

CURRICULUM VITAE

Professor Alan Osborne TROUNSON

Nationality: Australian

Date of Birth: 16/2/1946

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Qualifications:

B.Sc. (Hons II) - 1968 School of Wool and Pastoral Sciences, University of New South Wales, Sydney

M.Sc. - 1971 School of Wool and Pastoral Sciences, University of New South Wales, Sydney
Thesis: "Reproductive characteristics of Merino and Border Leicester ewes"
Supervisor: Associate Professor E.M. Roberts

Ph.D. - 1974 Faculty of Agriculture, Sydney University
Thesis: "Studies on the development of fertilized sheep ova"
Supervisor: Associate Professor N.W. Moore

Doctor Honoris Causa 2003 Faculties of Medical Sciences and Physical Education and Physiotherapy, Vrije Universiteit Brussel, Brussels, Belgium

Present Appointments:

- Founder, Australian Stem Cell Centre (2003)
- Executive Vice-Chairman, Australian Stem Cell Centre (2003 - 2006)
- Global Science Strategy Advisor, Australian Stem Cell Centre (2003 -)
- Director, Monash Immunology and Stem Cell Laboratories (MISCL) (2003 -)

Other University Appointments:

- Director, Centre for Early Human Development, Faculty of Medicine, Monash University (1985- 2002).
- Deputy Director, Monash Institute for Reproduction and Development, Faculty of Medicine, Monash University (1990 - 2002)
- Personal Chair in the Departments of Obstetrics and Gynaecology/Paediatrics (1991-)
- Executive Co-Director and Board Member, Monash Centre for Agricultural Biotechnology (1991 - 1996)
- Chairman, Animal Gene Storage Resource Centre of Australia (1997 -)
- Director, Education Programme in Reproductive Sciences, Faculty of Medicine (1997 - 2002)
- Director, Master of Clinical Embryology Course, Faculty of Medicine (2003 - 2005)
- Secondary Appointment, Department of Immunology, Monash University (2005 -)

Australian Government Appointments

- Board Member, Australian Special Rural Research Council (1989 - 1990).
- Director, Rural Industries Research and Development Corporation of Australia (1990 - 1996)
- Member, Prime Minister's Science, Engineering and Innovation Council Working Group on New Fields of Medicine (2000 - 2002)
- Member, Sub-Committee (Commercialisation) of Committee for Melbourne (2000-2003)
- Director, Victorian Government's Innovation Economy Advisory Board (August 2002 -)
- Ambassador for the National Gallery of Victoria (Sept.2002 -)
- Director, Victorian Endowment for Science, Knowledge and Innovation (VESKI Ltd) (2003 -)

Other Appointments:

- President, Australian Society for Reproductive Biology (1993-1995)
- Professor, Research Advisory Sub-Committee of Racing Victoria Equine Research Fund (1996 - 1999)
- Advisory Board Member, Australia – A Leader in Medical Science and Innovation (1998-
- Board Member of the International Scientific Advisory Board for Reproductive Medicine, N.V. Organon (1998-2002)
- Board Member, Preimplantation Genetics Diagnosis International Society (2002 -)
- Board Member, International Society for Stem Cell Research (2002 -)
- Chair, Government Affairs Committee, International Society for Stem Cell Research (2006 -)
- Member, Infertility Treatment Authority's Clinical and Scientific Panel (2003 -)
- Science Advisory Board Member, Genetics Policy Institute (2003 -)
- Advisory Board Member, Bertarelli Foundation (2004 -)
- Advisory Board Member, The Science Network (TSN) (2004 -)

- International Scientific Advisory Board, Max-Planck Institute for Molecular Biomedicine (2006 -)

Companies Founded

- Infertility Medical Centre Pty Ltd (1988 – 1992)
- Monash IVF Pty Ltd (1992 -)
- IVF Australia – IVF America – IntegraMed Corp. (1986 -)
- Embryonic Stem Cells International (ESCI) Pte Ltd (2000 -)
- CopyRat Pty Ltd (2001 - 2005)
- Maccine Pty Ltd (2001 -)
- IngenKO Pty Ltd (2002 - 2005)
- Australian Stem Cell Centre Pty Ltd (2002 -)

Company Directorships:

- Scientific Consultant and Medical Advisory Board Member, IVF America Inc. (1986 - 1994)
- Scientific Director and Board Member, Sydney IVF Pty Ltd (1987 -1992)
- Scientific Director and Board Member, Infertility Medical Centre Pty Ltd (1988-1992)
- Scientific Director and Board Member, Monash IVF Pty Ltd (1992 - 2003)
- Director, CopyRat Pty Ltd (2001 – 2005)
- Director, IngenKO Pty Ltd (2002 – 2005)
- Director, IngenKO Technologies Pty Ltd (2002 - 2005)
- Director, Maccine Pty Ltd (2001 –)
- Director, Australian Wool Innovation (AWI) (2002 - 2002)
- Director and Chief Executive Officer, National Stem Cell Centre (2002 – 2003)
- Scientific Director and Consultant, Monash IVF Pty Ltd (2003 -)

Awards and Distinctions:

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| 1982 | Awarded a Nomination for the Axel Munthe International Prize in reproduction, Capri, Italy, June 1982. |
| 1990 | Awarded the F.C. Donders Chair for Research, University of Utrecht, The Netherlands for 1992-1993. |
| 1991 | Awarded the Wellcome Australia Medal and Award 1991 for contributions to medical research. |
| 1992 | Awarded the Silver Jubilee Research Prize 1990, Monash University for work in gamete micromanipulation and cryopreservation. |
| 1994 | Awarded the 3rd Patrick Steptoe Memorial Medal by the British Fertility Society for contributions to medical research. |
| 1995 | Awarded the 14th Benjamin Henry Sheares Medal by Obstetrical & Gynaecological Society of Singapore |
| 1995/96 | Awarded a Visiting Research Professorship, Department of Obstetrics & Gynaecology, National University of Singapore |

- 1996/97 Awarded an Honorary Visiting Research Professorship, Department of Obstetrics & Gynaecology, National University of Singapore
- 1997 Awarded the 1997 Banksia Environmental Award for the Animal Gene Storage Resource Centre of Australia in the category of Flora and Fauna Conservation for promotion of biodiversity and conservation
- 1997 Awarded the Barbara Eck Menning Medal and Award by RESOLVE USA for contributions made to the medical field of infertility
- 1998 Presented the Achiever Award by the Committee for Melbourne for “outstanding contributions made globally”
- 1998 Awarded the William C. Andrews Wyeth - Ayerst Lectureship from International Federation of Fertility Societies and the American Society for Reproductive Medicine for Outstanding Contribution to the Advancement of Knowledge for the Delegates to the Congress
- 1999 International Academy of Reproductive Medicine Award for distinguished contributions to reproductive medicine. Awarded at 10th World Congress of Human Reproduction, Salvador, Brazil
- 2000 Inaugural Lloyd Cox Memorial Lecture and Award, University of Adelaide, September 2000.
- 2000 Awarded the John O Miller Distinguished Achievement Award for "distinguished achievements in research on reproduction"
- 2001 Awarded Honorary Member of the Australian Veterinary Association.
- 2002 Amoroso Award for the Society of Reproduction and Fertility (UK)
- 2002 International Consumer Support for Infertility Society – First International Award, Vienna.
- 2002 Editor’s Award for Biotechnologist of the Year – Australian Biotechnology News
- 2003 Awarded the Centenary Medal by the Governor-General.
- 2003 Awarded ‘Australian Humanist of the Year’ by the Australian Humanist Society.
- 2003 Invited Honorary Speaker “Twenty-five years of IVF”, Royal College of Obstetricians and Gynaecologists, London, UK.
- 2004 Awarded the Bertarelli Foundation Award in Reproductive Health for outstanding contribution to the field of assisted reproductive technologies
- 2005 Awarded The Rotary Club of Melbourne Vocational Service Award 2006.
- 2005 Awarded Honorary Fellowship to Royal Australian and New Zealand College of Obstetricians and Gynaecologists.
- 2006 University of New South Wales Alumni Award for Achievement.

Research Interests

- 1974-76 A.R.C. Unit Reproductive Physiology and Biochemistry, Cambridge, England.
Developed the techniques for non-surgical embryo collection and transfer in cattle, pioneered the technique of freezing embryos from farm animals and embryo splitting. These techniques are the basis for the world-wide business of reproductive technologies in the cattle, sheep and goat industries. Basic studies involved the control of oocyte maturation and the requirements for embryo development in culture.
- 1977-85 Department of Obstetrics & Gynaecology, Queen Victoria Hospital, Melbourne.
In collaboration with C. Wood and J. Leeton, developed the technique for human in vitro fertilization (IVF), demonstrated that fertility drugs could produce reliable and consistent success in IVF, developed human embryo freezing, oocyte donation and hormonal replacement therapy for loss of ovarian function and introduced IVF for the treatment of male infertility.
- 1985-91 Centre for Early Human Development, Monash Medical Centre, Melbourne.
Developed new techniques for microinjection of sperm into eggs to aid the treatment of severely infertile men, a new technique of embryo biopsy for genetic and chromosomal analyses of embryos and pioneered new cell cryopreservation techniques. Presently interested in the metabolic requirements of early embryos, molecular control of spermatogenesis, oogenesis, fertilization and early embryonic development, and the nature of embryonic stem cells.
- 1992-95 Institute of Reproduction and Development, Monash Medical Centre, Melbourne
Established an Animal Research Program involving: project support for the development of embryo multiplication and transfer (EMT) in cattle involving oocyte maturation, enucleation, cell fusion, development of embryonic stem cells and nuclear reprogramming; equine research; cattle, camel, sheep and goat reproductive research; artificial breeding and ovulation induction and suppression in dogs; research on sheep milk products and lactation in the Australian sheep; and conservation of wild and captive animals through improved management and reproduction. Continuing interests in human infertility, fertilization and embryo development using micromanipulation, molecular biology and in vitro culture techniques.
- Research initiated on ovarian tissue cryopreservation and transplantation and the development of embryonic stem cells for studies on differentiation, transplantation and gene therapy.
- 1996-99 Institute of Reproduction and Development, Monash Medical Centre, Melbourne
Leading research programs involving:
- Human Infertility: determination of the role of intraovarian regulators in the aetiology of Polycystic Ovarian Disease (PCOD); DNA methylation, oocyte activation and embryo developmental competence after nuclear transfer of immature sperm precursor cells; the role of the sperm centriole in embryogenesis; cytoplasmic and nuclear maturation of human oocytes in vitro and their developmental competence in vitro and

in vivo; growth and development of human embryos to blastocysts in vitro and their selection for viability; genetic analyses of embryos; mutations in the androgen receptor in male infertility; cryopreservation and transplantation of ovarian tissue; cryopreservation of gametes and embryos.

