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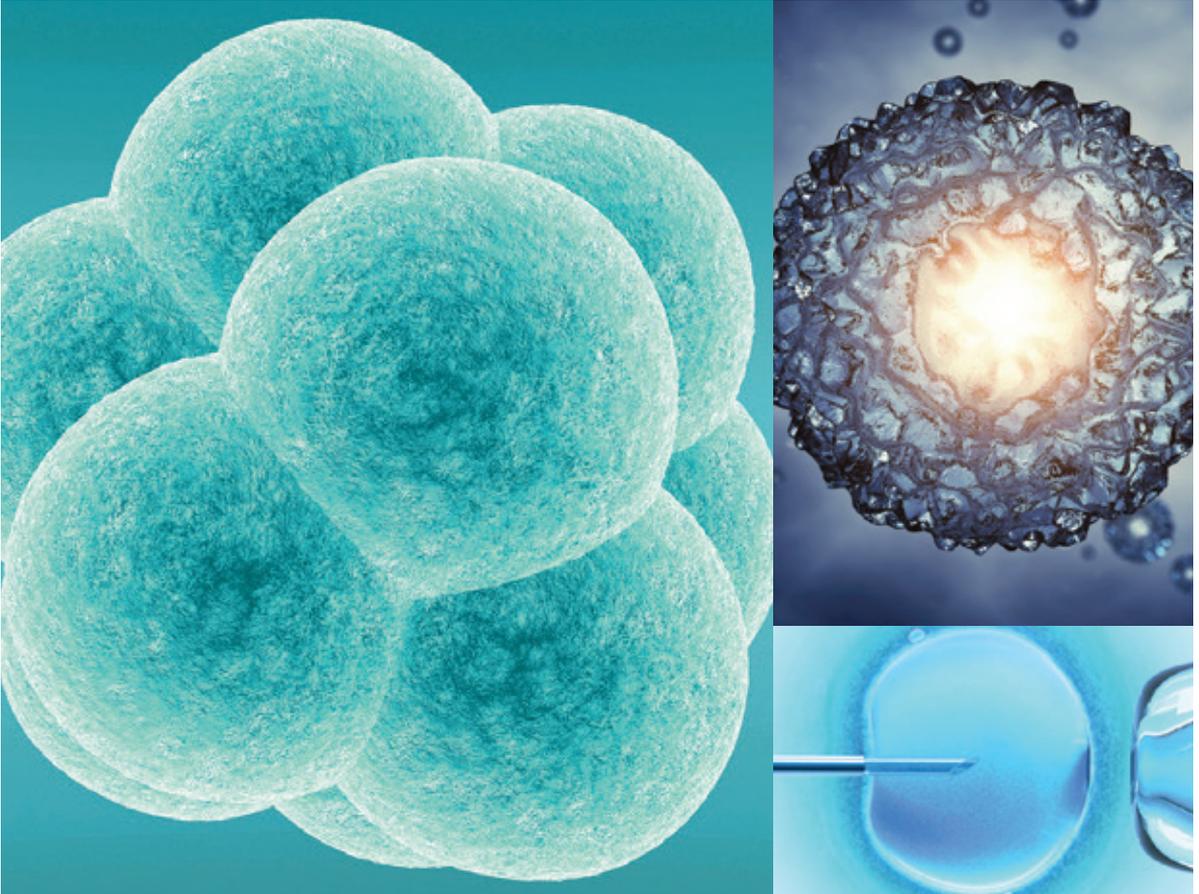
National Health and Medical Research Council

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NHMRC Embryo Research Licensing Committee

## Report to the Parliament of Australia

For the period 1 September 2020 to 28 February 2021



NHMRC

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The Hon Greg Hunt MP  
Minister for Health  
Parliament House  
Canberra ACT 2600

Dear Minister Hunt

I am pleased to present to you the thirty-seventh biannual report from the National Health and Medical Research Council (NHMRC) Embryo Research Licensing Committee (the NHMRC Licensing Committee), which, in accordance with section 19(3) of the *Research Involving Human Embryos Act 2002* (the Act), reports on the operation of the Act and the licences issued under it.

