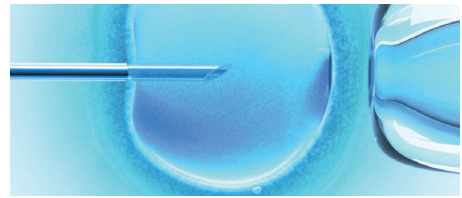
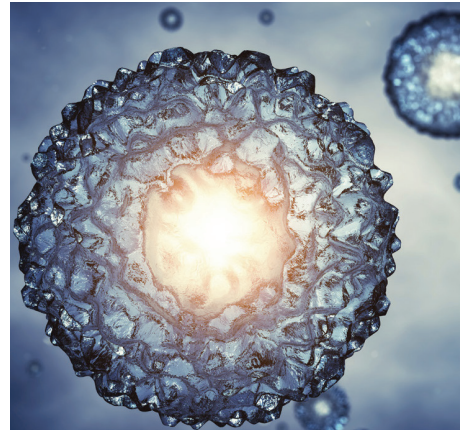
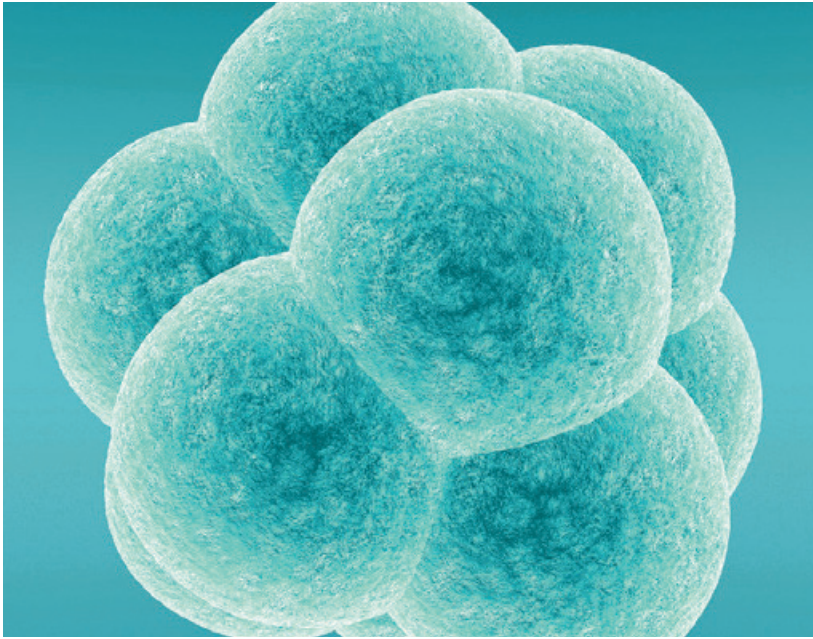




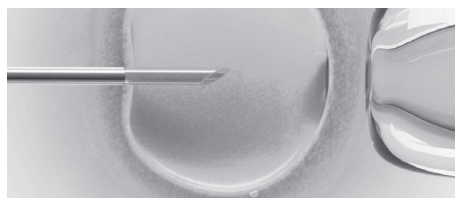
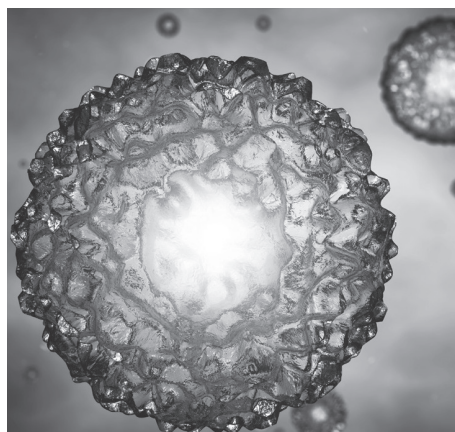
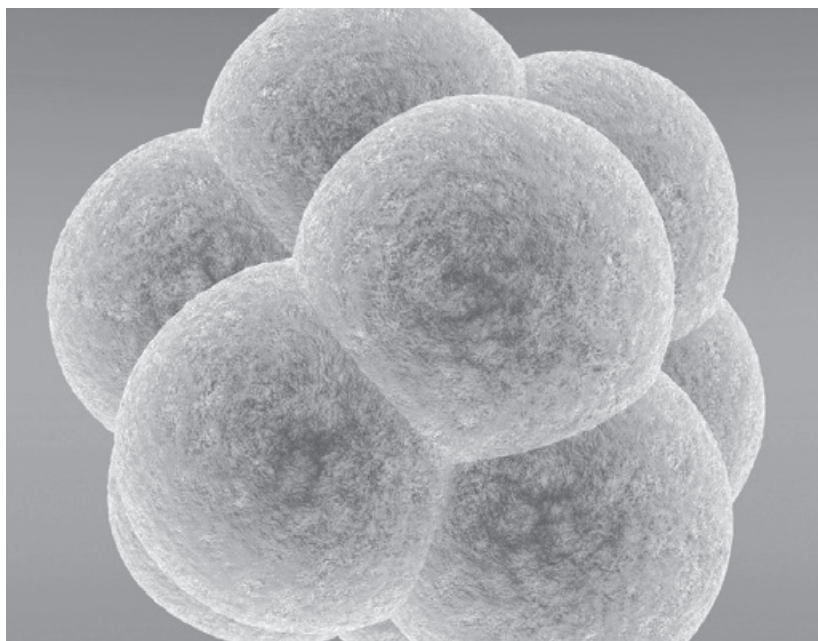
Australian Government

