

## Petition to Governor of New South Wales for Pardon of Kathleen Folbigg

These submissions are made to request that the Governor exercise the pardon power pursuant to s 76 of *Crimes (Appeal and Review) Act 2001* (NSW) for the release of Kathleen Folbigg.

### Background

In 2003, Kathleen Folbigg was convicted of murdering three of her children; Patrick, Sarah and Laura and of the manslaughter of Caleb. She was also convicted of inflicting grievous bodily harm on Patrick. Ms Folbigg was sentenced on 24 October 2003 to imprisonment for 40 years with a non-parole period of 30 years. It was later reduced on appeal to a 25-year non-parole period.

Ms Folbigg's convictions were based on the prosecution's theory that she smothered all four children. Yet there is no medical evidence to indicate smothering.<sup>1</sup>

A petition for a review of her convictions was received by the Governor of New South Wales on 16 June 2015. This petition raised a reasonable possibility that Ms Folbigg was innocent,<sup>2</sup> based on the findings of Professor Stephen Cordner (forensic pathologist) that natural causes of death could be found for Caleb, Patrick, Sarah, and Laura.<sup>3</sup>

An inquiry commenced on 28 October 2018, and the substantive hearings were held over a period of three weeks from March 2019. During this inquiry, the genomes of the Folbigg children were sequenced and it was found that the two female Folbigg children had a novel mutation in the *CALM2* gene. Mutations in this gene are one of the best recognised causes of sudden death in infancy and childhood, both while asleep and awake.<sup>4</sup>

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<sup>1</sup> Dr Cala: "There's nothing in the medical records that indicates homicide" see inquiry transcripts page 286 line 28 (21.03.19). Also see evidence that there were no signs of physical abuse in any of the children: Professor Cordner at page 253 lines 5-11 (21.03.19); Professor Duflou at page 253 line 15 (21.03.19); Professor Hilton at page 252 line 50 (21.03.19). Available at: <https://www.folbigginquiry.justice.nsw.gov.au/Pages/transcripts.aspx>

Reports of Professor Cordner undated (Exhibit C); Report of Professor Duflou dated 13 February 2019 (Exhibit L); Report of Professor Hilton dated 22 January 2019 (Exhibit O); Affidavit of Professor Hilton dated 13 November 2018 (Exhibit P). Available at: <https://www.folbigginquiry.justice.nsw.gov.au/Pages/exhibits.aspx>

<sup>2</sup> A reasonable possibility consistent with innocence needs to be negated by the prosecution before an individual can be found guilty of a criminal offence: see *Moore v R* [2016] NSWCCA 185 [43], [94], [125]; *Pell v The Queen* [2020] HCA 12 [42]. The prosecution at trial did not negate the reasonable possibility that the Folbigg children died of natural causes. The Commissioner of the 2019 inquiry did not adequately address this necessary condition beyond stating that he could not exclude the possibility of smothering.

<sup>3</sup> Report of Professor Stephen Cordner (undated) (Exhibit C). Available at: <https://www.folbigginquiry.justice.nsw.gov.au/Documents/Exhibit%20C%20-%20Report%20of%20Stephen%20Cordner%20undated%20and%20report%20of%20Michael%20Pollanen%20dated%201%20June%202015.pdf>

<sup>4</sup> Lia Crotti, Carla Spazzolini, David J Tester, Alice Ghidoni, Alban-Elouen Baruteau, Britt-Maria Beckmann, Elijah R Behr, Jeffrey S Bennett, Connie R Bezzina, Zahurul A Bhuiyan, Alpay Celiker, Marina Cerrone, Federica Dagradi, Gaetano M De Ferrari, Susan P Etheridge, Meena Fatah, Pablo Garcia-Pavia, Saleh Al-Ghamdi, Robert M Hamilton, Zuhair N Al-Hassnan, Minoru Horie, Juan Jimenez-Jaimez, Ronald J Kanter, Juan P Kaski, Maria-

Furthermore, in May 2019, it was reported by the Calmodulin (CALM) registry that a mutation in the exact same residue of calmodulin, as the one present in the Folbigg girls, caused lethal cardiac arrhythmias or cardiac arrest in two US children.<sup>5</sup> Unfortunately, functional validation of the Folbigg mutation could not be completed before the end of the inquiry but has since been completed by a group of international experts who concluded that the Folbigg *CALM2* mutation is likely pathogenic and arrhythmogenic.<sup>6</sup>

A report was handed down by the Commissioner of the inquiry in July 2019. The Commissioner found that there was no reasonable doubt as to Kathleen Folbigg's convictions. He made these findings based on his interpretation of Ms Folbigg's journal entries.<sup>7</sup> His conclusion runs counter to the scientific and medical evidence that now exists. This is because a natural cause of death for each of the children has been ascribed by qualified experts, and there was no evidence of smothering.

