	17.1%
	Number of Respondents		205	100.0%
Research student	Valid	No	85	86.7%
		Yes, I've done it myself	2	2.0%
		Yes, I've seen others do it	11	11.2%
	Number of Respondents		98	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
F. Current and past behaviours

q66fmr. Not reported replication problems (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	436	88.3%
		Yes, I've done it myself	16	3.2%
		Yes, I've seen others do it	48	9.7%
	Number of Respondents		494	100.0%
Mid-career researcher	Valid	No	237	84.9%
		Yes, I've done it myself	11	3.9%
		Yes, I've seen others do it	34	12.2%
	Number of Respondents		279	100.0%
Junior researcher	Valid	No	161	86.6%
		Yes, I've done it myself	3	1.6%
		Yes, I've seen others do it	25	13.4%
	Number of Respondents		186	100.0%
Research student	Valid	No	74	86.0%
		Yes, I've done it myself	6	7.0%
		Yes, I've seen others do it	7	8.1%
	Number of Respondents		86	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

q66gmr. Selective citation (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	272	52.0%
		Yes, I've done it myself	82	15.7%
		Yes, I've seen others do it	200	38.2%
	Number of Respondents		523	100.0%
Mid-career researcher	Valid	No	166	58.5%
		Yes, I've done it myself	42	14.8%
		Yes, I've seen others do it	92	32.4%
	Number of Respondents		284	100.0%
Junior researcher	Valid	No	126	64.9%
		Yes, I've done it myself	18	9.3%
		Yes, I've seen others do it	60	30.9%
	Number of Respondents		194	100.0%
Research student	Valid	No	64	73.6%
		Yes, I've done it myself	8	9.2%
		Yes, I've seen others do it	17	19.5%
	Number of Respondents		87	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
F. Current and past behaviours

q67amr. Insufficiently reported study flaws and limitations (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	332	61.8%
		Yes, I've done it myself	27	5.0%
		Yes, I've seen others do it	192	35.8%
	Number of Respondents		537	100.0%
Mid-career researcher	Valid	No	185	65.1%
		Yes, I've done it myself	16	5.6%
		Yes, I've seen others do it	90	31.7%
	Number of Respondents		284	100.0%
Junior researcher	Valid	No	123	61.5%
		Yes, I've done it myself	13	6.5%
		Yes, I've seen others do it	71	35.5%
	Number of Respondents		200	100.0%
Research student	Valid	No	72	74.2%
		Yes, I've done it myself	6	6.2%
		Yes, I've seen others do it	21	21.6%
	Number of Respondents		97	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

q67bmr. Submitted or resubmitted a paper or grant application without consent from all authors (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	404	73.3%
		Yes, I've done it myself	16	2.9%
		Yes, I've seen others do it	133	24.1%
	Number of Respondents		551	100.0%
Mid-career researcher	Valid	No	207	70.6%
		Yes, I've done it myself	14	4.8%
		Yes, I've seen others do it	77	26.3%
	Number of Respondents		293	100.0%
Junior researcher	Valid	No	158	77.8%
		Yes, I've done it myself	5	2.5%
		Yes, I've seen others do it	41	20.2%
	Number of Respondents		203	100.0%
Research student	Valid	No	79	87.8%
		Yes, I've done it myself	2	2.2%
		Yes, I've seen others do it	10	11.1%
	Number of Respondents		90	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
F. Current and past behaviours

q67cmr. Duplication of a publication without disclosure (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	502	90.6%
		Yes, I've done it myself	1	0.2%
		Yes, I've seen others do it	51	9.2%
	Number of Respondents		554	100.0%
Mid-career researcher	Valid	No	275	92.9%
		Yes, I've done it myself		
		Yes, I've seen others do it	21	7.1%
	Number of Respondents		296	100.0%
Junior researcher	Valid	No	191	96.5%
		Yes, I've done it myself		
		Yes, I've seen others do it	7	3.5%
	Number of Respondents		198	100.0%
Research student	Valid	No	87	96.7%
		Yes, I've done it myself		
		Yes, I've seen others do it	3	3.3%
	Number of Respondents		90	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

q67dmr. Inappropriately added or omitted an author or contributor (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	369	66.7%
		Yes, I've done it myself	26	4.7%
		Yes, I've seen others do it	166	30.0%
	Number of Respondents		553	100.0%
Mid-career researcher	Valid	No	181	61.4%
		Yes, I've done it myself	12	4.1%
		Yes, I've seen others do it	109	36.9%
	Number of Respondents		295	100.0%
Junior researcher	Valid	No	129	63.5%
		Yes, I've done it myself	17	8.4%
		Yes, I've seen others do it	65	32.0%
	Number of Respondents		203	100.0%
Research student	Valid	No	67	72.0%
		Yes, I've done it myself	7	7.5%
		Yes, I've seen others do it	23	24.7%
	Number of Respondents		93	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 F. Current and past behaviours

q68amr. Modification of the results or conclusions of a study due to pressure of a sponsor / funder (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	503	91.5%
		Yes, I've done it myself	4	0.7%
		Yes, I've seen others do it	46	8.4%
	Number of Respondents		550	100.0%
Mid-career researcher	Valid	No	275	93.2%
		Yes, I've done it myself	2	0.7%
		Yes, I've seen others do it	19	6.4%
	Number of Respondents		295	100.0%
Junior researcher	Valid	No	185	91.6%
		Yes, I've done it myself	2	1.0%
		Yes, I've seen others do it	15	7.4%
	Number of Respondents		202	100.0%
Research student	Valid	No	87	92.6%
		Yes, I've done it myself		
		Yes, I've seen others do it	7	7.4%
	Number of Respondents		94	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
F. Current and past behaviours

q68bmr. Failure to disclose a sponsor / funder of a study (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	517	93.8%
		Yes, I've done it myself	1	0.2%
		Yes, I've seen others do it	33	6.0%
	Number of Respondents		551	100.0%
Mid-career researcher	Valid	No	278	94.6%
		Yes, I've done it myself	2	0.7%
		Yes, I've seen others do it	15	5.1%
	Number of Respondents		294	100.0%
Junior researcher	Valid	No	190	94.1%
		Yes, I've done it myself		
		Yes, I've seen others do it	12	5.9%
	Number of Respondents		202	100.0%
Research student	Valid	No	92	98.9%
		Yes, I've done it myself		
		Yes, I've seen others do it	1	1.1%
	Number of Respondents		93	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

q68cmr. Failure to disclose a relevant financial or intellectual conflict of interest (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	491	88.9%
		Yes, I've done it myself	2	0.4%
		Yes, I've seen others do it	61	11.1%
	Number of Respondents		552	100.0%
Mid-career researcher	Valid	No	259	87.8%
		Yes, I've done it myself		
		Yes, I've seen others do it	36	12.2%
	Number of Respondents		295	100.0%
Junior researcher	Valid	No	187	90.8%
		Yes, I've done it myself		
		Yes, I've seen others do it	19	9.2%
	Number of Respondents		206	100.0%
Research student	Valid	No	93	100.0%
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents		93	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 F. Current and past behaviours

q68dmr. Refused to share data (that you have the rights to share) with bona fide colleagues (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	461	83.2%
		Yes, I've done it myself	7	1.3%
		Yes, I've seen others do it	89	16.1%
	Number of Respondents		554	100.0%
Mid-career researcher	Valid	No	245	83.1%
		Yes, I've done it myself	2	0.7%
		Yes, I've seen others do it	49	16.6%
	Number of Respondents		295	100.0%
Junior researcher	Valid	No	180	87.4%
		Yes, I've done it myself		
		Yes, I've seen others do it	26	12.6%
	Number of Respondents		206	100.0%
Research student	Valid	No	87	90.6%
		Yes, I've done it myself	1	1.0%
		Yes, I've seen others do it	8	8.3%
	Number of Respondents		96	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
 F. Current and past behaviours

q68emr. Refused to respond to an allegation of a breach of research integrity (Multiple Response)

q1. In what capacity are you participating in this survey?			Frequency	% of respondents
Senior researcher	Valid	No	485	92.9%
		Yes, I've done it myself		
		Yes, I've seen others do it	37	7.1%
	Number of Respondents		522	100.0%
Mid-career researcher	Valid	No	272	94.1%
		Yes, I've done it myself	1	0.3%
		Yes, I've seen others do it	16	5.5%
	Number of Respondents		289	100.0%
Junior researcher	Valid	No	190	95.5%
		Yes, I've done it myself		
		Yes, I've seen others do it	9	4.5%
	Number of Respondents		199	100.0%
Research student	Valid	No	91	97.8%
		Yes, I've done it myself		
		Yes, I've seen others do it	2	2.2%
	Number of Respondents		93	100.0%
Representative of an institution	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of a Human Research Ethics Committee (HREC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			
Current member of an Animal Ethics Committee (AEC)	Valid	No		
		Yes, I've done it myself		
		Yes, I've seen others do it		
	Number of Respondents			

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
G. About you

q69. Are you:

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	Female	235	35.7	41.8	41.8
		Male	327	49.7	58.2	100.0
		Total	562	85.4	100.0	
	Missing	Prefer not to say	8	1.2		
		System	88	13.4		
Total	Total	96	14.6			
Total			658	100.0		
Mid-career researcher	Valid	Female	174	43.8	58.2	58.2
		Male	125	31.5	41.8	100.0
		Total	299	75.3	100.0	
	Missing	Prefer not to say	3	.8		
		System	95	23.9		
Total	Total	98	24.7			
Total			397	100.0		
Junior researcher	Valid	Female	155	54.6	73.1	73.1
		Male	57	20.1	26.9	100.0
		Total	212	74.6	100.0	
	Missing	Prefer not to say	4	1.4		
		System	68	23.9		
Total	Total	72	25.4			
Total			284	100.0		
Research student	Valid	Female	70	47.0	64.8	64.8
		Male	36	24.2	33.3	98.1
		X (Indeterminate / Intersex / Unspecified)	2	1.3	1.9	100.0
		Total	108	72.5	100.0	
	Missing	Prefer not to say	1	.7		
System		40	26.8			
Total	Total	41	27.5			
Total			149	100.0		
Representative of an institution	Valid	Female	47	44.3	58.8	58.8
		Male	33	31.1	41.3	100.0
		Total	80	75.5	100.0	
	Missing	Prefer not to say	1	.9		
		System	25	23.6		
Total	Total	26	24.5			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Female	57	45.2	50.4	50.4
		Male	56	44.4	49.6	100.0
		Total	113	89.7	100.0	
	Missing	Prefer not to say	4	3.2		
		System	9	7.1		
Total	Total	13	10.3			
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Female	23	47.9	51.1	51.1
		Male	22	45.8	48.9	100.0
		Total	45	93.8	100.0	
	Missing	Prefer not to say	1	2.1		
		System	2	4.2		
Total	Total	3	6.3			
Total			48	100.0		

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G. About you

q70. How old are you?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	25 - 34 years	1	.2	.2	.2
		35 - 44 years	65	9.9	11.5	11.7
		45 - 54 years	196	29.8	34.7	46.4
		55 - 64 years	230	35.0	40.7	87.1
		65 - 74 years	66	10.0	11.7	98.8
		75 years or older	7	1.1	1.2	100.0
	Total	565	85.9	100.0		
	Missing	Prefer not to say	6	.9		
	System	87	13.2			
	Total	93	14.1			
Total			658	100.0		
Mid-career researcher	Valid	25 - 34 years	23	5.8	7.7	7.7
		35 - 44 years	164	41.3	54.7	62.3
		45 - 54 years	94	23.7	31.3	93.7
		55 - 64 years	18	4.5	6.0	99.7
		65 - 74 years	1	.3	.3	100.0
		Total	300	75.6	100.0	
	Missing	Prefer not to say	2	.5		
		System	95	23.9		
	Total	97	24.4			
Total			397	100.0		
Junior researcher	Valid	18 - 24 years	4	1.4	1.9	1.9
		25 - 34 years	99	34.9	46.0	47.9
		35 - 44 years	81	28.5	37.7	85.6
		45 - 54 years	20	7.0	9.3	94.9
		55 - 64 years	10	3.5	4.7	99.5
		65 - 74 years	1	.4	.5	100.0
	Total	215	75.7	100.0		
	Missing	Prefer not to say	1	.4		
	System	68	23.9			
	Total	69	24.3			
Total			284	100.0		
Research student	Valid	18 - 24 years	11	7.4	10.0	10.0
		25 - 34 years	59	39.6	53.6	63.6
		35 - 44 years	22	14.8	20.0	83.6
		45 - 54 years	16	10.7	14.5	98.2
		55 - 64 years	2	1.3	1.8	100.0
		Total	110	73.8	100.0	
	Missing	System	39	26.2		
	Total			149	100.0	
Representative of an institution	Valid	18 - 24 years	1	.9	1.3	1.3
		25 - 34 years	8	7.5	10.0	11.3
		35 - 44 years	18	17.0	22.5	33.8
		45 - 54 years	25	23.6	31.3	65.0
		55 - 64 years	22	20.8	27.5	92.5
		65 - 74 years	6	5.7	7.5	100.0
	Total	80	75.5	100.0		
	Missing	Prefer not to say	1	.9		
	System	25	23.6			
	Total	26	24.5			
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	25 - 34 years	4	3.2	3.6	3.6
		35 - 44 years	15	11.9	13.4	17.0
		45 - 54 years	16	12.7	14.3	31.3
		55 - 64 years	37	29.4	33.0	64.3
		65 - 74 years	31	24.6	27.7	92.0
		75 years or older	9	7.1	8.0	100.0
	Total	112	88.9	100.0		
	Missing	Prefer not to say	6	4.8		
	System	8	6.3			
	Total	14	11.1			
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	25 - 34 years	1	2.1	2.2	2.2
		35 - 44 years	8	16.7	17.8	20.0
		45 - 54 years	9	18.8	20.0	40.0
		55 - 64 years	11	22.9	24.4	64.4
		65 - 74 years	11	22.9	24.4	88.9
		75 years or older	5	10.4	11.1	100.0
	Total	45	93.8	100.0		
Missing	System					