National Health and Medical Research Council



NHMRC Embryo Research Licensing Committee
Report to the Parliament of Australia

For the period 1 September 2016 to 28 February 2017



NHMRC Embryo Research Licensing Committee

Report to the Parliament of Australia

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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 twenty-ninth biannual report from the 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 2016 to 28 February 2017 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 has considered one new licence application and a number of applications seeking to vary previously issued licences for the use of excess assisted reproductive technology embryos and human eggs. In total nineteen licences have been issued under the Act, of which six were current at 28 February 2017.

Yours sincerely

A handwritten signature in black ink that reads "Con. Michael". The signature is written in a cursive style and is positioned above a light blue rectangular stamp.

Professor Constantine (Con) Michael AO
Chairperson
NHMRC Embryo Research Licensing Committee
April 2017

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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 utilisation 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.

In April 2002 and again in April 2007, the 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 C** 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 twenty-ninth Parliamentary Report of the NHMRC Licensing Committee, which covers the period 1 September 2016 to 28 February 2017.

Further information

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

The Director, Strategic Projects and Support
Evidence, Advice and Governance
NHMRC
GPO Box 1421
CANBERRA ACT 2601
Telephone: 02 6217 9000
Website: 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) which was passed by Federal Parliament in December 2002.

NHMRC Licensing Committee appointments for the 2015-2018 NHMRC triennium commenced on 13 August 2015. The current NHMRC Licensing Committee was appointed by the Minister for Health following consultation with relevant State and Territory Ministers and other bodies prescribed in the regulations under the RIHE Act.

Members are appointed on a part-time basis for a period not exceeding three years, as specified in the instrument of appointment, and are eligible for reappointment. The nine-member NHMRC Licensing Committee is responsible for making statutory decisions as outlined in the RIHE Act.

During the reporting period, the Minister for Health accepted the resignation of the member of Licensing Committee with expertise in consumer issues relating to assisted reproductive technology. The Minister appointed a replacement member on 6 February 2017 following consultation with the relevant State and Territory Ministers and prescribed bodies, in accordance with the RIHE Act.

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 8 December 2016.

Consideration of licence applications

One licence application was received during the 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. 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 13 variations to licences.

These variations were initiated by licence holders as follows:

- one variation related to the extension of a licence
- one variation involved changes to the documentation used in the consent process
- one variation related to the number of excess ART embryos authorised to be used
- ten variations involved changes to the lists of persons authorised to supervise and/or conduct the licensed activities.

Further information about variations to existing licences approved during the reporting period is at **Appendix B**.

Expiry of licence

One licence expired during the reporting period. Licence 309722 which had been issued to Monash IVF Limited expired on 11 December 2016.

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 outcomes are provided here as received from the licence holders.

Current licences

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

Licence number	309703
Licence holder	Genea Limited
Licence title	Development of human embryonic stem (ES) cells
Progress of licensed activity to date	<p>Under this licence we have derived a total of thirty (30) cell lines, four of which are karyotypically abnormal.</p> <p>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.</p> <p>Cell lines are available to researchers worldwide for basic disease research and drug development projects. Various distribution services aid in this process.</p>

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

Licence number	309718
Licence holder	Genea Limited
Licence title	Use of excess ART embryos and clinically unusable eggs for validation of an IVF device
Progress of licensed activity to date	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 zygotes, day 3 and blastocyst stage embryos. After several protocol optimisations and development of consumables, the instrument and consumables are now in their final version and manufacturing is taking place. The instrument and media are CE marked products and are commercially distributed. The Gavi system now has approved protocols for freezing of blastocyst stage, zygotes and cleavage stage embryos. Further optimisations for the different developmental stages may be required depending on market feedback.

Licence number	309719
Licence holder	Genea Limited
Licence title	Use of excess ART embryos for the development of improved IVF culture media
Progress of licensed activity to date	The current version of Gems IVF medium suite, previously developed by Genea under this licence, is registered, CE marked and prepared for international distribution. Further research is in progress to continually improve the current Gems IVF medium suite and where possible, increase the available product range. To that end, additional human research embryos are likely to be used to assist with development of the new compound for overlaying culture media in the next reporting period and subsequent to that, to develop the next generation of media solutions contained within the Gems IVF medium suite.

Licence number	309723
Licence holder	Melbourne IVF Pty Ltd
Licence title	Use of excess ART embryos for blastocyst-stage biopsy training
Progress of licensed activity to date	Licence 309723 involves the use of excess ART embryos to train scientists in the technique of embryo biopsy at the blastocyst stage of development. This technique involves removal of a small piece of tissue (trophectoderm) from the embryo and the processing of this tissue in a way that allows it to be subjected to genetic testing. In the last six months activities under this licence have resulted in one scientist demonstrating proficiency in this technique to a level required for clinical application.

Expired licences

Licence number	309722
Licence holder	Monash IVF Pty Ltd
Licence title	Optimising embryo-endometrial interactions to improve pregnancy success during IVF
Progress of licensed activity to date	The success of ART lies in the ability of the embryo to implant into the uterus. Although viable embryos are transferred into the uterus, over half of ART cycles result in a failure in implantation. Genetic abnormalities of embryos contribute to this failure. This study has set up techniques to determine what factors are necessary for successful implantation which can also compare the effects of genetically abnormal embryos and genetically normal embryos. As far as we know this is the first study of its kind worldwide. The data generated has increased knowledge of implantation and the success of ART procedures.

Licensed use of excess ART embryos

The following table shows the use of excess ART embryos under licence, as at 28 February 2017.

Current licences

Licence number	Licence holder	Licence title	Embryos authorised to be used under licence	Embryos used in licensed activity up to 28 February 2017	Embryos used during the reporting period
309702B	Genea Limited	Development of methods for pre-implantation genetic and metabolic evaluation of human embryos	220	50 (plus 8 embryos first used in 309701 and then transferred to 309702B)	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	38	0
309723	Melbourne IVF Pty Ltd	Use of excess ART embryos for blastocyst-stage biopsy training	250 ¹	122	22
Total for current licences			2255	1022	22

¹ Melbourne IVF is permitted to thaw 50 embryos for each authorised trainee. The total number of embryos authorised to be used under this licence is determined from the total number of authorised trainees.

Expired licences

Licence number	Licence holder	Licence title	Embryos authorised to be used under licence	Embryos used in licensed activity up to 28 February 2017	Embryos used during the reporting period
309722	Monash IVF Pty Ltd	Optimising embryo-endometrial interactions to improve pregnancy success during IVF	200	170	110
Total for expired licences			200	170	110

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 2017. “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 2017	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
	Total		1000	407	0

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 Monitoring and Compliance Framework can be found on the NHMRC website at www.nhmrc.gov.au.

Monitoring activities

During the reporting period, NHMRC inspectors conducted two inspections to assess compliance with licence conditions.

Licence Holder	Licence Number	Inspection Type	Inspection Date
Monash IVF Pty Ltd	309722	Final	5 December 2016
Melbourne IVF Pty Ltd	309723	Monitoring	6 December 2016

Outcomes of monitoring activities conducted

Monitoring Activity	Final Inspection
Licence Number	309722
Licence Holder	Monash IVF Pty Ltd
Monitoring Activity Date	5 December 2016
Licence Title	Optimising embryo-endometrial interactions to improve pregnancy success during IVF
Background	<ul style="list-style-type: none"> • Licence 309722 was issued on 11 December 2013. • This is the second inspection of Monash IVF conducted in relation to Licence 309722. The outcome of the previous inspection was reported in the 27th NHMRC Embryo Research Licensing Committee Report to Parliament.
Activities Conducted During Inspection	<ul style="list-style-type: none"> • Reviewed licensed activity 309722. • Examined documents and records to confirm the integrity of Monash IVF's record keeping systems relevant to the licensed use of excess ART embryos in Licence 309722. • Tracked eleven embryos used under Licence 309722 from the responsible persons to the outcomes of the licensed use. • Provided guidance to the licence holder about preparations to cease the licensed activity. • Assessed the licence holder's arrangements for complying with licence conditions related to the conclusion of the licensed activity.
Findings Related to Licence Conditions	<ul style="list-style-type: none"> • The required cooling-off period was not observed in relation to consent obtained from one of four persons responsible for a cohort of nine embryos. While a technical breach of a licence condition relating to the cooling-off period occurred, the NHMRC inspectors found that overall the licence holder's processes were acceptable. The licence holder provided all the information requested by the NHMRC inspectors. • The licence holder was aware of all the implications associated with the expiry of the licence. • The authorised activity occurred only at the authorised site and was performed by persons authorised on the licence. • The licence holder provided the final report required by the licence conditions before the licence expired on 11 December 2016.
Findings related to compliance with <i>Research Involving Human Embryos Act 2002</i>	<ul style="list-style-type: none"> • No offences committed under the <i>Research Involving Human Embryos Act 2002</i>.
Compliance Status	Compliant (with qualification noted above)

Monitoring Activity	Monitoring Inspection
Licence Number	309723
Licence Holder	Melbourne IVF Ltd
Monitoring Activity Date	6 December 2016
Licence Title	Use of excess ART embryos for blastocyst-stage biopsy training
Background	<ul style="list-style-type: none"> • Licence 309723 was issued on 19 December 2014. • This is the second inspection of Melbourne IVF conducted in relation to Licence 309723. The outcome of the previous inspection was reported in the 28th NHMRC Embryo Research Licensing Committee Report to Parliament.
Activities Conducted During Inspection	<ul style="list-style-type: none"> • Reviewed licensed activity 309723. • Inspected and examined documents and records to confirm the integrity of Melbourne IVF's record keeping systems relevant to the licensed use of excess ART embryos in Licence 309723. • Tracked five embryos used under Licence 309723 from the responsible persons to the outcomes of the licensed use. • Provided guidance to ensure continued compliance with licence conditions and legislation. • Obtained information on the proposed activities under Licence 309723 to keep the NHMRC Licensing Committee updated on the progress of the licence.
Findings Related to Licence Conditions	<ul style="list-style-type: none"> • The inspectors were satisfied with the licence holder's processes. • The licence holder provided all the information requested by the NHMRC inspectors.
Findings related to compliance with <i>Research Involving Human Embryos Act 2002</i>	<ul style="list-style-type: none"> • No contraventions of the <i>Research Involving Human Embryos Act 2002</i> were found.
Compliance Status	Compliant

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. 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: Current membership of the NHMRC Licensing Committee

Members of the NHMRC Licensing Committee for the 2015-2018 triennium are:

Professor Constantine (Con) Michael AO, Western Australia (Chairperson)

A person with expertise in the regulation of assisted reproductive technology

Professor Dianne Nicol, Tasmania

A member of the Australian Health Ethics Committee (AHEC)

Professor Sheryl de Lacey, South Australia

A person with expertise in research ethics

Professor Martin Pera, Victoria

A person with expertise in a relevant area of research

Dr Anne Clark, New South Wales

A person with expertise in assisted reproductive technology

Associate Professor Bernadette Richards, South Australia

A person with expertise in a relevant area of law

Mr Robert Pask, Victoria

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

Professor Patrick Tam, New South Wales

A person with expertise in embryology

Ms Kay Oke, Victoria

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

Appendix B: Variations to licences

During the reporting period, the NHMRC Licensing Committee approved the following variations to existing licences:

Licence No.	Organisation	Date of variation	Brief description of variation
309723	Melbourne IVF Pty Ltd	30 September 2016	Approval of Principal Supervisor
309723	Melbourne IVF Pty Ltd	30 September 2016	Approval of Alternate Principal Supervisor
309723	Melbourne IVF Pty Ltd	30 September 2016	Addition of authorised person
309723	Melbourne IVF Pty Ltd	30 September 2016	Removal of authorised person following completion of training
309718	Genea Ltd	6 October 2016	Extension of licence
309702B	Genea Ltd	6 October 2016	Removal of authorised persons
309703			
309710			
309719			
309722	Monash IVF Pty Ltd	6 October 2016	Variation to the number of excess ART embryos authorised to be used
309723	Melbourne IVF Pty Ltd	6 October 2016	Approval of amended Plain Language Statement
309723	Melbourne IVF Pty Ltd	6 October 2016	Removal of authorised person following completion of training
309723	Melbourne IVF Pty Ltd	24 October 2016	Addition of authorised person

Appendix C: 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. At the 13 April 2007 Council of Australian Governments (COAG) meeting, all jurisdictions (except the Northern Territory) restated their commitment to introduce nationally consistent legislation.

Victoria, New South Wales, Tasmania, Queensland, the Australian Capital Territory and South Australia have all passed amending complementary legislation.

Queensland, Tasmania, South Australia and the Australian Capital Territory have had their legislation declared as 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

Prohibition of Human Cloning for Reproduction Act 2008

New South Wales

Human Cloning for Reproduction and Other Prohibited Practices Act 2003

Research Involving Human Embryos (New South Wales) Act 2003

Tasmania

Human Embryonic Research Regulation Act 2003

Human Cloning for Reproduction and Other Prohibited Practices Act 2003

Queensland

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

South Australia

Prohibition of Human Cloning for Reproduction Act 2003

Research Involving Human Embryos Act 2003

Australian Capital Territory

Human Cloning and Embryo Research Act 2004

Appendix D: 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 is the peak intergovernmental forum in Australia. The members of COAG are 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.

Term	Description
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> .

Term	Description
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”	“Other embryos” 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.
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 2007</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 “other embryo”.

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