This report is for the period 1 September 2020 to 28 February 2021 and describes the activities the NHMRC Licensing Committee has undertaken during this reporting period, including associated monitoring and compliance activities.

The NHMRC Licensing Committee met once during this reporting period and considered one application seeking to vary previously issued licences for the use of excess assisted reproductive technology embryos and human eggs. In total 22 licences have been issued under the Act since the legislation commenced, of which six were current at 28 February 2021.

Yours sincerely

Professor Dianne Nicol  
Chairperson  
NHMRC Embryo Research Licensing Committee  
June 2021

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# Introduction

## Legislative framework

The Commonwealth *Prohibition of Human Cloning for Reproduction Act 2002* (PHCR Act) and *Research Involving Human Embryos Act 2002* (RIHE Act) were developed to address community concerns, including ethical concerns, about scientific developments in relation to human reproduction and the use of human embryos in research activities. The legislation prohibits human cloning for reproductive purposes and a range of other practices relating to reproductive technology. It also regulates research activities that involve the use of human embryos created by assisted reproductive technology (ART) or by other means. There are strong penalties for non-compliance with the legislation.

The RIHE Act established the Embryo Research Licensing Committee of the National Health and Medical Research Council (the NHMRC Licensing Committee) as a Principal Committee of the NHMRC. One of the functions of the NHMRC Licensing Committee is to consider applications for licences to conduct research involving human embryos. As required under section 29 of the RIHE Act, the NHMRC Licensing Committee maintains a publicly available database containing information about licences issued. This database can be accessed on the NHMRC website at [www.nhmrc.gov.au](http://www.nhmrc.gov.au).

In April 2002 and again in April 2007, the former Council of Australian Governments agreed to introduce nationally consistent legislation to support the regulatory framework. Information about the implementation of complementary state and territory legislation is included at **Appendix B** to this report.

## Reporting to Parliament

Section 19(3) of the RIHE Act requires the NHMRC Licensing Committee to table six-monthly reports in either House of Parliament on or before 30 June and 31 December each year, and at any other time as required by either House of Parliament. The reports must include information about the operation of the RIHE Act and about licences issued under this Act.

This is the thirty-seventh Parliamentary Report of the NHMRC Licensing Committee, which covers the period 1 September 2020 to 28 February 2021.

## Further information

Further information about this report and the issue of licences can be obtained by contacting:

Director, Governance, Regulation and Secretariat Support  
Research Quality and Priorities Branch  
NHMRC  
GPO Box 1421  
CANBERRA ACT 2601  
Telephone: 02 6217 9000  
Email: [embryo.research@nhmrc.gov.au](mailto:embryo.research@nhmrc.gov.au)  
Website: [www.nhmrc.gov.au](http://www.nhmrc.gov.au)

# Membership of the NHMRC Licensing Committee

The NHMRC Licensing Committee was established in May 2003 under the *Research Involving Human Embryos Act 2002* (RIHE Act). The nine-member NHMRC Licensing Committee is responsible for making statutory decisions as outlined in the RIHE Act.

Members are appointed by the Minister for Health, according to the process prescribed in the RIHE Act. Appointments are on a part-time basis for a period not exceeding three years with members eligible for reappointment.

NHMRC Licensing Committee appointments for the 2018–2021 NHMRC triennium commenced on 26 September 2018.

The membership of the NHMRC Licensing Committee is detailed at **Appendix A**.

## Functions

Established as a Principal Committee of the NHMRC, the functions of the NHMRC Licensing Committee are to:

- consider applications for licences to conduct research involving human embryos
- issue (subject to conditions) or not issue such licences
- maintain a publicly available database containing information about licences issued
- monitor licensed activities and ensure compliance with the legislation through the appointment of inspectors and take necessary enforcement action, such as cancelling or suspending licences
- report to the Parliament of Australia on the operation of the RIHE Act and the licences issued under this Act
- perform such other functions as are conferred on it by the RIHE Act or any other relevant law.

# Operation of the NHMRC Licensing Committee

## Committee meetings

During the reporting period the NHMRC Licensing Committee met on 1 December 2020.

## Consideration of licence applications

The NHMRC Licensing Committee continued its assessment of an application received in a previous reporting period.

## New licences issued

No licences were issued during the reporting period.

## Variations to existing licences

The RIHE Act empowers the NHMRC Licensing Committee to vary a licence issued under the Act. Variations to licences may either be requested by the licence holder or initiated by the Committee. Variations may be of an administrative nature (e.g. change to site address) or may relate to aspects of the authorised activities (e.g. number of embryos used).

During the reporting period the NHMRC Licensing Committee approved one variation to a licence, initiated by the licence holder, as follows:

- the variation involved a change to the list of persons authorised to conduct the licensed activity

Licence No.	Organisation	Date of variation	Brief description of variation
309726	Genea Limited	22 October 2020	Removal of authorised trainee from list of authorised persons

## Licences suspended

One licence (309723) remained suspended from the beginning of the reporting period until it expired on 19 December 2020. Further details are provided in this Report at the section titled 'Monitoring compliance with the legislation'.

## Expiry of licences

Licence 309725, issued to TasIVF Pty Ltd, expired on 1 September 2020.

Licence 309723, issued to Melbourne IVF Pty Ltd, expired on 19 December 2020.

# Progress of licensed activities

## Licence holder reports

Licence holders are required to report every six months on the progress of their licensed activities. The following reports on the progress of licensed activities are provided here as received from the licence holders.

### Current licences

<b>Licence number</b>	<b>309702B</b>
<b>Licence holder</b>	Genea Limited
<b>Licence title</b>	Development of methods for pre-implantation genetic and metabolic evaluation of human embryos
<b>Progress of licensed activity to date</b>	No work has been carried out in this reporting period.

<b>Licence number</b>	<b>309703</b>
<b>Licence holder</b>	Genea Limited
<b>Licence title</b>	Development of human embryonic stem (ES) cells
<b>Progress of licensed activity to date</b>	Under this licence we have derived a total of thirty (30) cell lines, four of which are karyotypically abnormal. Cell lines from this licence have been registered at the National Institutes of Health (NIH) registry and have been approved by the Steering Committee of the UK Stem Cell Bank for research use in the United Kingdom (UK). Cell lines are available to researchers worldwide for basic disease research and drug development projects. Various distribution services aid in this process.

<b>Licence number</b>	<b>309710</b>
<b>Licence holder</b>	Genea Limited
<b>Licence title</b>	Derivation of human embryonic stem cells from embryos identified through preimplantation genetic diagnosis to be affected by known serious monogenic conditions
<b>Progress of licensed activity to date</b>	Under this licence, a total of forty-six (46) affected stem cell lines have been derived, four of which are karyotypically abnormal. Cell lines from this licence have been registered at the NIH registry and have been approved by the Steering Committee of the UK Stem Cell Bank for research use in the UK. Cell lines are available to researchers worldwide for basic disease research and drug development projects. Various distribution services aid in this process.

<b>Licence number</b>	<b>309718</b>
<b>Licence holder</b>	Genea Limited
<b>Licence title</b>	Use of excess ART embryos and clinically unusable eggs for validation of an IVF device.
<b>Progress of licensed activity to date</b>	Over the lifetime of the project, clinically unsuitable abnormally fertilised eggs and excess-declared ART blastocysts have been used to develop an automated vitrification instrument (Gavi) for freezing of oocytes, zygotes/cleavage stage and blastocyst stage embryos. After the product development process, the instrument and associated consumables are CE marked products and are commercially distributed across several regions. The Gavi system has approved protocols for freezing of oocytes, zygotes/cleavage stage and blastocyst stage embryos. Further optimisations for the different developmental stages may be required as post market surveillance data is continuously monitored, and commercial success ascertained.

<b>Licence number</b>	<b>309719</b>
<b>Licence holder</b>	Genea Limited
<b>Licence title</b>	Use of excess ART embryos for the development of improved IVF culture media
<b>Progress of licensed activity to date</b>	<p>The current projects are centred around developing new products for inclusion within the Gems media suite. These projects, which vary widely depending on the product in question, are ongoing; some having utilised excess ART embryos already and some progressing to a stage where they are likely to do so.</p> <p>The use of clinically excess ART embryos in product development is essential. Animal models play a large part in progressing new media, but as their response is not always a true representation of how human embryos will respond, it is important to have a stage between animal model experiments and clinical use, improving confidence in the new products before subjecting patients to those new innovations.</p>

<b>Licence number</b>	<b>309726</b>
<b>Licence holder</b>	Genea Limited
<b>Licence title</b>	Use of excess ART embryos for training in an alternate biopsy method (day five hatch and biopsy)
<b>Progress of licensed activity to date</b>	Since the issue of the licence in June 2019 the consent process has been initiated. At this current time licenced activity has not commenced due the restrictions that COVID-19 has had on staff sharing workspaces, impacting training.

## Expired licences

<b>Licence number</b>	<b>309723</b>
<b>Licence holder</b>	IVF Australia Pty Ltd
<b>Licence title</b>	Use of excess ART embryos for blastocyst-stage biopsy training
<b>Progress of licensed activity to date</b>	There has been no activity since the last 6 monthly report.

<b>Licence number</b>	<b>309725</b>
<b>Licence holder</b>	TasIVF Pty Ltd
<b>Licence title</b>	Use of excess ART embryos for blastocyst-stage embryo biopsy training
<b>Progress of licensed activity to date</b>	Under this licence four scientists were trained in embryo biopsy, 121 excess embryos were thawed and 47 were used for blastocyst biopsy, of which 46 were biopsied successfully.

# Licensed use of excess ART embryos

The following tables show the use of excess ART embryos under licence, as at 28 February 2021.

## Current research licences

Licence number	Licence holder	Licence title	Embryos authorised to be used under licence	Embryos used in licensed activity up to 28 February 2021	Embryos used during the reporting period
309702B	Genea Limited	Development of methods for pre-implantation genetic and metabolic evaluation of human embryos	220	58	0
309703	Genea Limited	Development of human embryonic stem (ES) cells	300 (plus up to 20 inner cell masses which may be transferred from 309702A or 309702B)	249 (plus 12 embryos first used in 309702A and then transferred to 309703)	0
309710	Genea Limited	Derivation of human embryonic stem cells from embryos identified through preimplantation genetic diagnosis to be affected by known genetic conditions	500	304	0
309718	Genea Limited	Use of excess ART embryos and clinically unusable eggs for validation of an IVF device	345	259	0
309719	Genea Limited	Use of excess ART embryos for the development of improved IVF culture media	640	58	0
<b>Total for current licences</b>			<b>2005</b>	<b>928</b>	<b>0</b>

## Current training licences

Licence number	Licence holder	Licence title	Embryos per trainee authorised to be used under licence <sup>1</sup>	Number of active authorised trainees at 28 February 2021	Embryos used in licensed activity up to 28 February 2021 (total, all trainees) <sup>2</sup>	Embryos used during the reporting period (total, all trainees)
309726	Genea Limited	Use of excess ART embryos for training in an alternate biopsy method (day five hatch and biopsy)	25	16	0	0
<b>Total for current licences</b>					0	0

## Expired training licences

Licence number	Licence holder	Licence title	Embryos per trainee authorised to be used under licence <sup>3</sup>	Embryos used in licensed activity up to 28 February 2021 (total, all trainees) <sup>4</sup>	Embryos used during the reporting period (total, all trainees)
309723 <sup>5</sup>	Melbourne IVF Pty Ltd	Use of excess ART embryos for blastocyst-stage biopsy training	67 <sup>6</sup>	210	0
309725	TasIVF Pty Ltd	Use of excess ART embryos for blastocyst-stage embryo biopsy training	52	121	0

1 The Special Conditions of each licence permit this number of embryos to be removed from cryostorage and thawed in order to obtain a smaller number of suitable embryos for the training activity.

2 Reflects the total number of embryos removed from cryostorage across the period of the licence, noting that the total number of embryos authorised for use under each licence is dependent on the total number of authorised trainees and fluctuates as authorised trainees are added or removed from the licence.

3 The Special Conditions of each licence permit this number of embryos to be removed from cryostorage and thawed in order to obtain a smaller number of suitable embryos for the training activity.

4 Reflects the total number of embryos removed from cryostorage across the period of the licence, noting that the total number of embryos authorised for use under each licence is dependent on the total number of authorised trainees and fluctuates as authorised trainees are added or removed from the licence.

5 Licence 309723 was suspended on 18 December 2019 and remained suspended until expiry on 19 December 2020. No activity was permitted under this licence while it was suspended.

6 From 19 December 2014 to 10 December 2018 Melbourne IVF was permitted to thaw 50 embryos for each authorised trainee. From 11 December 2018, Melbourne IVF was permitted to thaw 67 embryos for each authorised trainee.

## Licensed use of human eggs or creation of other embryos

The following tables show the use of human eggs or creation of other embryos under licence, as at 28 February 2021. *Other embryos* is the term used in the RIHE Act to refer to human embryos created by processes other than fertilisation of a human egg by a human sperm.

### Current licences

Licence number	Licence holder	Licence title	Eggs authorised to be used under licence	Eggs used in licensed activity up to 28 February 2021	Eggs used during the reporting period
309718	Genea Limited	Use of excess ART embryos and clinically unusable eggs for validation of an IVF device	1000	407	0
<b>Total</b>			<b>1000</b>	<b>407</b>	<b>0</b>

# Monitoring compliance with the legislation

The NHMRC is committed to ensuring that individuals and licence holder organisations comply with both the RIHE Act and the PHCR Act. The legislation establishes a Monitoring and Compliance Framework, which involves the appointment of inspectors and the conduct of a range of monitoring and compliance activities. Further information about the Embryo Research Monitoring and Compliance Framework can be found on the NHMRC website at [www.nhmrc.gov.au/research-policy/embryo-research-licensing](http://www.nhmrc.gov.au/research-policy/embryo-research-licensing).

## Monitoring activities

NHMRC inspectors did not conduct any on-site licence inspections during the reporting period.

NHMRC inspectors held the following monitoring discussions during the reporting period:

Monitoring Activity	Monitoring Discussion
Licence Number	309703
Licence Holder	Genea Ltd
Monitoring Activity Date	20 October 2020
Licence Title	Development of Human Embryonic Stem (ES) Cells
Background	<ul style="list-style-type: none"> <li>Licence 309703 was issued on 16 April 2004.</li> <li>The outcomes of previous monitoring inspections were reported in the 4th, 6th, 8th, 9th, 11th, 15th, 19th, 25th and 28th NHMRC Embryo Research Licensing Committee Reports to Parliament.</li> </ul>
Summary of activities conducted during monitoring activity	<ul style="list-style-type: none"> <li>Discussed licensed activity conducted to date under Licence 309703.</li> <li>Provided guidance to ensure continued compliance with licence conditions and legislation.</li> <li>Obtained information on the licensed activities to keep the NHMRC Licensing Committee updated on the progress of the licence.</li> </ul>
Findings related to Licence Conditions and compliance with <i>Research Involving Human Embryos Act 2002</i>	<ul style="list-style-type: none"> <li>The NHMRC team was satisfied with the licence holder's processes.</li> <li>The licence holder provided all the information requested by the NHMRC team.</li> </ul>

## Monitoring compliance with the legislation

Monitoring Activity	Monitoring Discussion
Licence Number	<b>309710</b>
Licence Holder	<b>Genea Ltd</b>
Monitoring Activity Date	<b>20 October 2020</b>
Licence Title	<b>Derivation of human embryonic stem cells from embryos identified through preimplantation genetic diagnosis to be affected by known serious monogenic conditions</b>
Background	<ul style="list-style-type: none"> <li>Licence 309710 was issued on 7 May 2007.</li> <li>The outcomes of previous monitoring inspections were reported in the 10th, 12th, 15th, 20th, 25th and 28th NHMRC Embryo Research Licensing Committee Reports to Parliament.</li> </ul>
Summary of activities conducted during monitoring activity	<ul style="list-style-type: none"> <li>Reviewed licensed activity conducted to date under Licence 309710.</li> <li>Provided guidance to ensure continued compliance with licence conditions and legislation.</li> <li>Obtained information on the licensed activities to keep the NHMRC Licensing Committee updated on the progress of the licence.</li> </ul>
Findings related to Licence Conditions and compliance with <i>Research Involving Human Embryos Act 2002</i>	<ul style="list-style-type: none"> <li>The NHMRC team was satisfied with the licence holder's processes.</li> <li>The licence holder provided all the information requested by the NHMRC team.</li> </ul>

Monitoring Activity	Monitoring Discussion
Licence Number	<b>309719</b>
Licence Holder	<b>Genea Ltd</b>
Monitoring Activity Date	<b>20 October 2020</b>
Licence Title	<b>Use of excess ART embryos for the development of improved IVF culture media</b>
Background	<ul style="list-style-type: none"> <li>Licence 309719 was issued on 28 March 2012.</li> <li>The outcomes of a previous monitoring inspection was reported in the 33rd NHMRC Embryo Research Licensing Committee Report to Parliament.</li> </ul>
Summary of activities conducted during monitoring activity	<ul style="list-style-type: none"> <li>Reviewed licensed activity conducted to date under Licence 309719.</li> <li>Discussed the potential impact of the COVID-19 pandemic on licensed activities.</li> <li>Discussed the processes for managing consent and maintaining appropriate records relevant to the use of excess ART embryos under Licence 309719.</li> <li>Provided guidance to ensure continued compliance with licence conditions and legislation.</li> <li>Obtained information on the licensed activities to keep the NHMRC Licensing Committee updated on the progress of the licence.</li> </ul>
Findings related to Licence Conditions and compliance with <i>Research Involving Human Embryos Act 2002</i>	<ul style="list-style-type: none"> <li>The NHMRC team was satisfied with the licence holder's processes.</li> <li>The licence holder provided all the information requested by the NHMRC team.</li> </ul>

## Suspended Licence

Licence 309723 remained suspended from the beginning of the reporting period until it expired on 19 December 2020. The licence was suspended on 18 December 2019 as the NHMRC Licensing Committee believed, on reasonable grounds, that licence condition 2301 had been breached.

# Communication and awareness

The NHMRC Licensing Committee has published an information kit that can be accessed on the NHMRC website at: [www.nhmrc.gov.au](http://www.nhmrc.gov.au). Researchers and other interested people can contact the committee by e-mail or telephone. The committee responds to all queries received.

## Information exchange visits

No information exchange visits were conducted during this reporting period.

# Appendix A: Membership of the NHMRC Licensing Committee

Members of the NHMRC Licensing Committee for the 2018-2021 triennium are:

**Professor Dianne Nicol, Tasmania (Chairperson)**

*A person with expertise in a relevant area of law*

**Associate Professor Bernadette Richards, South Australia**

*A member of the Australian Health Ethics Committee (AHEC)*

**Professor Sheryl de Lacey, South Australia**

*A person with expertise in research ethics*

**Professor Justin St. John, South Australia**

*A person with expertise in a relevant area of research*

**Professor Stephen Robson, Australian Capital Territory**

*A person with expertise in assisted reproductive technology*

**Ms Dianne Petrie OAM, New South Wales**

*A person with expertise in consumer issues relating to disability and disease*

**Ms Kay Oke OAM, Victoria**

*A person with expertise in consumer issues relating to assisted reproductive technology*

**Ms Louise Johnson, Victoria**

*A person with expertise in the regulation of assisted reproductive technology*

**Professor Patrick Tam, New South Wales**

*A person with expertise in embryology*

# Appendix B: Corresponding state and territory legislation

Following the passage of the *Prohibition of Human Cloning and the Regulation of Human Embryo Research Amendment Act 2006*, embryo research in Australia must comply with both Commonwealth and corresponding state and territory legislation.

Victoria, New South Wales, Tasmania, Queensland, the Australian Capital Territory and South Australia have all passed amending complementary legislation. The relevant legislation for each state and territory has been declared to be a corresponding law by the Minister responsible for the *Research Involving Human Embryos Act 2002*.

The relevant state and territory legislation is as follows:

## **Victoria**

*Research Involving Human Embryos Act 2008*

## **New South Wales**

*Research Involving Human Embryos (New South Wales) Act 2003*

## **Tasmania**

*Human Embryonic Research Regulation Act 2003*

## **Queensland**

*Research Involving Human Embryos and Prohibition of Human Cloning for Reproduction Act 2003*

## **South Australia**

*Research Involving Human Embryos Act 2003*

## **Australian Capital Territory**

*Human Cloning and Embryo Research Act 2004*

# Appendix C: Glossary of Common Terms

Term	Description
AHEC	Australian Health Ethics Committee (a Principal Committee of the National Health and Medical Research Council).
Application for a licence	Application form for a licence to conduct research activities permitted under section 20(1) of the <i>Research Involving Human Embryos Act 2002</i> .
ART	Assisted reproductive technology.
ART embryo	A human embryo that was created by assisted reproductive technology for use in the assisted reproductive technology treatment of a woman.
Blastocyst	A 5 to 7 day-old embryo that has an outer layer of cells and a fluid filled cavity in which there is a cluster of cells called the inner cell mass.
COAG	The Council of Australian Governments was the peak intergovernmental forum in Australia. The members of COAG were the Prime Minister, state and territory Premiers and Chief Ministers and the President of the Australian Local Government Association.
Compliance	Ensuring that the requirements of the <i>Research Involving Human Embryos Act 2002</i> and the <i>Prohibition of Human Cloning for Reproduction Act 2002</i> are met.
Embryonic stem cell	An undifferentiated cell that is a precursor to many different cell types, obtained from a preimplantation embryo, usually at blastocyst stage.
Excess ART embryo	An ART embryo that is excess to the needs of the woman for whom it was created and her spouse (if any) at the time the embryo was created, as determined in writing by section 9 of the <i>Research Involving Human Embryos Act 2002</i> .
Gamete	A human sperm or egg (ovum or oocyte).
HREC	A human research ethics committee.
Human embryo clone	A human embryo that is a genetic copy of another living or dead human.
Information Exchange Visit	A pre-arranged visit by NHMRC inspectors to provide information about the legislation to interested stakeholders.
Inspection	An inspection of records, documents and premises to ensure compliance with licence conditions and the <i>Research Involving Human Embryos Act 2002</i> and the <i>Prohibition of Human Cloning for Reproduction Act 2002</i> .
Investigation	An inquiry into a suspected breach of the legislation with the aim of gathering evidence. An investigation may be initiated as a consequence of monitoring by NHMRC inspectors, self-reporting or third party reporting.
IVF	<i>In vitro</i> fertilisation.
Monitoring	Activities conducted to assess the level of compliance with licence conditions, the <i>Research Involving Human Embryos Act 2002</i> and the <i>Prohibition of Human Cloning for Reproduction Act 2002</i> .
NHMRC	National Health and Medical Research Council.
NHMRC Licensing Committee	The Embryo Research Licensing Committee of the National Health and Medical Research Council.
Other embryos	<i>Other embryos</i> is the term used in the <i>Research Involving Human Embryos Act 2002</i> to refer to human embryos created by processes other than fertilisation of a human egg by a human sperm.
Parthenogenetic	A process in which an unfertilised egg can be induced to develop like an embryo.

Term	Description
Preimplantation genetic diagnosis	A procedure used prior to implantation to detect serious genetic conditions, diseases or abnormalities, to which the gamete providers are known to be at risk, to carry or to be predisposed.
Proper Consent	Consent obtained in accordance with the <i>Ethical Guidelines on the use of Assisted Reproductive Technology in Clinical Practice and Research 2017</i> , issued by the NHMRC.
Somatic Cell Nuclear Transfer (SCNT)	A laboratory technique used to create a human embryo clone involving removing the nucleus of a human egg and replacing it with the genetic material from a somatic cell (such as a skin cell or fibroblast) or stem cell line.
SCNT Construct	An entity created by the process of SCNT, which may or may not divide to become an <i>other embryo</i> .

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