Embryo Physiology: energy and amino acid metabolism during embryogenesis; development of culture media and conditions for mammalian embryos.

Animal Biotechnology: embryo production systems in vitro; cloning by nuclear transfer of bovine embryos; reprogramming terminally differentiated somatic cells; molecular mechanisms involved in cellular differentiation and commitment during development; stage-specific cell surface antigen expression during embryogenesis; identification of novel growth factors in development using differential display.

Stem Cell Biology: control of stem cell renewal; Oct IV expression of embryonic stem cells; development of porcine embryonic stem cells; molecular manipulation of embryonic stem cells.

Human Pluripotential Cells: development and characterisation of human embryonic stem cells; factors monitoring undifferentiated embryonic carcinoma (EC) and embryonic stem (ES) cells in vitro; testicular derived carcinoma cells lines.

Animal Research: sheep and goat dairy production; development of semen collection methods for domestic and wild animals; embryo transfer in buffalo; intracytoplasmic sperm injection (ICSI) of oocytes for infertile stallions; embryo production in juvenile cattle, sheep and goats; development of new embryo freezing methods for domestic animal species.

Animal Gene Storage Resource Centre of Australia: preservation of gametes, gonadal tissue and embryos of wild and endangered animal species; production of canine embryos in vitro; artificial breeding for guide dogs; breeding East African Black Rhino; freezing kangaroo sperm; marsupial embryo production in vitro; breeding and re-introduction of native Australian animals.

2000 - Institute of Reproduction and Development, 27-31 Wright Street, Clayton

Primary Research Interests

Human Reproduction and Genetics: gene expression in primordial and growing follicles and oocytes, maturing oocytes and embryos; maturation of human oocytes in vitro; cryopreservation of human oocytes; embryo culture systems and embryo nutritional requirements; preimplantation genetic diagnosis of aneuploidy and mutations; embryo identification by DNA fingerprinting; trophoblast differentiation, gene expression and implantation.

Stem Cell Biology: production of human pluripotential stem cells and their differentiation in vitro and in vivo; molecular maintenance and regulation of stem cell

proliferation; neural stems and their differentiation; development using cloned embryonic stem cells.

Cellular Dedifferentiation and Cloning: nuclear reprogramming; gene expression in nuclear transfer embryos and during development; cloning of cattle; transgenesis in cattle using cloning techniques; cloning and transgenesis in rats; cloning for animal conservation - Northern Hairy-nosed Wombats; sperm mediated transgenesis.

Gamete, Embryo and Tissue Banking: cryopreservation of gametes, embryos, and ovarian tissue; recovery of gametes after ovarian transplantation; reproductive biology of Australian marsupials, Black Rhino, equidae and cats; sperm banking for mice.

2002-03 National Biotechnology Centre of Excellence – National Stem Cell Centre, Clayton, Victoria

Stem Cell Biology and Stem Cell Therapeutic Applications: drawing together Australian stem cell research interests – both adult and embryonic stem cells for potential therapeutic applications; drawing into stem cell research the biomatrix and applications for tissue engineering and tissue repair; developing an immune tolerance approach for the transplantation of allogenic stem cells.

List of Achievements in Research

1971-74: Culture and micromanipulation of sheep embryos, including embryo splitting

1974-77: Cryopreservation of cattle embryos, non-surgical embryo recovery and transfer of cattle embryos, maturation of sheep and cattle oocytes, culture of sheep, cattle and horse embryos.

1978-85: In vitro fertilization in human infertility, cryopreservation of human embryos, donation of human eggs and embryos, superovulation for IVF in the human.

1986-91: Micromanipulation of human embryos, fertilization by microinjection of sperm into human oocytes, rapid cryopreservation techniques (vitrification), genes involved in embryo development.

1991-94 : Embryo production of cattle embryos in vitro, nuclear transfer and nuclear reprogramming of cattle embryos (EMT), oocyte maturation in the human, intracytoplasmic sperm injection in the human and in animals (mice, cattle and wild animals), growth factors and embryo development in culture, gene libraries in cattle embryos, cryopreservation of oocytes and embryos using vitrification techniques.

1994-99: Identification of excessive EGF receptor function as a principal abnormality in PCOD; successful freezing and transplantation of ovarian tissue for recovery of reproductive function; in vitro maturation of human oocytes and birth of normal babies; development of improved embryo culture systems to enable blastocyst transfer in the human, more than doubling IVF success rates; multiplication of cattle embryos to

produce 500+ from a single embryo and large numbers of cloned calves; production of cell lines derived from human embryos; production of Black Rhino calves; production of horse pregnancies by ICSI; identification of androgen receptor mutations in human male infertility.

1999-

2003: Development of human embryonic stem cells. Controlled differentiation of human embryonic stem cells into pure nerve cells in culture. Directed differentiation of mouse and human embryonic stem cells into respiratory tissues. Cloning of cattle somatic cells and their successful use for producing transgenic pregnancies and calves. Identification of genes that are not reprogrammed in nuclear transfer embryos. Successful cryopreservation by vitrification of human and other mammalian oocytes. Identification of trinucleotide repeat expansion as a cause of male infertility and their inheritance to offspring. Maturation of human oocytes in vitro (IVM) as a new treatment option in human IVF. Aneuploidy in human embryos and lineage tracing to inner cell mass during preimplantation development - cause of embryo wastage and birth defects. Contributions to the understanding of wild and captive animal reproduction, including kangaroos, wombats and Black Rhinos. Cryopreservation of mouse sperm for use in major mutagenesis programs. Demonstration of genetic safety of intracytoplasmic sperm injection (ICSI). Production of viable young from xenotransplanted ovaries.

Undergraduate and Postgraduate Awards:

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| 1962-67 | Commonwealth Undergraduate Scholarship Banks and Business Houses Scholarship in Wool Technology |
| 1971-73 | Commonwealth Postgraduate Scholarship |
| 1974-76 | Dalgety International Research Fellowship |
| 1977-79 | Ford Foundation Senior Research Fellowship |

Postgraduate Appointments:

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| 1968-70 | Professional Officer, School of Wool and Pastoral Sciences, University of New South Wales. |
| 1971-73 | Ph.D. Student, Department of Animal Husbandry, Sydney University. |
| 1974-76 | Research Fellow, Agricultural Research Council Unit of Reproductive Physiology and Biochemistry, Cambridge, U.K. |
| 1976 | Visiting Research Fellow, Faculty of Veterinary Science, Utrecht University, Holland. |
| 1976 | Visiting Professor, Department of Medical Biochemistry, University of Calgary, Canada. |
| 1977 | Senior Research Fellow, Department of Obstetrics and Gynaecology, Monash University, Queen Victoria Hospital, Melbourne. |

Monash University Appointments:

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| 1978 | Temporary Lecturer, Department of Obstetrics and Gynaecology |
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| 1979 | Permanent Fixed-term Lecturer, Department of Obstetrics and Gynaecology. |
| 1980 | Permanent Lecturer, Department of Obstetrics and Gynaecology. |
| 1981 | Senior Lecturer, Department of Obstetrics and Gynaecology. |
| 1984 | Reader, Department of Obstetrics and Gynaecology. |
| 1985 | Director, Centre for Early Human Development. |
| 1990 | Reappointed Director, Centre for Early Human Development. |
| 1990 | Deputy Director, Institute for Reproduction and Development. |
| 1991 | Executive Co-Director, Centre for Agricultural Biotechnology. |
| 1991 | Personal Chair in Obstetrics and Gynaecology/Paediatrics |
| 1997 | Director, Education Programme in Reproductive Sciences (Diploma and Masters of Reproductive Sciences) |
| 2001 | Director, Institute of Reproduction and Development |
| 2003 | Director, Monash Immunology and Stem Cell Laboratories |

Supervision Of Student Theses

a) Undergraduate Students

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| 1984: | B.Sc. (Hons I) R. Campbell “Organisation of embryonic cell division and inner cell mass formation” |
| 1987/8: | B.Med.Sci (Hons I) G. Somers “Allocation of cells to the inner cell mass and trophoderm in preimplantation embryos” |
| 1988/9: | B.Med.Sci (Hons I) J. Tomlinson “Transplantation of embryonic haemopoietic cells” |
| 1990/1: | B.Med.Sci N. Lacy “Sexing of embryos using specific DNA probes.” Failed to complete due to illness. |
| 1992: | B.Sc. (Hons I) M. Herbert “Investigation into the expression patterns of three microinjected DNA constructs, and the relationship between expression and integration of microinjected DNA in the mouse preimplantation embryo”. |

- 1992: B.Sc. (Hons IIA) D. Pushett “Aim of the project is to optimize the culture used for bovine embryos in *in vitro* fertilization so that both the rates of fertilization and blastocyst formation are increased.
- 1993: B.Sc. (Hons. IIA) - C. Anderiesz “Developmental capacity of oocytes in PCO patients”
- 1993: B.Sc. (Hons.IIA) - K. Giliam “Looking at the role of EGF and TGF β in the maturation of bovine oocytes *in vitro*”
- 1993: B.Sc. (Hons. IIA) - A. Nagodavithane, “The effects of growth factors on murine follicular growth and steroidogenesis”.
- 1997: B.Med.Sc - H Lewis, “The effect of cyclophosphamide on the ovaries of immature mice”.
- 2000: B.Sc. (Hons I) – M Denham, “Chromosome Painting for Identificaiton of Translocations in Preimplantation Embryos”.
- 2001: B.Sc (Hons I) – T Huynh, “Manipulating Stem Cells Differentiation Pathways”.
- 2004: B.Med.Sc (Hons I) – C. Tan “Germline stem cells on the adult mouse ovary”.
- 2005: B.Med.Sc (Hons IIA) – N. Lam “Differentiation of human embryonic stem cells into respiratory progenitors”.
- 2005: B.Med.Sc (Hons IIA) – D. Atienza “Isolation of mesenchymal stem cells from umbilical cord blood and their multilineage differentiation potential”.
- 2005: B.Sc – H. Jarid “Stem cells in the treatment of emphysema.
- 2006: B.Med.Sc – T. Goldwasser “Isolation of stem cells with lung cancer”.
- 2006: B.Med.Sc – M. Ho “Stem cells and immunology”.
- 2006: B.Med.Sc – A. Bruce “Introduction of GFP reporter gene into embryonic stem cells using homologues”
- 2006: B.Sc – M. Arico “Embryonic stem cells and differentiatin into lung tissue”.
- 2006: B.Sc – P. Singh “Rebuilding immunity for better health”.

b) Postgraduate Students

- 1983/85: M.Sc. (1985) - A. Stojanoff "Human sperm hyaluronidase"
- 1977/81: Ph.D. (1982) - M. Mahadevan "Cryobiological and biochemical studies of human semen"
- 1978/82: Ph.D. (1983) - L. Mohr "Assessment of mammalian embryo viability"
- 1982/83: Discontinued Ph.D. - M. Thavarajah "Embryo development and differentiation; an ultrastructural and biochemical study"
- 1982/86: Ph.D. (1986-Uni.Qld.) - P. Lutjen "Biochemical studies on cervical mucus"
- 1985/92: Ph.D. (1992) - C. Yates "Fertilization in vitro in the clinically infertile male"
- 1984: Discontinued Ph.D. - D. Jessup "The micromanipulation and preservation of mammalian embryos"
- 1985: Discontinued Ph.D. - R. Campbell "Mammalian embryo biopsy, development and differentiation"
- 1986/89: Ph.D. (1990) - D. Sakkas "The development of preimplantation embryos in co-culture with feeder cells"
- 1987/93: Ph.D. (1994) - C. Holden "Human sperm capacitation and fertilization capacity"
- 1988/92: Ph.D. (1993) - J. Kumar "The effects of exogenous gonadotrophins on oocyte maturation in the goat"
- 1988/92: Ph.D. (1992 Uni. NSW) - R.Li "Studies on embryo cryopreservation and development of sheep embryonic stem cells"
- 1990/95: Ph.D. (1996) - O. Lacham-Kaplan "Studies on fertilization and embryo development using sperm microinjection techniques"
- 1992-: Part-time Ph.D. student - I. Lewis "Nuclear transfer in mammals"
- 1991/92: M. Reprod. Sci. (1993) - A. Oranratnachai "Rapid cooling of immature and *in vitro* matured bovine oocytes and microinjection of sperm into *in vitro* matured bovine oocytes"
- 1992/95: Ph.D. (1995) - B. Tatham "Micromanipulation of cattle embryos"

- 1993/96: Ph.D.(1996) - M. Lane "Evaluation and determination of mammalian embryo viability"
- 1994-2000: Ph.D. (2001) - C. Anderiesz "Oocyte maturation and developmental competence"
- 1994-2000: Part-time Ph.D. (2001) - D. Pushett "Assisted reproduction and subsequent embryo development to form embryos for transfer and cryobanking in endangered cats using the domestic cat as a model". Thesis submitted.
- 1993-94 M.Rep.Sc. (1995) - M. Valiotis "Pronuclear formation and embryonic development of oocytes after electrofusion with round spermatids in the mouse"
- 1995-2001: Ph.D. (2001) - M. Munsie "Nuclear transfer in mouse: Reprogramming to pluripotency"
- 1996-1998: Ph.D. (1999) - G. Gougoulidis "Expression and function of the TEC epitopes during bovine embryogenesis"
- 1996-2000: Ph.D. (2001) - T. Steeves " In vitro produced bovine embryo: factors affecting development and metabolism"
- 1996-2000: M.Sc. (2000) - E. Curnow (part-time) "Application of ART for conservation biology - study of aggregation chimeras". Thesis submitted.
- 1998-2001: Ph.D. (2002) – B. Reubinoff "Human embryonic stem cells growth and differentiation".
- 1998-2005 Ph.D. (part-time) - G. Palermo "Prevention of chromosomal aneuploidy in aged human oocytes".
- 1998-2001: M.Sc. (2001) - S. Reinke "Ovarian structure and function in the Eastern Grey and Red Kangaroo".
- 1999-2006 Ph.D. (part-time) - M. Alikani "Enhancing development of the aberrant human embryo conceived in vitro"
- 1999-2004 Ph.D. - D. Lyrawati "Mitochondrial DNA and cattle nuclear transfer".
- 2001-2005 PhD - M Denham "Transdifferentiation of neural and hematopoietic stem cell into that of a respiratory cell lineage".
- 2001- PhD - N Borg "Preimplantation rat embryo genesis in vitro and chimaeric development"

- 2001- PhD – B Rollo “Identification of Reprogramming Factors in the Mammalian Oocyte”
- 2001-2005 PhD – E. Osborne “New strategies for the diagnosis of chromosomal copy number”.
- 2001-2007 PhD – C. Salvado “Preimplantation genetic diagnosis on a microarray”.
- 2002-2006 PhD – G. Thouas “Perturbation of mitochondrial function in oocytes and preimplantation embryos”.
- 2004- PhD – H. Lewis-Roness “Is it possible to replace dysfunctional lung epithelium and repair lung functionality in a transgenic cystic fibrosis mouse by using exogenous mesenchymal or embryonic stem cells?”
- 2004-2005 MRepSci – A. Doan “Differentiation of MSCs down respiratory epithelial lineages.
- 2005- PhD – H.M. Low “The fetal sheep as a model for the study of stem cells and their derivatives during normal development and in fetal compromise.”
- 2005- PhD – P. Milton “Homing and engraftment of mesenchymal stem cells in normal mice and mice with Bleomycin induced lung injury”.
- 2006- PhD – C. Tan “Stem cells and autoimmunity”
- 2006- PhD – A. Goulburn “Embryonic stem cells and differentiation into lung tissue for development of a 3-D in vitro model of Cystic Fibrosis (CF) airways”.

PUBLICATIONS

Edited Books and Monographs

1. J.N. Shelton, A.O. Trounson, N.W. Moore and J.W. James, eds. (1982). *Embryo Transfer in Cattle, Sheep and Goats*. Australian Society for Reproductive Biology, University of Sydney, Camden.
2. C. Wood and A. Trounson, eds. (1984). *Clinical In Vitro Fertilization*, Springer-Verlag, Berlin.
3. A. Trounson and C. Wood, eds. (1984). *In Vitro Fertilization and Embryo Transfer*. Churchill Livingstone, London.
4. A.H. Sathananthan, A.O. Trounson and C. Wood, eds. (1985). *Ultrastructural Atlas of Human Fertilization and Embryonic Development*. Praeger, Philadelphia.
5. C. Wood and A. Trounson, eds. (1985). *New Clinical Issues in In Vitro Fertilization*. *Clinics in Obstetrics and Gynaecology* **12** (14). W. B. Saunders Co. London.
6. C. Wood and A. Trounson, eds. (1989) *Clinical In Vitro Fertilization*. Second Edition. Springer-Verlag, Berlin.
7. A.O. Trounson and D.K. Gardner, eds. (1993). *A Handbook of In Vitro Fertilization*. CRC Press, Boca Raton, Florida, ISBN No. 0 8 493 2922 1; pp 324.
8. L. Gianaroli, A. Campana and A.O. Trounson, eds. (1993). *Implantation in mammals*. Serono Symposia Publications, Raven Press, New York, ISBN No. 0 88167 9054, Vol 91, pp 328.
9. A.H. Sathananthan, S.C. Ng, A. Bongso, A. Trounson and S.S. Ratnam, eds. (1993). *Visual atlas of early human development for assisted reproductive technology*. Department of Obstetrics and Gynaecology, National University of Singapore and Serono Pty Ltd, Singapore, pp 209.
10. FA Moeloek, B Affandi and A O Trounson, eds. (1995). *Advances in Human Reproduction*. The International Congress, Symposium and Seminar Series, Vol 7, F.A. Moebek Parthenon Publishing Group, New York, 535 pp, 1995, ISBN No. 0969-2622.
11. AO Trounson and DK Gardner, eds (2000) *Handbook of In Vitro Fertilization Second Edition*. CRC Press, Boca Raton, Florida, ISBN No. 0-8493-4002-0; pp 560.
12. AO Trounson and R Gosden, eds. (2003) *Biology and Pathology of the Oocyte*. Cambridge University Press, United Kingdom, ISBN 0 521 79958, pp 350.
13. PJ Verma, AO Trounson (Eds) (2006). *Methods in Molecular Biology – Nuclear Transfer Protocols: Cell Reprogramming and Transgenesis*. Humana Press, New Jersey, ISBN 1064-3745, pp 337.

Chapters in Commercial Books

1. R. Newcomb, L.E.A. Rowson and A.O. Trounson (1976). The entry of superovulated eggs into the uterus. In: *Egg Transfer in Cattle*. Ed. L.E.A. Rowson. Commission of the European Communities, Luxembourg. pp. 117-124.
2. S.M. Willadsen, A.O. Trounson, C. Polge, L.E.A. Rowson and R. Newcomb (1976). Low temperature preservation of cow eggs. In: *Egg Transfer in Cattle* Ed. L.E.A Rowson. Commission of the European Communities, Luxembourg. pp. 117-124.

3. S.M. Willadsen, A.O. Trounson, C. Polge, L.E.A. Rowson and R. Newcomb (1976). Preservation of cow embryos in vitro. Proc. VIIIth Int. Cong. Anim. Reprod. A.I. Krakow, 329-331.
4. S.M. Willadsen, C. Polge, A.O. Trounson and L.E.A. Rowson (1977). Transplantation of sheep and cattle embryos after storage at -196° C. Ciba Foundation No. 52. The freezing of Mammalian Embryos. pp. 190-194, Excerpta Medica, North Holland.
5. A.O. Trounson, M. Mahadevan, J. Wood and J.F. Leeton (1979). Studies on the deep freezing and artificial insemination of human semen. In: Frozen Human Semen. Eds. D. Richardson, D. Joyce, M. Symonds, RCOG, London. pp. 173-185.
6. M. Mahadevan and A.O. Trounson (1980). Cryopreservation of human semen. A. O'Connor and A.O. Trounson (1980). Appendix: Life table analysis for AID data. In: A.I.D. ed. E.C. Wood, Monash Uni. Press, pp. 19-37.
7. A.O. Trounson, J.F. Leeton, C. Wood, B. Buttery, J. Webb, J. Wood, D. Jessup, J. McTalbot and G. Kovacs (1981). A programme of successful in vitro fertilization and embryo transfer in the controlled ovulatory cycle. In: Human Reproduction, Eds. K. Semm and L. Mettler, Excerpta Medica, Amsterdam, pp. 173-180.
8. J. Leeton and A. Trounson (1982). Application of in vitro fertilization to idiopathic infertility. In: Human Conception in Vitro, eds Edwards R.G, Purdy J M, Academic Press, 325-334.
9. J. Leeton, A. Trounson and C. Wood (1982). IVF and ET. What is it and how it works. In: Test-tube Babies, eds Walters W A W, Singer P, Oxford University Press, 2-10.
10. A.O. Trounson (1982). Current perspectives and future prospects of in vitro fertilization. In: In Vitro Fertilization: Problems and Possibilities, ed. Brumbry M N, Monash University, 41-47.
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262. M Cleary, M West, J Shaw, G Jenkin, A Trounson (2003) In vitro maturation of oocytes from non-stimulated common wombats. *Reprod Fertil Devel* 15: 303-310.
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283. MD Serafica, T Goto, AO Trounson (2005) Transcripts from a human primordial follicle cDNA library. *Hum Reprod* 20: 2074-2091.
284. GA Thouas, AO Trounson, GM Jones (2005) Effect of female age on mouse oocyte developmental competence following mitochondrial injury. *Biol Reprod* 73: 366-373.
285. A Trounson (2005) Developments in infertility therapy – diagnosis of genetic disease in embryos. *Aust Fam Physician* 34: 123-125.
286. MG Katz-Jaffe, AO Trounson, DS Cram (2005) Chromosome 21 mosaic human preimplantation embryos predominantly arise from diploid conceptions. *Fertil Steril* 84: 634-643.
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288. EC Osborne, AO Trounson, DS Cram (2005) A QF-PCR system to detect chromosome 13 aneuploidy from as few as ten cells. *Am J Med Genet A* 134: 33-38.
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290. D Pralong, K Mroziak, F Occhiodoro, N Wijesundara, H Sumer, AL van Boxtel, A Trounson, PJ Verma (2005) A novel method for somatic cell nuclear transfer to mouse embryonic stem cells. *Cloning and Stem Cells* 7: 265-271.

291. AJ Melville, J Harrison, KA Gross, JS Forsythe, AO Trounson, R Mollard (2006) Mouse embryonic stem cell colonisation of carbonated apatite surfaces. *Biomaterials* 27: 615-622.
292. RA Taylor, PA Cowin, GR Cunha, M Pera, AO Trounson, J Pedersen, GP Risbridger (2006) Formation of human prostate tissue from embryonic stem cells. *Nature Methods* 3: 179-181.
293. O Lacham-Kaplan, H Chy, A Trounson (2006) Testicular cell conditioned medium supports differentiation of embryonic stem cells into ovarian structures containing oocytes. *Stem Cells* 24: 266-273.
294. M Denham, T Huynh, M Dottori, G Allen, A Trounson, R Mollard (2006) Neural stem cells express non-neural markers during embryoid body co-culture. *Stem Cells* 24: 918-927
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296. HY Yang, S-L Cox, G Jenkin, J Findlay, A Trounson, J Shaw (2006) Graft site and gonadotrophin stimulation influences the number and quality of oocytes from murine ovarian tissue grafts. *Reproduction* 131: 851-859.
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299. GM Jones, B Song, DS Cram, AO Trounson (2007) Optimization of a microarray based approach for deriving representative gene expression profiles from human oocytes. *Mol Reprod Develop* 74: 8-17.
300. A Trounson (2007) Use of embryonic stem cells for endocrine disorders. *Hormone Research* 67 (suppl 1): 28-31.
301. G Kokkali, J Traeger-Synodinos, C Vrettou, D Stavrou, GM Jones, DS Cram, E Makrakis, AO Trounson, E Kanavakis and K Pantos (2007) Blastocyst biopsy versus cleavage stage biopsy and blastocyst transfer for preimplantation diagnosis of β -thalassaemia: a pilot study. *Human Reprod* 22: 1443-1449.
302. GQ Daley, L Ahrlund-Richter, JM Auerbach, N Benvenisty, RA Charo, G Chen, H-K Deng, LS Goldstein, KL Hudson, I Hyun, SC Junn, J Love, EH Lee, A McLaren, CL Mummery, N Nakatsuji, C Racowsky, H Rooke, J Rossant, HR Scholer, JH Solbakk, P Taylor, AO Trounson, IL Weissman, I Wilmut, J Yu, L Zoloth (2007) The ISSCR Guidelines for Human Embryonic Stem Cell Research. *Science* 315: 603-604.
303. A Giudice and A Trounson (2007) Genetic manipulation of human embryonic stem cells for cell based therapy. *Nature Biotech.* (submitted).
304. EC Osborne, M Lynch, R McLachlan, AO Trounson, DS Cram (2007) Microarray detection of Y chromosome deletions associated with male infertility. *Asian J Andrology* (submitted).

Refereed Journal Articles - Issues and Views

1. A.O. Trounson, C. Wood and J. Leeton (1982). Freezing of human embryos: An ethical obligation. *Med. J. Aust.* 2: 332-334.
2. A. Trounson and C. Wood (1987) In-vitro fertilization. *Med. J. Aust.* 146:338-340.
3. A. Trounson. (1987) In vitro fertilization - past, present and future. *Search* 18:116-118

4. A. Trounson, K. Hammarberg (1989) The benefits of natural cycle IVF. *Healthright* 8:22-25.
5. A. Trounson (1992) Preimplantation genetic diagnosis - counting chickens before they hatch? *Human Reprod.* 7: 583-584.
6. AO Trounson and GM Jones (1993) Freezing of embryos: Early vs late stages. *J. Assist. Reprod. Genet.*, 10: 179-181.
7. A.O. Trounson (1994) Research on the development of human embryonic stem cells. *Singapore J. Obst. Gyn.* 25: 245.
8. AO Trounson (1997) Editorial - Cloning: Potential benefits for human medicine. *Med. J. Aust.* 167: 568-569.
9. AO Trounson and K Giliam (1999) What does cloning offer human medicine. *Life Science* 11: 12-14.
10. GM Jones, AO Trounson (1999) Debate Article -Blastocyst stage transfer: pitfalls and benefits - The benefits of extended culture. *Hum. Reprod.* 14: 1405-1408.
11. AO Trounson (1999) What if there is a "sunset clause" on the Y chromosome? *Med. J. Aust.* 171: 660-662.
12. EC Wood, A Trounson (2000) Uses of embryo duplication in humans. *Hum. Reprod.* 15: 497-501.
13. IM Lewis, AE McClintock, AJ French, KA Zuelke, BA Harford and AO Trounson (2000) Cloning and transgenesis in far animals – an Australian perspective. *Aust Vet J* 78:694-697
14. A Trounson (2001) The genesis of embryonic stem cells. *Nat Biotech* 20:237-238.
15. A Trounson (2004) Research must continue on preimplantation genetic diagnosis methodologies. *Fertil. Steril.* 82: 299.
16. A Trounson (2004) A crime against humanity. *New Sci.* 180: 23.
17. A Trounson (2007) A fluid means of stem cell generation. *Nature Biotech* 25: 62-63.

Published Conference Papers

1. A. Trounson and I. Kola (1992) Artificial breeding technology: Overcoming the limitations to increased production. *The National Conference on Animal Biotechnology in Agriculture* Victorian Institute of Animal Science, Attwood 5A(i)-5A(ix).
2. A. Cameron, I. Lewis, R. Li and A. O. Trounson (1991) The use of embryonic stem cells for cloning dairy cattle. *Molecular Biology and Milk Production*, Proc. workshop sponsored by Dairy Research and Development Corporation, Melbourne, 141-145.
3. I.M. Lewis, B.G. Tatham, L.J. Maclellan, D.A. Pushett and A.O. Trounson (1992) In vitro maturation and fertilization of bovine oocytes and subsequent embryo culture - an Australian perspective. *Proc. Aust. Ass. Animal Artificial Breeders*, Adelaide, September, 13-18.
4. A. Trounson (1992) Micromanipulation and embryo biopsy. *International Conference on the Assisted Reproductive Technologies*, California, USA, 55-8.
5. A. Trounson (1992) Gamete freezing. *International Conference on the Assisted Reproductive Technologies*, California, USA, 61-4.
6. A. Trounson and J.M. Shaw (1992) Fertilization and in vitro development of frozen-thawed MII mouse oocytes. *Society for the Study of Fertility*.
7. A. Trounson (1994) Progress in reproductive biology and implications for the new reproductive technologies in human IVF. *Fetal Research Meeting*, USA, 19-22.

8. A. Trounson, J. Shaw and C. Wood (1995) Preservation of ovarian function. The 4th International Symposium on Turner Syndrome, Sweden, Elsevier Science B.V. The Netherlands, p. 229-232.
9. A. Trounson, J.M. Shaw and C. Wood (1995) Ovarian tissue transplantation. 8th Annual In Vitro Fertilization and Embryo Transfer Symposium. Santa Barbara, California, 353-359.
10. A. Trounson, A. Szell, F. Barnes and C. Wood (1995) Retrieval and maturation of immature oocytes - is this the future?. 8th Annual In vitro Fertilization and Embryo Transfer Symposium, Santa Barbara, California, 45-50.
11. AO Trounson & A Bongso (1996) Cryopreservation of embryos and oocytes, 44th Annual Meeting of Pacific Coast Fertility Society Post Graduate Course Syllabus, California, USA. p. 12-19.
12. AO Trounson, A Bongso, A Szell and F Barnes (1996) Retrieval and maturation of immature oocytes. 44th Annual Meeting of Pacific Coast Fertility Society Post Graduate Course Syllabus, California, USA. p45-50.
13. AO Trounson & A Bongso (1996) Cryopreservation of embryos and oocytes, Assisted Reproductive Techniques Course, Singapore, p.101-105.
14. AO Trounson, A Bongso, A Szell and F Barnes (1996) Retrieval and maturation of immature oocytes, Assisted Reproductive Techniques Course, Singapore, p. 147-150.
15. AO Trounson, A Bongso, G Jones, DK Gardner (1996) Growing and selecting blastocysts for transfer. Society for Assisted Reproductive Technology Post Graduate Course Syllabus, Boston.
16. AO Trounson (1997) An embryologist's view of ovulation induction, Organon Symposium on Evolution in Ovulation Induction and ART: New Treatment Modalities for the Next Millennium, Florida, USA, p. 77-81.
17. G Jones, A Trounson (1997) In vitro maturation of primary oocytes recovered polycystic ovaries, Human Oocytes: From Physiology to IVF, Bologna, Italy, April 1997.
18. GM Jones, AO Trounson, A Kausche, P Vella, N Lolatgis, C Wood (1998) Blastocyst culture and transfer. Proceedings of Treatment of infertility: the new frontiers, Boca Raton, Florida, January 1998; 191-202.
19. A Trounson, G Jones, A Kausche, P Vella, N Lolatgis, C Wood (1998) Embryo development to blastocysts: application for superovulated IVF cycles, natural IVF cycles and in vitro maturation cycles. First Magisterial Tribune in Human Reproduction: Pioneers of Ideas and Ideas of Pioneers Symposium, Buenos Aires, Argentina, April 1998.
20. A Trounson, T Peura, I Lewis (1998) Cloning cattle. First Magisterial Tribune in Human Reproduction: Pioneers of Ideas and Ideas of Pioneers Symposium, Buenos Aires, Argentina, April 1998.
21. A Trounson (1998) New developments in human embryology offer a new dimension to clinical reproductive medicine. Proceedings of the XVI World Congress on Fertility and Sterility, San Francisco, USA, October 1998, 39-49.
22. Trounson A, Gunn I, Lacham-Kaplan O, Lewis I, Mc Kinnon A, Peura T, Shaw J (1998) Manipulation of development: opportunities for animal breeding. In: Gametes: Development and Function. Eds. A Laurice, F Gaudolfi, G Enne, L Gianaroli. Sero Symposia, Rome pp 485-499.
23. AJ French, IL Lewis, R Daniels, NT Ruddock, AO Trounson (2001) Cloning and Functional Genomics: Current Opinion and Future Initiatives. In: Sixth Symposium of the Malaysian Society of Applied Biology. Eds. SC Quah, YY Lim, Mohammed Omar, CG Phoon, Kuala Lumpur p5.

24. GM Jones, F Figueiredo, T Osianlis, AK Pope, L Rombauts, TE Steeves, GA Thouas and AO Trounson (2001) Embryo Culture, Assessment, Selection and Transfer. World Health Organisation Technical Reference Series
25. A Trounson (2003) How do current laws limit embryonic stem cell research. Chiron, p9.

SENIOR INVESTIGATOR RESEARCH GRANTS

- 1974 - 1976 Dalgety International Research Fellowship
- 1977 - 1978 Ford Foundation Research Fellowship
Terminated December, 1977, to accept Lectureship at Monash University.
- Ford Foundation Grant to study "Human Embryogenesis" including support for Research Assistant - (1977-1978 Dr. P. Nayudu), (1979-1981 L. Hand).
- 1978 - 1980 International Planned Parenthood Federation Research Grant for "Studies on Antibodies to the Zona Pellucida and their role in Contraception and Infertility".
(\$ 16,000 Austr.)
- 1979 - 1981 National Health & Medical Research Council (Australia) Grant for "Studies on Mammalian Preimplantation Embryo Biochemistry and Development", including three years support for a Research Fellowship (Dr. P. Nayudu)
(\$ 65,000 Aust.)
- 1977 - Research Project support in the area of "Sperm and Embryo Preservation and Artificial Insemination" from the Melbourne Family Medical Centre (A.I.D.) (\$6,000 - \$ 10,000/year), including the salary support for a Research Assistant (A. Morris, B.Sc.) for "Studies on the HY antigen in sperm and ova".
- 1978 Arthur Wilson Memorial Fund Grant for research on "Immunological Sex Separation of Human Sperm".
(\$ 5,000 Aust.)
- 1979 Dalgety New Zealand Research Grant for the salary support of a Research Assistant to examine "Sexing of Mammalian Embryos and Sperm".
(\$ 12,000 Aust.)
- 1979 Rose Hallenstein Charitable Fund Grant to contribute to studies on "In Vitro Fertilization of Human Ova".
(\$ 2,000 Aust.)
- 1978 - 1979 Monash University Special Research Grant for immunological studies in human embryogenesis.
(\$ 10,000 Aust.)

- 1981 - 1984 National Health & Medical Research Council, Studies on male fertility by methods of in vitro fertilization.
(\$60,000 Aust.)
- 1981 - 1983 Rural Credits Development Fund - The development of techniques for frozen preservation, transport and transplantation of cattle embryos.
(\$ 25,000 Aust.)
- 1981 - 1983 National Health & Medical Research Council, Cellular aspects of cryopreservation of mammalian embryos.
(\$ 60,000 Aust.)
- 1983 - 1985 Rural Credits Development Fund - Establishment of a Cryobank for valuable strains of Australian Sheep (E.M. Roberts, A.O. Trounson and N.W. Moore, University of N.S.W., Monash University and Sydney University).
(\$ 30,000/year).
- 1984 William Buckland Foundation - Role of glycoprotein in the processes of fertilization, early embryonic development and implantation.
(\$ 10,000).
- 1984 Monash Special Research Grant - The role of glycoproteins and their associated enzyme systems in human infertility.
(\$ 7,000).
- 1985 William Buckland Foundation - The role of glycoproteins in human reproduction
(\$ 8,000).
- 1985 Monash Special Research Grant - The role of the uterine micro-vasculature in early implantation.
(\$ 7,500).
- 1985 - 1987 National Health & Medical Research Council - A study of human sperm function in vitro in relation to infertility.
(\$ 35,000/year).
- National Health & Medical Research Council - Characterization and correction of cervical factor infertility.
(\$ 25,000/year).
- National Health & Medical Research Council - Studies on mammalian egg and embryo cryopreservation.
(\$ 45,000/year).

- 1986 Monash Special Research Grants
 a) Effects of embryotoxic, carcinogenic, mutagenic agents on preimplantation mouse embryos,
 b) Human spermatozoal and seminal plasma biochemistry,
 c) Studies on microsurgical insemination,
 d) In vitro organogenesis of marsupial embryos (\$ 26,000).
- 1987 Monash University Special Research Grants.
 a) The development and implantation of mouse embryos on oviducted and uterine epithelial cell cultures in vitro (\$4,000).
 b) An investigation of roles of hsp 70 and calmodulin in preimplantation embryos development (\$8,000)
- Jack Brockhoff Foundation. An evaluation of the genetic normality of mouse embryos derived from cryopreserved and vitrified oocytes (\$37,000).
- Helen M. Schutt Trust.
 Funds for purchase of a centrifuge (\$19,000)
- 1986-1988 National Health and Medical Research Council.
 Studies on the recognition and binding of human spermatozoa to zona pellucida (\$55,000/year)
- 1987 National Health and Medical Research Council.
 Application for an electron microscope for studies in reproduction. (\$86,000)
- 1987-1989 National Health and Medical Research Council
 Embryonic biopsy for diagnosis of genetic and developmental defects. (\$60,000/year)
- National Health and Medical Research Council.
 Diaelectrophoresis and electron fusion in fertilization and embryogenesis. (\$47,000/year)
- National Health and Medical Research Council.
 Teratogen effects on preimplantation embryos. (\$30,000/year)
- 1986-1988 Embryo Technology Pty Ltd.,
 Research on artificial breeding of goats. (\$65,000/year)
- 1988-1990 National Health and Medical Research Council.
 Development of new techniques for severe male infertility.

- (\$61,000/year)
- National Health and Medical Research Council.
Cryopreservation of mammalian eggs and embryos.
(\$60,000/year)
- 1988 Monash University Special Research Grant.
Use of antisense RNA to study the roles of hsp-70 and calmodulin in early embryos. (\$5,000)
- Felton Bequest.
An evaluation of the normality of offspring of female mice treated with an anticancer drug before pregnancy
(\$8,000)
- 1989-1991 National Health and Medical Research Council.
Use of antisense RNA to study the roles of HSP-70 and calmodulin in early embryos.
(\$49,937/year)
- 1989-1991 National Health and Medical Research Council.
Coculture of preimplantation embryos with oviduct and uterine cells.
(\$32,037/year)
- 1989-1990 Embryo Technology Pty. Ltd.
Research on animal reproduction.
(\$70,000/year)
- 1989 Monash Special Research Grant.
Capacitation of mammalian sperm by coculture with oviduct and uterine epithelial cells.
(\$2,550).
- 1990-1992 National Health and Medical Research Council. Investigation of embryo viability, differentiation and development by embryo biopsy.
(\$41,400/year).
- 1989-1995 IVF Australia (U.S.A.) Special Research Grant.
Research in reproduction and development.
(\$300,000/year).
- 1990 National Health and Medical Research Council.
Assessment of embryo metabolism and viability using ultramicrofluorometric techniques - equipment grant.
(\$53,000).
- 1991 National Health and Medical Research Council.
Cryopreservation of mammalian oocytes.

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| | (\$42,500). |
| 1991-1993 | National Health and Medical Research Council. Sperm maturation and microinjection for treating severe male infertility. (\$87,700/year) |
| 1991 | Australian Research Grants Council - Small Grant Development of physiologically-based media for preimplantation mammalian embryos. (\$10,200) |
| 1991 | Embryotechnology Pty. Ltd. Research on animal reproduction. (\$45,000) |
| 1991-1993 | Dairy Research and Development Corporation Optimization of in vitro culture conditions for embryos of domestic animals. (\$156,000) |
| 1992-1994 | National Health and Medical Research Council Cryopreservation of mammalian oocytes. (\$56,700) |
| 1992-1994 | Industry Research and Development Board, Department of Industry Trade and Commerce. Nuclear transplantation in animal breeding. (\$815,000) |
| 1992-1994 | Victorian Artificial Breeders Co-operative Embryo multiplication and transfer in cattle. (\$180,000) |
| 1993 | Australian Research Council - Small Grant Development of a bioassay to determine genetic and environmental effects on cell fitness. (\$15,897) |
| 1993-1997 | Monash IVF Research in studies on human infertility (\$420,000/ year) |
| 1993-1995 | National Health and Medical Research Council Analysis of the mechanisms of genomic imprinting during mouse embryogenesis. (\$65,909) |
| 1994-1996 | Australian Research Council Large Grant: Nuclear reprogramming of transcriptionally active bovine embryonic cells (\$177,000) |

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| 1995 - 1997 | National Health and Medical Research Council The role of intraovarian growth factors in Polycystic Ovarian Syndrome (\$54,701/year) |
| 1995 - 1997 | National Health and Medical Research Council The role of gamete maturation and sperm centrioles in fertilization, embryogenesis and infertility (\$57,873/year) |
| 1995 - 1997 | Meat Research Corporation The production of elite breeding stock by embryo multiplication (\$856,378) for 3 years |
| 1995 - 1997 | Dairy Research and Development Corporation The production of elite breeding stock by embryo multiplication (\$432,987) for 3 years |
| 1995 | Sylvia and Charles Viertel Foundation Equipment Grant: Confocal Laser Scanning Microscope (\$99,900) |
| 1995 | Clive and Vera Ramaciotti Foundation Equipment Grant: Confocal Laser Scanning Microscope (\$20,000) |
| 1995 | National Health and Medical Research Council Equipment Grant: Confocal Laser Scanning Microscope (\$50,000) |
| 1995 - 1997 | Stem Cell Sciences Stem Cell Biology and Vector Development (\$150,000/year) |
| 1995 - 1998 | IntegraMed America Research in reproduction and development (\$220,000/year) |
| 1996 - 1998 | National Health and Medical Research Council Cellular and Molecular Mechanisms Governing Stem Cell Self Renewal (\$55,368/year) |
| 1997 | Australian Research Council Infrastructure (Equipment & Facilities) Program - Animal Gene Storage Resource Centre of Australia (\$100,000) |

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| 1997 | Monash Research Fund Characterisation of follicular recruitment and ovulation in fresh and frozen ovarian grafts (\$50,000) |
| 1998/1999 - 2000/2001 | Dairy Research & Development Corporation/Meat & Livestock Aust Production of elite breeding stock by nuclear transfer and embryo multiplication. (\$1,103,028) |
| 1998 - 2003 | Monash IVF Pty Ltd Research in studies on human infertility (\$500,000 per year) |
| 1999 | Strategic Monash University Research Fund Centre for Animal Clonal Genomics for Biomedicine (\$165,000) |
| 1999 | Monash Research Fund Nuclear cloning of terminally differentiated fetal and adult somatic cells of mice (\$35,000) |
| 1999 | Dairy Research and Development Corporation Integrating cloning and transgenic technologies to produce transgenic cows with improved protein production and non-transgenic cows from the same genetics (\$76,000) |
| Sept 99 – Sept 02 | National Institutes of Health (USA) Cryopreservation of Ejaculated & Epididymal Sperm for Mouse Mutants and Analyses of the Safety of Such Methodology (US\$1,313,819) |
| Oct 00–Sept 01 (\$535K) | Embryonic Stem Cell International Inc. |
| Oct 01-Sept 03 (\$920K p.a) | Development of human embryonic stem cells and their derivatives (for integrated international research program) |
| 2001.2002 | Special Monash University Research Fund Transdifferentiation of adult stem cells (\$110K p.a) |
| 2001/02 - 2007/08 | CRC for Innovative Dairy Products (~\$17 million – Commonwealth funding) |
| 2001-2003 | National Health and Medical Research Council Isolation and function of human oogenesis genes regulating meiosis, recruitment, growth and maturation of the oocyte (\$322,268) |
| 2002.2007 | AusIndustry (Major National Research Facility) National Centre for Advanced Cell Engineering (\$12.4 million) |

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| 2002.2004 | Australian Research Council Developing technologies that support the genetic modification of rats. (\$364,424) |
| 2002.2004 | Australian Research Council The production of respiratory cell lineages from human embryonic stem cells: towards a cell replacement therapy for the treatment of respiratory specific deficits. (\$370,000) |
| 2002.2004 | Australian Research Council Identification of nuclear reprogramming factors in oocyte cytoplasm (\$67,635) |
| 2003-2008 | National Institutes of Health (USA) Molecular markers of oocyte developmental competence (US\$1.54 million) |

PRESENT RESEARCH INTERESTS, STAFF, STUDENTS AND COLLABORATORS

SUPERVISION OF RESEARCH PROJECTS

1. “Cryobiological and biochemical studies of human semen”,
M. Mahadevan, awarded Ph.D., 1982.
2. “Assessment of mammalian embryo viability”,
L. Mohr, awarded Ph.D., 1983.
3. “Antibodies to the zona pellucida”,
Dr. P.L. Nayudu, Research Officer (1979-1981). NH & MRC Grant.
4. “Biochemical studies on cervical mucus”,
P. Lutjen, Ph.D. student. (1982-1985). Awarded Ph.D. 1986 (Uni.Qld.)
5. “Embryo development and differentiation; an ultrastructural and biochemical study”,
M. Thavarajah, Ph.D. student. (1982-1984).
6. Studies on human idiopathic and male infertility,
Dr. M. Mahadevan, Research Fellow. (1981-1983). NH & MRC Grant.
7. Studies on the totipotency of single blastomeres during embryo development,
Dr. M. Camus, Research Fellow. (1982).
8. Synchronization of human ovulation and embryo transfer.
Dr. A. Conti, Research Fellow. (1982).

9. Studies on the cryobiology of mammalian embryos.
Dr. L. Mohr, Research Fellow. (1982-1984). NH & MRC Grant
10. Human sperm hyaluronidase,
A. Stojanoff, awarded M.Sc. 1985.
11. Ovarian transplantation.
Dr. L. Gianaroli, Research Fellow. (1982-1983).
12. Human in vitro fertilization and implantation,
Dr. P. Rogers, Research Fellow. (1983-1984).
13. Micromanipulation of mammalian fertilization and embryo development.
F. Rossen, Masters Qualifying Student (1983).
14. Organisation of embryonic cell division and inner cell mass formation.
R. Campbell, Honours Student. (1984). Awarded Honours First Class.
15. Fertilization in vitro in the clinically infertile male.
C. Yates, Ph.D. (1984-1987). Jointly supervised with D. de Kretser.
16. The micromanipulation and preservation of mammalian embryos.
D. Jessup, Ph.D. Student. (1984).
17. Mammalian embryo biopsy, development and differentiation.
R. Campbell, Ph.D. Student. (1985).
18. Microsurgical fusion of sperm and eggs.
Dr. A. Laws, Research Fellow (1985-1986). NH & MRC Grant.
19. Molecular genetics of Thalassaemia in embryo development and development of embryo biopsy techniques.
Dr. L. Wilton, Research Fellow (1985-1989). NH & MRC Grant.
Mrs M. Bakker, Research Assistant (1987-1989)
Mr. G. Somers, B. Med. Sci. Student (1987-1988). Awarded Honours First Class.
20. Characterization and correction of cervical factor infertility.
P.J. Lutjen, Research Fellow (1985-1987). NH & MRC Grant.
M. de Witt, Research Assistant (1984-1988).
J. Hoy, Research Assistant (1985-1987).
21. Human egg and embryo cryopreservation.
A. Peura, Research Assistant. (1985-1987). NH & MRC Grant.
L. Freemann, Senior Technical Officer. (1984-1984).
C. Kirby, Technical Officer. (1985-1988).
Mrs. M. Potenza, Research Assistant (1987-1989)

22. DNA injection into mouse eggs for production of transgenic offspring.
J. Lutjen, Senior Technical Officer. (1984-1986).
23. Molecular teratology in mammalian preimplantation embryo development and birth defects. I. Kola, Research Fellow. (1985).
24. Development of mammalian embryo culture systems and media.
C.M. Caro, Senior Technical Officer. (1983-1986).
“The Development of Preimplantation Embryos in Co-culture with Feeder Cells.”
D. Sakkas, Ph.D. Student (1986-1989)
Awarded Ph.D., 1990.
25. Studies on improving sperm fertilizing capacity and capacitation.
C. Holden, Ph.D. Student (1987-1992)
26. The physiology of ovulation, superovulation, fertilization, embryo development, embryo cryopreservation and embryo transfer in the sheep and goat.
Dr. A.W. Cameron, Research Fellow (1986)
Ms. C. Battye, Ph.D. Student (1987)
Ms. R.Li, Ph.D. Student (1988)
Mr. P. Batt, Research Assistant (1987)
Dr. R. Pashen, Senior Research Fellow (1988).
27. Factors controlling mammalian oocyte maturation.
Dr. J. Osborn. Senior Research Fellow (1988)
Mr. J. Kumar, NH & MRC Ph.D. Student (1987-1990)
Ms M. Turner, Research Assistant (1990)
28. Development of ultrarapid cryopreservation techniques - NH&MRC
Dr. J. Shaw, Research Officer (1987)
Mr. R. Campbell, Research Assistant (1989-1990)
Mr. A. Oranratnachai, M. Reprod. Sci. student (1991-1992)
29. Fertilization by microinjection of single sperm under the zona pellucida - NH & MRC Grant.
Dr. J. Mann, Research Fellow (1986-1988)
Dr. P. Jellinek, Research Fellow (1988)
Ms. O. Lacham, Research Assistant (1987)
Ms. A. Peura, Research Assistant (1987-1989)
Mr. D. Sakkas, Research Officer (1989-1990)
30. Dielectrophoresis and cell fusion in fertilization and embryogenesis - NH & MRC Grant.
Ms. L. Barnaby (1988-1990)

31. The coculture and metabolism of mammalian embryos in vitro with cells of the reproductive tract NH & MRC Grant.
Dr. D. Gardner, Research Fellow (1989-1991)
32. Developmental capacity of bisected embryos.
Dr. W. Zhouji, Visiting Scientist (1988-1989)
33. Transplantation of embryonic haemopoietic stem cells.
Mr. J. Tomlinson, B.Med.Sci. Student (1988-1989). Awarded Honours First Class.
34. Ethics of the new reproductive technologies.
Dr. K. Dawson (1990)
35. Investigation of embryo viability, differentiation and development by embryo biopsy - NH & MRC Grant.
Dr. M. Overall, Research Officer (1991-1992)
Ms. A. Peura, Technical Officer (1991-1992)
36. Molecular aspects of sperm cell maturation and fertilizing capacity.
Dr. K. Loveland, Research Officer (1990)
37. Cell fusion and sperm chromosomal karyotyping.
Dr. L. Johannson, Visiting Scientist (1989-1990)
Dr. Y. Li, W.H.O. Trainee (1990-1991)
38. Sexing of embryos using sex specific DNA probes
Ms. Nicole Lacy, B.Med.Sci. Student (1990-1991)
39. The fertilizing capacity of epididymal and testicular spermatozoa using microinjection techniques.
Ms. O. Lacham, Ph.D. Student (1990)
Ms. M. Valiotis, M. Reprod. Sci. student (1993)
40. The development of embryonic stem cells for use in animal production.
Dr. A.W.N. Cameron, Senior Research Fellow (1990) Ms. R. Li, Research Assistant (1991)
Miss L. McKarney, Ph.D. Student (1991-1992)
Dr. M. Overall, Research Officer (1991-1992)
41. Embryo production and nuclear transfer in bovine oocytes.
Mr. I. Lewis, VAB, Senior Research Fellow (1992 - 1997)
Dr. A. Dowsing, Research Fellow (1992 - 1995)
Ms. L. Maclellan, Research Assistant (1992)
Mr. B. Tatham, Ph.D. Student (1992 - 1995)
Mr. K. Gilliam, Hons. Student (1993), Research Assistant (1994),
PhD. Student (1995)

42. Recovery of immature human oocytes and their maturation in vitro for treatment of Polycystic Ovarian Syndrome.
Prof. C. Wood
Dr. G. Almahbobi, Research Fellow (1993 - 1997)
Ms. A. Kausche, Research Assistant (1992)
Miss C. Anderiesz, Hons. Student (1993)
43. Fertilization by micromanipulation and cryopreservation of mammalian embryos.
Dr. J. Tarin, Visiting Research Fellow (1991-1992)
44. Bovine embryo cytogenetics and ultrastructure.
Dr. R. Dorland, Visiting Research Fellow (1993)
45. Oct 4 expression in mammalian oocytes and embryos and influence of reproductive tract secretions on embryo metabolism.
Dr. F. Gandolfi, Visiting Research Fellow (1993)
46. Fluorescent in situ hybridization for chromosome identification in mammalian gametes and embryos.
Dr. L. Wilton, Senior Research Fellow (1992 - 1995)
Dr. T.L. Han, Research Fellow (1993 - 1996)
47. Recovery and fertilization with human testicular sperm.
Dr. R. McLachlan (1993 - 1997)
Prof. D. de Kretser (1993 - 1997)
Dr. C. Holden (1993)
Dr. O. Lacham-Kaplan, Research Assistant (1993 - 1997)
48. Recovery and fertilization of oocytes from prepuberal calves.
Mr. I. Lewis, Part-time, Ph.D. Student (1993 - 1996)
49. Immature Oocyte Collection and In Vitro Maturation in the Human
Dr. F. Barnes, Research Fellow (1993-94)
Dr. A. Szell, Research Fellow (1994 - 1995)
Ms. K. May , Research Assistant (1993)
Miss A. Kausche, Research Assistant (1993 - 1999)
Miss C. Anderiesz, PhD. Student (1994 - 1999)
Dr. G. Jones, Research Fellow (1996 - 1999)
50. Growth and development of human blastocysts
Dr. G. Jones (1996 - 1997)
Dr. D.K. Gardner (1996 - 1998)
Miss A. Kausche (1996 - 1997)

51. Nuclear transfer and embryo recycling
Dr. T. Peura (1996 - 1998)
Dr. M. Jones (1996 - 1997)
Mr. M. Lane (1994 - 1998)
Mr. I. Lewis (1992 - 1999)
Mr. D. Pushett (1994 - 1999)
Mr. S. Wild (1996 - 1997)
Miss M. Diamente (1996 - 1999)
Miss T. Gougoulidis, PhD Student (1995 - 1998)
Mr. K. Giliam, PhD Student (1995 - 1997)
52. Androgen receptor genetic defects in male infertility
Dr. A Dowsing (1996 - 1998)
Dr. E.L. Yong (1996 - 1997)
Dr. R. McLachlan (1996 - 1999)
Prof. D. de Kretser (1996 - 1999)
Miss B. McGregor (1996)
Dr. D. Cram (1999 -)
Ms. B. Song (1999 -)
53. Stem cell biology and pig transgenesis
Dr. P. Mountford (1995 - 1999)
Dr. L. Williams (1996 - 1997)
Dr. A. French (1996 - 1999)
Dr. A. Michalska (1995 - 1998)
54. Bovine somatic cell cloning and transgenesis
Dr. O. Lacham-Kaplan (1998 - 1999)
Dr. A. French (1999 -)
Dr. R. Daniels (1999 -)
Dr. G. Vajta (1999 -)
Mr. I. Lewis (1998 -)
Mr. D. Pushett (1999 - 2000)
Ms. V. Hall (1998 -)
Ms. A. Vajta (2000 -)
Ms. D. Lyrawati, Ph.D. Student (1999 -)
55. Primate reproductive biology and embryology
Dr. E. Hayes (1999 -..)
56. Rodent cloning
Dr. O. Lacham-Kaplan (1998 -)
Dr. E. Hayes (1998 - 2000)
Dr. J. Morrison (1999 -)
Ms. S. Galea (1998 -)
Mr. N. Borg, Ph.D. Student (2000 -)

57. Cryopreservation of mouse sperm
 Dr. J. Shaw (1999 -)
 Dr. E. Hayes (1999 -)
 Dr. O. Lacham-Kaplan (1999 -)
 Dr. T. Tecirlioglu (2000 -)
 Dr. L.G. Partida (2000 -)
 Mr. M. Pangestu, Ph.D. Student (1999 -)
58. Human embryology and genetics
 Professor M. Monk (1999 -)
 Dr. D. Cram (1998 -)
 Dr. G. Jones (1998 -)
 Dr. T. Goto (2000 - 2001)
 Mr. B. Chu (1999 -)
 Ms. B. Song (1999 -)
 Mr. G. Thouas (1999 -)
 Ms. F. Figueiredo (2000 - 2001)
 Ms. M. Katz (1999 -)
59. Ovarian tissue cryopreservation and transplantation
 Dr. J. Shaw (1998 -)
 Dr. M. Wolvekamp (1999 -)
 Ms. M. Cleary, Ph.D. Student (2000 -)
60. Human multipotential stem cells (EC/ES cells)
 Assoc. Professor M. Pera (1997 -)
 Dr. S. Houssami (2000 -)
 Ms. D. Herszfeld (1997 -)
 Ms. J. Johnson (1999 - 2001)
 Ms. M. Munsie, Ph.D. Student (1997 - 2001)
 Ms. Carmel O'Brien, Ph.D. Student (1997 - 2001)
 Ms. J. Andrade, Ph.D. Student (1998 -)

Undergraduate Teaching

- Occasional lectures to undergraduate students by invitation of University Departments, 1980
- Ovulation, Fertilization, embryo development, implantation and early pregnancy, 4th year medical students, 1978-1984.
- The new reproductive technologies and biomedical ethics Human Sexuality Course for 3rd/4th year medical students, 1984 - 2000.
- Artificial breeding techniques and animal biotechnologies 3rd year Veterinary Science students, Melbourne University, 1985-1989.
- Fertilization and embryo development, and the new reproductive technologies 2nd year Science students option, Department of Anatomy, 1991

- Reproductive technology - 2nd year option for medical undergraduates, Faculty of Medicine, Monash University, 1992-1995.
- Subject Co-ordinator - Graduate Diploma and Masters of Reproductive Science, 1996 -
- Degree Course Co-ordinator and Subject Co-ordinator - Masters Clinical Embryology, 1999-2004

CONSULTATIONS & GUEST LECTURES :

1. Scientific Consultant & Lecturer for the Family Planning Association of Victoria, Australia. 1977-1979.
2. Chairman of Symposium "Implantation & Pregnancy" Sixth International Congress of Endocrinology, 1980.
3. Plenary Lecturer for Australian Obstetrics & Gynaecology Res. Society Annual Conference 1980. "In Vitro Fertilization & Embryo Transfer".
4. Offered a short-term consultancy for World Bank and EMBRAPA in animal breeding (South America) 1980-81.
5. Invited Participant of UNESCO International Workshop of Cell Freezing, London, U.K. 1980.
6. Permanent Advisory Committee Member of the International Axel Munthe Award in Reproduction, 1980-
7. Invited speaker at 3rd World Congress in Human Reproduction West Berlin, March, 1981.
8. Invited speaker IVth Reinier de Graaf Symposium, Nihmegen, Holland, 1981.
9. Invited speaker 1st World Congress on Human In Vitro Fertilization, Cambridge, U.K. 1981.
10. Invited speaker Asia and Oceanic Congress of Obstetrics & Gynaecology, Melbourne, 1981.
11. Scientific and Programme Committee Member of Australian Fertility Society, 1981-1985
12. Invited speaker Symposium on Human Bioethics of In Vitro Fertilization, Melbourne. 1982.
13. Invited speaker Endocrine Society of Australia Summer Meeting, Leura, 1982.
14. Invited speaker Organon International Symposium on In Vitro Fertilization : Biological Basic & Clinical Application, Manau, West Germany, 1982.
15. Invited speaker Serono International Symposium on Advances in Human In Vitro Fertilization, Carmel, California, U.S.A. 1982.
16. Invited Speaker Canadian Medical Research Council, Symposium on Human In Vitro Fertilization, London, Ontario, Canada, 1982.
17. Invited speaker International Symposium on Human In Vitro Fertilization, Basel, Switzerland, 1982.
18. Invited speaker South American Fertility Society -Recent Advances in Male Infertility, Santiago, Chile, 1982.
19. Participant & Nominee, Axel Munthe Award in Reproduction, Capri, 1982.
20. Invited speaker International Embryo Transfer Society - Comparative embryo transfer in man and animals, Fort Collins, USA, 1983.
21. Invited speaker International Union of Physiological Sciences, Sydney, 1983.
22. Invited speaker Recent Progress in Human In Vitro Fertilization Congress, Vienna, 1983.
23. Invited speaker 23rd British Congress of Obstetrics & Gynaecology, Birmingham, 1983.
24. Chairman of Symposium 'Contraception : Options, Trends, Complications' Family Planning Association of Victoria, 1983.

25. Lecturer for Recent Advances in Clinical Physiology course, Monash University, Alfred Hospital, 1983.
26. Invited speaker University of Sydney Centennial Celebrations, 1983.
27. Invited speaker Fertility Society of Australia, 1983.
28. Invited speaker 3rd World Congress of Human In Vitro Fertilization, Helsinki, 1984.
29. Invited speaker Pan American conference on Fertility and Sterility, Hawaii, 1984.
30. Invited speaker 'Human In Vitro Fertilization : Present Problems and Prospects. Cargese, Corse, France, 1984.
31. Delivered the Vth Renier de Graaf Lecture Nijmegen, Holland, 1984.
32. Visiting Research Professorship, University of Cape Town, South Africa, April-May, 1984.
33. Invited speaker South African Congress of Obstetrics and Gynaecology, Port Elizabeth, 1984.
34. Invited speaker Harden Conference, Molecular and cellular aspects in reproduction, Wye College, Kent, 1984.
35. Chairmans Award International Foundation for Studies in Reproduction for Excellence in Scientific Contributions to the Study of Fertility, 1984.
36. Socio de Honor, Sociedad Espanolade Fertilidad, 1984.
37. Invited speaker VII ESCO, Monte Carlo, 1984.
38. Invited speaker International Conference on Human IVF, Montreal, Canada, 1984.
39. 2nd Hans Lindner Memorial Lecturer, Weitzman Institute, Rehovot, Israel, 1984.
40. 1985 Australia Japan Foundation Annual Lecture, presented in Tokyo April 1985
41. Invited Speaker Australian Cell Biology Society, February 1985
42. Course Participant, Molecular Embryology, Cold Spring Harbor Laboratories, N.Y. 1985. Received Cold Spring Harbor Laboratory Scholarship.
43. Invited Speaker and Member of Programme Committee World Congress of Human Reproduction, Athens, September, 1985
44. Delivered the 1985 Jan Palfijn Lecture, Antwerp, August, 1985
45. Awarded a Nomination for the Axel Munthe Prize in Reproduction, Capri, September 1985
46. Invited Speaker and Programme Co-Chairman, Fourth World Congress on In Vitro Fertilization, Melbourne, November, 1985
47. Programme Co-Chairman, World Congress of Human Reproduction, Tokyo, Japan.
48. Invited Speaker, Pan American Conference of Fertility Societies, Acapulco, Mexico, February, 1986.
49. Invited Speaker and Course Director, American Fertility Society, Toronto, Canada, September, 1986.
50. Invited Speaker, IVth Nordic Conference on In Vitro Fertilization and Embryo Transfer, Marstrand, Sweden September, 1986.
51. Invited Speaker, XII World Congress on Fertility and Sterility, Singapore, October, 1986.
52. Invited Participant in the Fifteenth International Conference on the Unity of Science, Washington D.C. November, 1986.
53. Invited Speaker, International Society of Law and Medicine, Sydney, August, 1986.
54. Invited Speaker ANZAAS, Palmerston North, N.Z., January, 1987.
55. Invited Speaker 8th Asia and Oceania Congress of Endocrinology, Bangkok, November, 1986.
56. Invited Speaker, XIII International Congress of Clinical Chemistry, June, 1987.
57. Invited Speaker. International Congress of In Vitro Fertilization, Norfolk, U.S.A., April 1987

58. Invited Commentator, Australian Universities Law Schools Association, Melbourne, August, 1987.
59. Scientific Program Co-chairman and Invited Speaker, VI International Congress of Human Reproduction, Tokyo, October 1987.
60. Invited Speaker ASRB Symposium at Aust. Soc. Exp. Biol. Bicentennial Meeting, Canberra February, 1988.
61. Invited Speaker 31st Pan American Conference on Fertility & Sterility, Hawaii, January, 1988.
62. Invited Speaker "Reflections on the 80's" Conference in Obstetrics & Gynaecology, Edmonton, Canada, February, 1988.
63. Invited Speaker Australian Bi-centennial Medical Congress - Cairns August, 1988
64. Invited Speaker, XII Federative International Congress of Anatomy, Rio de Janeiro, August, 1989.
65. Invited Commentator, Australian Universities Law Schools Association, Melbourne, August, 1988
66. Invited Speaker, Organon International Symposium. What is established in IVF therapy. Ten years of experience. Murnau, Germany, June 1988
67. Invited Speaker, In Vitro Fertilization and embryo transfer sowie intratubarer gametentransfer in der Bundesrepublik Deutschland, Keil, June, 1988
68. Invited Speaker, International Symposium. Recent Advances in Infertility and In Vitro Fertilization (IVF), Thessaloniki, Greece, June, 1988.
69. Invited to present Organon International Lecture on 25th Anniversary of Humagon, Amsterdam, Holland, November 1988.
70. Invited Speaker at International Symposium on Blastocyst Implantation, Newport Beach, Ca., December 11-14, 1988.
71. Invited Speaker at Serono Symposia, International Symposium on Gamete Physiology, Newport Beach, Ca., November 6-10, 1988.
72. Invited Speaker at VI World Congress In Vitro Fertilization and Alternate Assisted Reproduction, Jerusalem, Israel, April 2-7, 1989.
73. Invited Speaker at American Society of Andrology, New Orleans, April 14-16, 1989.
74. Invited Speaker ESHRE Conference, June 1989.
75. Invited Speaker at World Congress on Gynecological Endoscopy, Taormina, Italy, June 8-10, 1989.
76. Invited Speaker at the International Society of Developmental Biologists, Utrecht, The Netherlands, August 20-26, 1989.
77. Invited Speaker at XIII Federative International Congress of Anatomy, Rio de Janeiro, Brazil, August 6-11, 1989.
78. Invited Speaker at Symposium Animal Health and Production in the 21st Century, Sydney, Australia, November 9-10, 1989.
79. Invited Speaker at XVI Symposium Internacional Fertilidad 89, Barcelona, Spain, November 1-2, 1989.
80. Invited Speaker at 12th Asia Oceanic Congress of Obstetrics and Gynaecology, Taipei, Taiwan, December 3-8, 1989.
81. Australian Representative and Speaker in DITAC Symposium - Australia, United Kingdom and New Zealand: Collaboration in Biological Sciences, Adelaide, March 30-April 1, 1990
82. Invited Speaker 38th Annual Pacific Coast Fertility Society, Scottsdale, Arizona, U.S.A., April 25-29, 1990
83. Invited Participant in Pioneers of IVF Meeting, New York, May 1, 1990

84. Invited Speaker, 6th Advanced Course, RACOG, Adelaide, May 14-18, 1990.
85. Member of Scientific Organising Committee and Invited Speaker, VII World Congress of Human Reproduction, Helsinki, Finland, June 26-July 2, 1990.
86. Chairman, Program Committee of the VIII World Congress of Human Reproduction, Bali, Indonesia, February, 1993.
87. Invited Speaker, Second Course Human Pre-implantation Embryo, School of Reproductive Biology, "Alberto Monroy," Palermo, Italy, October 1-5, 1990.
88. Congress Chairman, First International Congress Micromanipulation in Human reproduction, Rome, Italy, December 14-15, 1990.
89. Invited Speaker, National Conference on Biotechnology in Agriculture, Animal Research Institute, Attwood, Victoria, April, 10-12, 1991.
90. Invited Speaker, Eric K. Fernstrom Symposium, "Local regulation of Ovarian Function," Lund, Sweden, June 11-15, 1991.
91. Invited Speaker and Programme Committee Member, 7th World Congress on In Vitro Fertilization and Assisted Procreation, Paris, June 30 - July 4, 1991.
92. Invited Speaker, XIII World Congress of Gynaecology & Obstetrics (FIGO), Singapore, September 15-20, 1991.
93. Invited Speaker, Australian Embryo Transfer Society, Adelaide, Australia, May 14, 1992.
94. International Advisory Committee member, International Congress of Gynaecologic Endoscopy, Seoul, Korea, May 21-24, 1992.
95. Invited Speaker, In Vitro Fertilization and Embryo Transfer in Primates, Oregon, USA, May 28-31, 1992.
96. Invited Speaker, The Production of Ruminant Embryos In Vitro, Pelnary Lecture, 12th International Congress on Animal Reproduction, The Hague, Netherlands 23-27 August, 1992.
97. Invited Speaker, New Developments for the Treatment of Severe Male Factor Infertility, Simposio Internazionale I Concepimenti Assistiti Alle Soglie del 2000, Macatea, Italy 24-26 September, 1992.
98. Invited Speaker, New Developments of Medically Assisted Conception, Universitaire de Genève, Switzerland Post-graduate Course in Reproductive Medicine and Biology, 5 October, 1992.
99. Invited Speaker, State of the Art and Progress in Medically Assisted Conception, New York Society of Reproductive Medicine, New York, 28 October, 1992.
100. Invited Speaker, Advances in Assisted Conception, Grand Rounds, Winthrop University Hospital, New York, 30 October, 1992.
101. Invited Speaker, Recent Developments in Human Egg and Embryo Cryopreservation Technology, 25th Annual Postgraduate Program, American Fertility Society, New Orleans, Louisiana, 31 October, 1992.
102. Invited Speaker and Co-chairman, Technical Methods of Achieving Microfertilization and Embryo Viability, Advanced Assisted Reproductive Techniques for the Infertile Male, Serono Symposium, Adelaide 30 November - 1 December, 1992.
103. Scientific Program - Chairman and Invited Speaker, VIIIth World Congress on Human Reproduction joint IVth World Conference on Fallopian Tube in Health and Disease, Bali-Indonesia 4 - 9 April, 1993.
104. Invited Speaker, Developments in Reproductive Biology and Implications for Human Reproductive Technology. U.S. Academy of Science, Symposium on Embryo and Fetal Research, Newport Beach, Ca., USA, 20-22 June, 1993.

105. Invited Speaker, Up-date on the Management of the Subfertile Couple Workshop, Victoria Falls, Zimbabwe, 23 August - 4 September, 1993.
106. Invited Speaker, Future Directions in Assisted Reproductive Technology Workshop, Korea, 9-11 September, 1993
107. Invited Speaker, Microfertilization Techniques, World Congress of IVF, Kyoto, Japan, 12-15 September, 1993.
108. Invited Speaker, The International Conference on Infertility for the Patient and the Medical Team, Virginia, USA, 1-3 October, 1993.
109. Invited Speaker, The British Fertility Society Meeting, Glasgow, UK, 10-13 May, 1994.
110. Invited Speaker, International Dairy Congress, Melbourne, 18-22 September, 1994.
111. Invited Speaker, International Symposium on Intracytoplasmic Sperm Injection, The Kooralbyn Beaudesert, QLD, 2-3 October, 1994.
112. Invited Speaker, The Fertility Society of Australia, Annual Scientific Meeting, Brisbane, 4-7 October, 1994.
113. Invited Speaker, Second International Symposium, Seoul, Korea, 29-30 April, 1994.
114. Invited Speaker, 1994 Annual Meeting of the American Fertility Society, San Antonio, Texas, 9 November, 1994.
115. Invited Speaker, Prof. Carl Wood's Festschrift, Melbourne, November 1994.
116. Invited Speaker, Turner's Syndrome Symposium, Goteborg, Sweden, May 1995.
117. Invited Speaker, UCLA Eighth Annual In Vitro Fertilization and Embryo Transfer, Santa Barbara, USA, July, 1995.
118. Invited Speaker, Plenary lecture on "The role of LH in follicular growth and oocyte developmental competence" at Benjamin Henry Speares Lecture, Second Singapore Congress & 3rd Cina-Singapore Seminar of Obstetrics & Gynaecology, October 1995.
119. Invited Speaker, Physiology Towards 2000 - