

**Successful applications for Urgent Research into a Potential Avian Influenza-Induced  
Pandemic Grants - 2006**

<b>GRANT TITLE</b>	<b>BUDGET</b>	<b>DURATION in months</b>	<b>CHIEF INVESTIGATOR (and Institution, if different from Administering Institution)</b>	<b>ADMINISTERING INSTITUTION</b>
<b>DETECTION AND IDENTIFICATION OF THE VIRUS</b>				
Development of National Protocols for the Detection of Influenza A H5N1	<b>\$248,230</b>	9	Dr Mike Catton	Melbourne Health
Highly pathogenic avian influenza (HPAI) improved diagnosis with quality assurance of serological & molecular diagnostics	<b>\$248,626</b>	12	Professor William Rawlinson	University of NSW
Novel, high-throughput platform for rapid identification, quantitation, differential diagnosis, and resistance testing of	<b>\$332,750</b>	12	A/Prof Jonathan Iredell (Westmead Hospital)	University of Sydney
Rapid point-of-care detection of avian influenza virus using an Ion-Channel	<b>\$425,400</b>	6	Dr Tuckweng Kok	University of Adelaide
Rapid, point-of-care diagnostic tests to differentiate HA subtypes in patient samples	<b>\$167,900</b>	12	A/Prof David Anderson	Macfarlane Burnet Institute for Medical Research and Public Health
<b>VACCINE DEVELOPMENT AND EVALUATION</b>				
Assessment of alpha-galactosylceramide as a novel adjuvant for pandemic influenza A virus vaccines	<b>\$218,010</b>	15	Dr Stephen Turner	University of Melbourne
Cell mediated immunity to avian influenza	<b>\$133,483</b>	11	A/Prof Rosemary Ffrench	Macfarlane Burnet Institute for Medical Research and Public Health
Chimeric virus-like particles (VLPs) displaying H1, H3 and H5 haemagglutinins - construction and immunogenicity	<b>\$207,150</b>	12	A/Prof David Anderson	Macfarlane Burnet Institute for Medical Research and Public Health
Enhancing Australia's pandemic influenza vaccine output by increasing the yield of vaccine virus from eggs	<b>\$248,000</b>	18	A/Prof Lorena Brown	University of Melbourne
Establishing the capacity for H5N1 challenge of ferrets within Australia & optimising pandemic vaccines in this	<b>\$400,000</b>	18	A/Prof Lorena Brown	University of Melbourne
Gamma-ray inactivated influenza A virus vaccine for cross-protective T cell	<b>\$239,570</b>	12	Professor Arno Müllbacher	Australian National
Mucosal vaccine for influenza based on inactivated virus and mannan	<b>\$131,600</b>	12	Professor Geoffrey Pietersz	Austin Research Institute
Pandemic influenza virus vaccine: exploiting the conserved HA cleavage site	<b>\$243,300</b>	10	Dr Peng Li (Institute of Medical and Veterinary Science)	University of Adelaide
Self adjuvanting CTL-based influenza vaccines for human use	<b>\$211,800</b>	18	Dr David Jackson	University of Melbourne
Simplified Process Methods for Mass Vaccine Manufacture	<b>\$158,000</b>	12	Professor Anton Middelberg	University of Queensland
The use of inulin-based adjuvants to enhance the effectiveness and population coverage of influenza vaccination	<b>\$250,000</b>	12	Professor Nikolai Petrovsky (Flinders Medical Centre)	Flinders University
<b>ANTI-VIRAL MEDICATION USE AND EFFECTIVENESS</b>				
A prospective study to examine the effectiveness and safety of antivirals against pandemic influenza	<b>\$142,394</b>	6	Professor David Cooper	University of NSW
Are routine healthcare worker hand hygiene protocols (soap/water, alcohol-based hand rub) effective against	<b>\$99,950</b>	6	Professor Lindsay Grayson (Austin Health)	University of Melbourne

Assessment of development of resistance to neuraminidase inhibitors in A(H5N1) influenza viruses using a ferret model	<b>\$163,940</b>	15	A/Prof Lorena Brown	University of Melbourne
Avian influenza: Molecular basis of potential resistance to neuraminidase	<b>\$87,250</b>	6	Professor William Parker	St. Vincent's Institute
Determination of the efficacy and the resistance profile of a long acting neuraminidase inhibitor against several avian influenza strains	<b>\$91,350</b>	6	Dr Jane Ryan	Biota Scientific Management Pty Ltd
Sensitive, rapid and accurate detection of the emergence of neuraminidase inhibitor resistance by real-time PCR, Ligase Chain Reaction (LCR) and Rolling Circle Amplification (RCA)	<b>\$118,875</b>	6	Dr Bin Wang (Westmead Millennium Institute)	Sydney West Area Health Service
<b>PUBLIC HEALTH INTERVENTIONS</b>				
Assessment of interventions for controlling pandemic influenza and determining data needs to inform these assessments	<b>\$183,040</b>	6	Professor Niels Becker	Australian National University
Investigation of the optimal assessment of febrile passengers detected by infrared thermal scanning at an international airport	<b>\$165,438</b>	9	Professor William McBride	James Cook University
Modelling the biology and transmission of influenza virus – learning from 1918-19 and other outbreaks	<b>\$113,829</b>	12	Professor John Mathews	University of Melbourne
Pandemic influenza: developing a model to enhance preparedness in the business	<b>\$146,934</b>	9	Professor Aileen Plant	Curtin University of Technology
Spatial Simulation Modelling of Containment Strategies for Pandemic	<b>\$99,534</b>	12	Professor George Milne	University of Western Australia
Surveillance and analysis of avian influenza viruses in wild birds in Australia	<b>\$249,625</b>	12	Dr Philip Hansbro	University of Newcastle
<b>UNDERSTANDING BEHAVIOURAL RESPONSES</b>				
Potential Avian Influenza-Induced Pandemic: Minimising Public Panic	<b>\$249,854</b>	10	A/Prof Sandra Jones	University of Wollongong
Production of nasal filters: enhanced prophylactic protection from aerosol	<b>\$147,000</b>	6	Dr Euan Tovey	University of Sydney
Strengthening the contribution of Australian general practice to the control of pandemic influenza	<b>\$110,257</b>	6	Professor Marjan Kljakovic	Australian National University
<b>OTHER AREAS OF DIRECT RELEVANCE TO THE NATIONAL RESPONSE TO THE RISK OF AN AVIAN INFLUENZA INDUCED PANDEMIC</b>				
Avian Influenza – National perception of risks to paramedics and innovative ambulance service population-based models of surveillance and triage	<b>\$297,516</b>	12	Ms Vivienne Tippet (Queensland Ambulance Service)	University of Queensland
Screening agents active against the late-stage inflammatory cytokines for activity against influenza	<b>\$237,807</b>	18	Professor Ian Clark	Australian National University
<b>TOTAL FUNDING</b>	<b>\$6,568,412</b>			