2019 Survey of research culture in NHMRC-funded institutions - Results by participant group
G. About you

q70. How old are you?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Missing	Prefer not to say		1	2.1		
	System		2	4.2		
	Total		3	6.3		
Total			48	100.0		

q71. How many years have you been working in research / your role / as a member or Chair of the ethics committee?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	3 to 10 years	3	.5	.5	.5
		More than 10 years	564	85.7	99.5	100.0
		Total	567	86.2	100.0	
	Missing	Prefer not to say	2	.3		
		System	89	13.5		
Total			658	100.0		
Mid-career researcher	Valid	3 to 10 years	90	22.7	29.9	29.9
		More than 10 years	211	53.1	70.1	100.0
		Total	301	75.8	100.0	
	Missing	Prefer not to say	1	.3		
		System	95	23.9		
Total			397	100.0		
Junior researcher	Valid	Less than 3 years	26	9.2	12.2	12.2
		3 to 10 years	141	49.6	66.2	78.4
		More than 10 years	46	16.2	21.6	100.0
		Total	213	75.0	100.0	
	Missing	Prefer not to say	3	1.1		
System		68	23.9			
Total			284	100.0		
Research student	Valid	Less than 3 years	50	33.6	45.5	45.5
		3 to 10 years	51	34.2	46.4	91.8
		More than 10 years	9	6.0	8.2	100.0
		Total	110	73.8	100.0	
	Missing	System	39	26.2		
Total			149	100.0		
Representative of an institution	Valid	Less than 3 years	25	23.6	31.6	31.6
		3 to 10 years	28	26.4	35.4	67.1
		More than 10 years	26	24.5	32.9	100.0
		Total	79	74.5	100.0	
	Missing	Prefer not to say	1	.9		
System		26	24.5			
Total			27	25.5		
Total			106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	Less than 3 years	46	36.5	39.7	39.7
		3 to 10 years	46	36.5	39.7	79.3
		More than 10 years	24	19.0	20.7	100.0
		Total	116	92.1	100.0	
	Missing	Prefer not to say	1	.8		
System		9	7.1			
Total			10	7.9		
Total			126	100.0		
Current member of an Animal Ethics Committee (AEC)	Valid	Less than 3 years	13	27.1	28.9	28.9
		3 to 10 years	16	33.3	35.6	64.4
		More than 10 years	16	33.3	35.6	100.0
		Total	45	93.8	100.0	
	Missing	Prefer not to say	1	2.1		
System		2	4.2			
Total			3	6.3		
Total			48	100.0		