The legal proceedings commenced by Ms Folbigg could take years to finalise. She has already spent three years waiting for approval for an inquiry, and a further year while the inquiry proceedings were heard and resolved. This was followed by a year waiting for an application for judicial review of the inquiry to be heard by the Court of Appeal. It is also likely to take further years until the new scientific evidence is considered by the courts and the convictions are quashed.

The Governor should have no doubt that the case against Kathleen Folbigg is entirely circumstantial. It is based on the proposition that the likelihood of four children from one family dying of natural causes is so unlikely as to be virtually impossible. This flawed logic, otherwise known as 'Meadow's Law', permeated the trial and the 2019 inquiry.<sup>8</sup> It resulted in medical

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Christina Kotta, Najim Lahrouchi, Naomasa Makita, Gabrielle Norrish, Hans H Odland, Seiko Ohno, John Papagiannis, Gianfranco Parati, Nicole Sekarski, Kristian Tveten, Matteo Vatta, Gregory Webster, Arthur A M Wilde, Julianne Wojciak, Alfred L George, Jr, Michael J Ackerman and Peter J Schwartz, 'Calmodulin mutations and life-threatening cardiac arrhythmias: insights from the International Calmodulinopathy Registry' (2019) 40(35) *European heart journal* 2964-2975. Available at: <https://doi.org/10.1093/eurheartj/ehz311>

<sup>5</sup> Ibid.

<sup>6</sup> Malene Brohus, Todor Arsov, David A. Wallace, Helene Halkjær Jensen, Mette Nyegaard, Lia Crotti, Marcin Adamski, Yafei Zhang, Matt A. Field, Vicki Athanasopoulos, Isabelle Baro, Barbara B. Ribeiro de Oliveira-Mendes, Richard Redon, Flavien Charpentier, Hariharan Raju, Deborah DiSilvestre, Jinhong Wei, Ruiwu Wang, Haloom Rafahi, Antony Kaspi, Melanie Bahlo, Ivy E. Dick, Sui Rong Wayne Chen, Matthew C. Cook, Carola G. Vinuesa, Michael Toft Overgaard and Peter J. Schwartz, 'Infanticide vs. inherited cardiac arrhythmias' (2020) *Europace* 1-10. Available at: <https://academic.oup.com/europace/advance-article/doi/10.1093/europace/eaab272/5983835>

<sup>7</sup> In the inquiry report, the Commissioner at page 480 para 89 states, inter alia: "evidence which has emerged at the Inquiry, particularly her own explanations and behaviour in respect of her diaries, makes her guilt of these offences even more certain." Available at: <https://www.folbigginquiry.justice.nsw.gov.au/Pages/report.aspx>

<sup>8</sup> Named after paediatrician, Sir Roy Meadow. Meadow's Law was discredited in the successful UK appeal by Sally Clark, which quashed her conviction for murdering her two sons. Sir Roy Meadow's statistical testimony regarding the low probability of Sally Clark's sons having died of Sudden Infant Death Syndrome (SIDS) was later held to be misleading (see *General Medical Council v Meadow* [2006] EWCA Civ 1390). Professor Philip Dawid's expert statistical report for the appeal provides a concise explanation as to the flaws in Meadow's Law style reasoning: see <http://www.statslab.cam.ac.uk/~apd/>

evidence being rejected in favour of inculpatory interpretations of Ms Folbigg's vague journal entries, which contained no admissions of guilt.

Based on evidence presented to the inquiry and the fresh scientific evidence obtained by the international group of experts that studied the *CALM2* mutation, a reasonable person should have doubt about Ms Folbigg killing her four children. Deciding otherwise rejects medical science and the law that sets the standard of proof.

### **Grounds for Pardon**

Ms Folbigg should be granted a pardon based on the significant positive evidence of natural causes of death for Caleb, Patrick, Sarah, and Laura. The further developments to support this are:

1. Professor Schwartz (world's leading cardiac geneticist) concluded that the *CALM2* mutation found in Sarah and Laura Folbigg is 'likely pathogenic'. Whenever a sudden death occurs without obvious causes and a 'likely pathogenic' mutation of this nature is found, it is scientifically appropriate to consider the mutation as the likely cause of death. This important evidence was not given the opportunity to be heard at the inquiry as the Commissioner declined to reopen the hearings to consider the evidence of Professor Schwartz.
2. The likely role of the novel *CALM2* mutation in Sarah and Laura's death was confirmed in a world leading study by Professor Toft Overgaard, Professor Schwartz, Professor Vinuesa and colleagues published on 17 November 2020.<sup>9</sup> In this ground-breaking research the authors concluded that a fatal cardiac arrhythmia caused by the *CALM2* mutation and triggered by intercurrent infections, was a reasonable explanation for Sarah and Laura's death. This paper has been published in *EP Europace* (Oxford University Press), a highly respected, peer reviewed journal. This indicates that the international medical and scientific communities find the role of the *CALM2* mutation in cardiac death a reasonable and likely explanation for Sarah and Laura's deaths.

The following are the current medical explanations from the leading experts in their field for each of the Folbigg children's deaths:

- a. Caleb died on 20 February 1989 at 19 days of age. His death was classified as Sudden Infant Death Syndrome (SIDS), category 2, with a finding of laryngomalacia.<sup>10</sup>

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<sup>9</sup> Brohus et al (2020) (n 6).

<sup>10</sup> Evidence from Professors Cordner, Duflou and Hilton. See inquiry transcript references: Professor Cordner at page 130 lines 23-35, page 132 line 5 (19.03.19), page 278 lines 12-16 (21.03.19); Professor Duflou at page 130 lines 8-14 (19.03.19), page 245 lines 25-31 (21.03.19); Professor Hilton at page 130 lines 18-20 (19.03.19), page 244 lines 7-16 (21.03.19). Available at: <https://www.folbigginquiry.justice.nsw.gov.au/Pages/transcripts.aspx>

Reports of Professors Cordner, Duflou and Hilton (n 1).

- b. Patrick died on 13 February 1991 at 8 months from asphyxia due to airway obstruction due to epileptic fits from an encephalopathic disorder of unknown cause (associated with blindness), as reported in his death certificate.<sup>11</sup>
- c. Sarah died on 30 August 1993 at 10 months of age. Her death was classified as SIDS, category 2. She died four days after seeing her general practitioner for a croupy cough and starting a course of antibiotics (flucloxacillin). Autopsy findings included a congested and haemorrhagic uvula and profuse alpha-haemolytic *Streptococcus* in lung cultures. Further investigation identified she carried the likely pathogenic and arrhythmogenic *CALM2* mutation.<sup>12</sup>
- d. Laura died on 1 March 1999 at 18 months old. She died two days after being treated for a respiratory infection with paracetamol and pseudoephedrine (a medication known to trigger cardiac arrhythmias). At autopsy she was found to have florid myocarditis. Her death was initially recorded by Dr Cala as “undetermined” in light of the previous deaths of her siblings. At the inquiry, Professors Cordner, Duflou and Hilton indicated that they would have recorded Laura's myocarditis as the cause of death. Dr Cala acknowledged at the inquiry that myocarditis could have been the cause of Laura's death.<sup>13</sup> Further investigation identified that Laura carried the likely pathogenic *CALM2* mutation.<sup>14</sup>

Myocarditis, medications like pseudoephedrine, and fever, are well established triggers of arrhythmia in children with a genetic susceptibility,<sup>15</sup> such as a likely pathogenic *CALM2*

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<sup>11</sup> Evidence from Professors Cordner, Duflou and Hilton. See inquiry transcript references: Professor Cordner at page 161 line 49 (20.03.19); Professor Duflou at page 162 lines 30-35 (20.03.19); Professor Hilton at page 147 lines 12-22 (20.03.19), page 164 lines 12-22 (20.03.19). Available at: <https://www.folbigginquiry.justice.nsw.gov.au/Pages/transcripts.aspx>

Reports of Professors Cordner, Duflou and Hilton (n 1).