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G. About you

q72. What type of institution are you primarily associated with?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	University	365	55.5	63.9	63.9
		Hospital	42	6.4	7.4	71.3
		Research institute	156	23.7	27.3	98.6
		Company	2	.3	.4	98.9
		Other	6	.9	1.1	100.0
		Total	571	86.8	100.0	
	Missing	System	87	13.2		
	Total	658	100.0			
Mid-career researcher	Valid	University	197	49.6	65.2	65.2
		Hospital	20	5.0	6.6	71.9
		Research institute	83	20.9	27.5	99.3
		Company	1	.3	.3	99.7
		Other	1	.3	.3	100.0
		Total	302	76.1	100.0	
	Missing	System	95	23.9		
	Total	397	100.0			
Junior researcher	Valid	University	146	51.4	67.6	67.6
		Hospital	7	2.5	3.2	70.8
		Research institute	61	21.5	28.2	99.1
		Other	2	.7	.9	100.0
		Total	216	76.1	100.0	
		Missing	System	68	23.9	
		Total	284	100.0		
Research student	Valid	University	78	52.3	70.9	70.9
		Hospital	10	6.7	9.1	80.0
		Research institute	18	12.1	16.4	96.4
		Company	1	.7	.9	97.3
		Other	3	2.0	2.7	100.0
		Total	110	73.8	100.0	
	Missing	System	39	26.2		
	Total	149	100.0			
Representative of an institution	Valid	University	49	46.2	60.5	60.5
		Hospital	9	8.5	11.1	71.6
		Research institute	22	20.8	27.2	98.8
		Other	1	.9	1.2	100.0
		Total	81	76.4	100.0	
		Missing	System	25	23.6	
		Total	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Valid	University	46	36.5	39.0	39.0
		Hospital	50	39.7	42.4	81.4
		Research institute	7	5.6	5.9	87.3
		Company	2	1.6	1.7	89.0
		Other	13	10.3	11.0	100.0
		Total	118	93.7	100.0	
	Missing	System	8	6.3		
	Total	126	100.0			
Current member of an Animal Ethics Committee (AEC)	Valid	University	25	52.1	54.3	54.3
		Hospital	4	8.3	8.7	63.0
		Research institute	8	16.7	17.4	80.4
		Company	3	6.3	6.5	87.0
		Other	6	12.5	13.0	100.0
		Total	46	95.8	100.0	
	Missing	System	2	4.2		
	Total	48	100.0			

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G. About you

q73. How many members are in your research group?

q1. In what capacity are you participating in this survey?			Frequency	Percent	Valid Percent	Cumulative Percent
Senior researcher	Valid	1 to 5 members	108	16.4	18.9	18.9
		6 to 10 members	213	32.4	37.4	56.3
		11 to 25 members	190	28.9	33.3	89.6
		26 to 50 members	40	6.1	7.0	96.7
		More than 50 members	19	2.9	3.3	100.0
		Total	570	86.6	100.0	
Missing	System	88	13.4			
Total		658	100.0			
Mid-career researcher	Valid	1 to 5 members	87	21.9	28.9	28.9
		6 to 10 members	92	23.2	30.6	59.5
		11 to 25 members	91	22.9	30.2	89.7
		26 to 50 members	20	5.0	6.6	96.3
		More than 50 members	11	2.8	3.7	100.0
		Total	301	75.8	100.0	
Missing	System	96	24.2			
Total		397	100.0			
Junior researcher	Valid	1 to 5 members	53	18.7	24.5	24.5
		6 to 10 members	61	21.5	28.2	52.8
		11 to 25 members	61	21.5	28.2	81.0
		26 to 50 members	30	10.6	13.9	94.9
		More than 50 members	11	3.9	5.1	100.0
		Total	216	76.1	100.0	
Missing	System	68	23.9			
Total		284	100.0			
Research student	Valid	1 to 5 members	31	20.8	28.7	28.7
		6 to 10 members	37	24.8	34.3	63.0
		11 to 25 members	29	19.5	26.9	89.8
		26 to 50 members	4	2.7	3.7	93.5
		More than 50 members	7	4.7	6.5	100.0
		Total	108	72.5	100.0	
Missing	System	41	27.5			
Total		149	100.0			
Representative of an institution	Missing	System	106	100.0		
Current member of a Human Research Ethics Committee (HREC)	Missing	System	126	100.0		
Current member of an Animal Ethics Committee (AEC)	Missing	System	48	100.0		