Reports of Professor Monique Ryan dated 15 March 2019 (Exhibit AJ) and Report of Associate Professor Michael Fahey dated 30 March 2019 (Exhibit AK). Available at: <https://www.folbigginquiry.justice.nsw.gov.au/Pages/exhibits.aspx>

<sup>12</sup> Evidence from Professors Cordner, Duflou and Hilton. See inquiry transcript references: Professor Cordner at page 179 line 25 (20.03.19), page 280 line 15 (21.03.19); Professor Duflou at pages 179-180 (in full) (20.03.19), page 280 line 3 (21.03.19); Professor Hilton at page 280 line 7 (21.03.19). See also Dr Cala at page 280 line 11 (21.03.19). Available at: <https://www.folbigginquiry.justice.nsw.gov.au/Pages/transcripts.aspx>

Reports of Professors Cordner, Duflou and Hilton (n 1).

See also Brohus et al (2020) (n 6).

<sup>13</sup> Evidence from Professors Cordner, Duflou and Hilton. Professor Cordner at page 276 line 6 (21.03.19); Professor Duflou at page 276 line 3 and lines 30-35 (21.03.19); Professor Hilton at page 275 line 50 (21.03.19). See also Dr Cala: “I think, with Laura, there's undoubtedly myocarditis and I've said I can't exclude that as being the cause of death” see page 281 line 20 (21.03.19). Available at: <https://www.folbigginquiry.justice.nsw.gov.au/Pages/transcripts.aspx>

Reports of Professors Cordner, Duflou and Hilton (n 1).

<sup>14</sup> Brohus et al (2020) (n 6).

<sup>15</sup> Peter J. Schwartz, Michael J. Ackerman, Charles Antzelevitch, Connie R. Bezzina, Martin Borggrefe, Bettina F. Cuneo and Arthur A. M. Wilde, ‘Inherited cardiac arrhythmias’ (2020) 6(1) *Nature Reviews Disease Primers* 1-22.

mutation.<sup>16</sup> A summary of the conditions of each of the Folbigg children is set out on page 16 of the Supplementary Materials to the paper by Brohus et al (2020).<sup>17</sup>

The medical evidence that exists, especially in light of the Brohus et al (2020) functional studies, creates a strong presumption that the Folbigg children died of natural causes. A presumption that should only be displaced by overwhelming evidence to the contrary, which we submit there is not. This presumption is endorsed by numerous world leading scientists, medical practitioners and science advocates as set out below in the form of a Scientific Consensus Statement.

### **Conclusion**

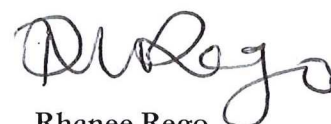
The entire time that Kathleen Folbigg has been in custody is a result of a miscarriage of justice. This year, Ms Folbigg has been incarcerated for 18 years of her life.

The executive prerogative of mercy is designed to deal with failures of the justice system such as this one. It is incumbent on the Governor to exercise her power to stop the ongoing miscarriage of justice suffered by Ms Folbigg. Not to do so is to continue to deny Ms Folbigg basic human rights and to decrease faith in the New South Wales justice system. Ms Folbigg's case also establishes a dangerous precedent as it means that cogent medical and scientific evidence can simply be ignored in preference to subjective interpretations of circumstantial evidence.

Ms Folbigg has suffered and continues to suffer emotional and psychological trauma and physical abuse in custody. She has endured the death of her four children and has been wrongfully incarcerated because the justice system has failed her. We the undersigned seek her immediate pardon and release from gaol.



**Dr Robert Cavanagh**  
Barrister-at-law



**Rhanee Rego**  
Solicitor

**2 March 2021**

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<sup>16</sup> Brohus et al (2020) (n 6).

<sup>17</sup> Brohus et al (2020) (n 6): <https://academic.oup.com/europace/advance-article/doi/10.1093/europace/euaa272/5983835#supplementary-data>

## Scientific and Medical Consensus and Endorsement

The scientists, medical practitioners, and science advocates set out below endorse this petition on the basis that the scientific and medical evidence referred to herein creates a strong presumption that the Folbigg children died of natural causes.

<u>Name</u>	<u>Expertise</u>	<u>Location</u>
<b>Professor John Shine AC</b> FRS PresAA	<b>President, Australian Academy of Science</b> Emeritus Professor, Garvan Institute of Medical Research 2010 Prime Minister's Prize for Science	NSW, Australia
<b>Emeritus Professor Elizabeth H Blackburn AC</b> PhD FRS	<b>2009 Nobel Laureate</b> (Physiology or Medicine) Morris Herztein Professor Biology and Physiology Professor Emerita, Department of Biochemistry and Biophysics University of California, San Francisco	California, USA
<b>Professor Peter Doherty AC</b> PhD FRS FMedSci	<b>1996 Nobel Laureate</b> (Medicine) Expertise in Viral Immunity Australian of the Year in 1997	VIC, Australia
<b>Emeritus Professor Ian Chubb AC</b> FAA FTSE FACE FRSN	Former Chief Scientist for Australia Vice Chancellor of ANU and Flinders University Expertise in neuroscience	ACT, Australia
<b>Professor Fiona Stanley AC</b> FAA FASSA FAHMS	Patron, Telethon Kids Institute Distinguished Research Professor, University of Western Australia Expertise in child and maternal health, and birth disorders	WA, Australia
<b>Professor Ian Frazer AC</b> FRS FAA MC ChB(Edin) MD(Melb) FAHMS	Australian of the Year 2006 Prime Minister's Prize for Science 2008. International Life Award for Scientific Research 2007	QLD, Australia
<b>Professor Peter J. Schwartz</b> MD	Head of the Centre for Cardiac Arrhythmias of Genetic Origin Cardiologist specialist in arrhythmology, the genetic causes of arrhythmia and sudden cardiac death	Milan, Italy
<b>Professor Michael Toft Overgaard</b> Phd MSc	Head of Department, Department of Chemistry and Bioscience, Aalborg University	Aalborg, Denmark

	Expert in protein science and calmodulinopathies	
<b>Professor Carola G Vinuesa</b> MD PhD FFS <sub>c</sub> (RCPA) FAHMS FAA	Co-Director, Centre for Personalised Immunology, ANU. Genomic medicine. Elizabeth Blackburn NHMRC Principal Research Fellow	ACT, Australia
<b>Dr Todor Arsov</b> MD MGC PhD	Genetics, Genetics Counselling Hon Senior Research Fellow, The John Curtin School of Medical Research, ANU Genetic Counsellor, Department of Immunology and Genetics, Medical School in Skopje, North Macedonia	Skopje, North Macedonia
<b>David Wallace</b> BSc(Hon) LLB(Hon)	Health Lawyer Genomic evidence	NSW, Australia
<b>Professor S.R. Wayne Chen</b> PhD	Expertise in cardiac arrhythmias and sudden death Professor, Department of Physiology and Pharmacology, Cummings School of Medicine, University of Calgary	Alberta, Canada
<b>Associate Professor Mette Nyegaard</b> PhD MSc	Expertise in human genetics and genomics Identified the first calmodulin mutations in humans Department of Biomedicine, Aarhus University	Aarhus, Denmark
<b>Assistant Professor Ivy E. Dick</b> PhD	Department of Physiology, University of Maryland School of Medicine Expertise: Calcium channelopathies and calmodulinopathies	Maryland, USA
<b>Professor Chris Semsarian AM</b> MBBS PhD MPH FRACP FRCPA FAHMS FAHA FHRS FCSANZ	Professor of Medicine, University of Sydney Genetic Cardiologist & NHMRC Practitioner Fellow, Royal Prince Alfred Hospital Head, Agnes Ginges Centre for Molecular Cardiology, Centenary Institute Director, Hypertrophic Cardiomyopathy & Genetic Heart Disease Clinics, RPAH	NSW, Australia
<b>Professor Reza Razavi</b> MD FRCP FRCPC FRCR	Professor of Paediatric Cardiovascular Science at Kings College London and Consultant Paediatric cardiologists at Evelina Children's Hospital (part of Guys and St Thomas' NHS Foundation Trust)	London, UK
<b>Professor Matthew Cook</b> MB BS PhD FRACP FRCPA FFS <sub>c</sub> (RCPA)	Professor of Medicine, ANU Director of Immunology, The Canberra Hospital	ACT, Australia

	Co-Director, Centre for Personalised Immunology, The John Curtin School of Medical Research	
<b>Dr Hariharan Raju</b> MBChB ECES PhD FRACP	Cardiologist & Electrophysiologist, Concord Hospital Associate Professor, Macquarie University	NSW, Australia
<b>Laureate Professor Ingrid E Scheffer AO</b> MBBS PhD FRACP FAES FAA FRS PresAHMS	President, Australian Academy of Health and Medical Sciences Melbourne Laureate Professor Paediatric Neurologist Department of Medicine, Austin Health Department of Paediatrics, Royal Children's Hospital, University of Melbourne Director of Paediatrics, Austin Health NHMRC Practitioner Fellow and NHMRC Senior Investigator Fellowship Senior Principal Research Fellow, The Florey Institute of Neuroscience and Mental Health Senior Fellow, Murdoch Children's Research Institute	VIC, Australia
<b>Anna-Maria Arabia</b> BSc(Hon)(Melb)	Chief Executive of Australian Academy of Science Former General Manager of Questacon – the National Science and Technology Centre Former CEO of Science & Technology Australia	ACT, Australia
<b>Emeritus Professor Richard Larkins AC</b> MDBS PhD LLD (Hon) Melb LLD (Hon) Monash DUniv (Hon) LaTrobe FAHMS FTSE FRACP FRCP	Former Dean of Medicine, Dentistry and Health Sciences, University of Melbourne Former Vice-Chancellor, Monash University Former Chancellor, LaTrobe University Former Chair NHMRC Former President RACP	VIC, Australia
<b>Professor John Funder AC</b> MD PhD FRACP FRCP	Vice-Chancellor's Professorial Fellow, Monash University Former president of the Australian Society for Medical Research Former director of the Baker Medical Research Institute Senior fellow at Prince Henry's Institute of Medical Research at Monash Medical Centre Professorial fellow at the Centre for Neuroscience, University of Melbourne	VIC, Australia



<b>Professor Johan Duflou</b> MBChB MMed FRCPA FFFLM DAvMed	Forensic Pathologist	NSW & ACT, Australia
<b>Professor Flavien Charpentier</b> PhD	Research Director and Cardiac electrophysiologist, Institut du thorax Expertise in inherited cardiac arrhythmias	Nantes, France
<b>Professor Douglas J. Hilton</b> <b>AO</b> PhD FAA FTSE FAHMS	Director, Walter and Eliza Hall Institute of Medical Research The Lorenzo and Pamela Galli Chair in Medical Biology Professor of Medical Biology, Head, Department of Medical Biology and Honorary Principal Fellow, Department of Zoology, University of Melbourne	VIC, Australia
<b>Professor Jonathan Carapetis</b> MBBS BMedSc PhD FRACP FAFPHM FAHMS	Paediatrician, public health and infectious diseases physician Executive Director, Telethon Kids Institute Professor, University of Western Australia Paediatrician, Perth Children's Hospital	WA, Australia
<b>Adjunct Professor Paul N Goldwater</b> BSc (Hons) MBBS FRACP FRCPA	Professor of Paediatric Infectious Diseases and Clinical Microbiology, SIDS Researcher, University of Adelaide	SA, Australia
<b>Professor Angel F Lopez AO</b> MBBS PhD FRCPA FAHMS FAA	Head, Division of Human Immunology, SA Pathology Centre for Cancer Biology, SA Pathology and UniSA	SA, Australia
<b>Professor Graham Mann</b> MBBS PhD FRACP FAAHMS	Director, The John Curtin School of Medical Research, ANU Director, National Centre for Indigenous Genomics Expertise in human (cancer) genetics	ACT, Australia
<b>Professor Jozef Gecz</b> PhD FAA FAHMS FFSc(RCPA)	Paediatric geneticist Channel 7 CRF Chair for the Prevention of Childhood Disability NHMRC Senior Principal Research Fellow	SA, Australia
<b>Professor Hamish S Scott</b> PhD FFSc(RCPA) FAHMS	Head, Department of Genetics and Molecular Pathology Centre for Cancer Biology SA Pathology and UniSA Alliance Scientific lead of study "Genomic autopsy of perinatal death", a national study funded by the MRFF Genomics Health Futures Mission (GHFM)	SA, Australia

	Expertise in human genetics and genomics in both diagnostics (Head of Dept) and research	
<b>Dr Malene Brohus</b> PhD MSc	Postdoctoral fellow, Department of Chemistry and Bioscience, Aalborg University Expertise: protein science and calmodulinopathies	Aalborg, Denmark
<b>Dr Marcin Adamski</b> PhD	Senior Lecturer, Research School of Biology, ANU Quantitative Biology and Genomics	ACT, Australia
<b>Dr Helene Halkjær Jensen</b> PhD MSc	Postdoctoral fellow. Department of Chemistry and Bioscience, Aalborg University Expertise: protein science and calmodulinopathies	Aalborg, Denmark
<b>Professor Matt Brown</b> MBBS MD FRACP FAHMS FAA	Professor of Medicine, King's College London Director, Guy's and St Thomas' NHS Foundation Trust and King's College London NIHR Biomedical Research Centre Expertise in Human Genetics and genetics of rare diseases	London, UK
<b>Dr Dan Andrews</b> PhD	Laboratory head, Genome Informatics, John Curtin School of Medical Research, ANU	ACT, Australia
<b>Associate Professor Hugo Gold</b> MBBS(Melb) FRACP MRCP(London) FACT(Melb)	Founding medical director, Children's Bioethics Centre, Royal Children's Hospital, Melbourne Retired consultant paediatrician Honorary clinical ethicist, RCH RCH gold medal 2008	VIC, Australia
<b>Conjoint Professor Matthew Edwards</b> MD FRACP FACMG	Clinical geneticist	NSW, Australia
<b>Professor Leanne Dibbens</b> PhD BscHons	Research Professor of Human Genetics, NHMRC Senior Research Fellow Head of Genetics and Genomics, Australian Centre for Precision Health	SA, Australia
<b>Dr Michael Ricos</b> PhD	Senior Research Fellow Epilepsy and Molecular Neurogenomics Research Group Australian Centre for Precision Health University of south Australia	SA, Australia

<b>Associate Professor Tracy Dudding-Byth</b> BMed FRACP PhD	Senior Consultant Clinical Geneticist, Hunter New England Health Service Conjoint Associate Professor, The University of Newcastle	NSW, Australia
<b>Professor David Balding</b> FAA	Professor of Statistical Genetics, Director of Melbourne Integrative Genomics, University of Melbourne President-elect, International Genetic Epidemiology Society	VIC, Australia
<b>Professor Melanie Bahlo</b> PhD FAHMS	Laboratory Head. Human Genetics. Leader, Healthy Development and Ageing Theme	VIC, Australia
<b>Professor Terence Speed</b> PhD FRS FAA	Laboratory Head, Bioinformatics Division, WEHI 2013 Prime Minister's Prize for Science Mathematical expertise been used in several high-profile court cases	VIC, Australia
<b>Professor Cheryl E Praeger AC</b> DPhil DSc FAA	Emeritus Professor of Mathematics University of Western Australia 2019 Prime Minister's Prize for Science	WA, Australia
<b>Professor Ian H Sloan AO</b> PhD DUniv(UNSW) AO FAA FRSN	President, Royal Society of NSW Expertise in mathematics and physics	NSW, Australia
<b>Emeritus Scientia Professor Eugenie R Lumbers AM</b> Dist FRSN FAA MD DSc MBBS	Systems physiology and pharmacology, cardiovascular and renal fetal and development physiology (human)	NSW, Australia
<b>Professor Wendy Hoy AO</b> FAA FRACP MB BS (HI) BScMed(HI)	Professor of Medicine Physician/Nephrologist Director, Centre for Chronic Diseases, University of Queensland	QLD, Australia
<b>Professor E Marelyn Wintour- Coghlan AO</b> FAA	Honorary Professor, Monash University Expertise in Physiology	VIC, Australia
<b>Scientia Professor George Paxinos AO</b> DSc FASSA FAA(Dist) FRSN FAHMS	NHMRC Senior Principal Research Fellow, Neuroscience Research Australia Expertise in psychology and neuroanatomy	NSW, Australia
<b>Professor Jane Blood-Siegfried</b> PhD CPNP FAAN	Director of Global Education Programs and Initiatives, Duke University School of Nursing Expertise: Paediatric practitioner and SIDS researcher	NC, USA
<b>Dr Orna Berry</b> BSc MStat PhD	Former Chief Scientist, government of Israel	Tel Aviv, Israel

<b>Professor Stephen Alexander</b> MBBS PhD MPH	Paediatrics, University of Sydney	NSW, Australia
<b>Emeritus Professor Barry Boettcher AM</b> BSc PhD	Genetics, Formerly Foundation Professor of Biological Sciences, University of Newcastle	NSW, Australia
<b>Professor Ira Shoulson</b> MD BA(Psych)	Professor of Neurology, University of Rochester (NY, USA) Adjunct Professor of Neurology, Georgetown University (DC, USA) Expertise in neurology and experimental therapeutics	DC, USA
<b>Professor George Fink</b> MB BS(Hons) MD DPhil FRCPE FRSB FRSE	Florey Institute of Neuroscience and Mental Health, University of Melbourne	VIC, Australia
<b>Dr Leon Kempler AM</b>	Chair Questacon, The National Science and Technology Centre President, Museums Victoria National Chairman, the Australia Israel Chamber of Commerce	ACT, Australia
<b>Dr Peter Yates AM</b> PhD FTSE FAICD BCom Master of Science(MGT)	Chairman, Centre Personalised Immunology Member of the Advisory Board, Australian Genomics Health Alliance Executive Chairman, Roadknight Investments (Aust)	VIC, Australia
<b>Erica Kneipp</b> BA(Hons) PolSci MA(EnviroHealth) AICD	Head of Research Strategy, TRANSFORM Lead, ANU College of Health and Medicine	ACT, Australia
<b>Professor David J Tremethick</b> PhD	Head, Department of Genome Sciences, The John Curtin School of Medical Research, ANU	ACT, Australia
<b>Professor Greg Stuart</b> PhD FAA	Head, Eccles Institute of Neuroscience John Curtin School of Medical Research	ACT, Australia
<b>Professor Ruth Arkell</b> BSc PhD	Professor of Genetics and Embryology, ANU	ACT, Australia
<b>Dr Sue D Meek AO</b> PhD FAICD FTSE	Former Chief Executive of the Australian Academy of Science Expertise in increasing awareness and understanding of the economic and social implications of science and technology	ACT, Australia
<b>Emeritus Professor Helene Marsh AO</b> PhD FAA FTSE	Professor Emeritus Environmental Science, James Cook University	QLD, Australia
<b>Professor Jonathan Sprent</b> MBBS PhD FAA FRS	Professor of Immunology Garvan Institute of Medical Research	NSW, Australia

<b>Emeritus Professor Robert Clancy AM</b> MBBS PhD DSc FRACP FRCP(A)	Emeritus Professor of the University of Newcastle Expertise in mucosal immunology, airways infection and immunity	NSW, Australia
<b>Professor Oliver Mayo</b> FAA FTSE	Adjunct Professor of Biometry Expertise in human genetics, University of Adelaide	NSW, Australia
<b>Professor Ehsan Arabzadeh</b> MD PhD	Professor of Neuroscience, John Curtin School of Medical Research, ANU	ACT, Australia
<b>Professor John M Bekkers</b> PhD	Professor of Neuroscience, ANU	ACT, Australia
<b>Dr Maria Cecilia Garcia Rudaz</b> MD PhD FRACP	Pediatric endocrinologist, Women, Youth & Children Canberra Hospital Senior Lecturer, School of Medicine, ANU	ACT, Australia
<b>Professor Caroline Blackwell</b> PhD DSc FRCPath FRS(N)	Professor of Immunology and Microbiology	NSW, Australia
<b>Professor Sarah A Robertson</b> PhD FAA FAHMS	Director, Robinson Research Institute for Reproduction, Pregnancy, and Child Health Professor of Reproductive Immunology, School of Medicine, University of Adelaide	SA, Australia
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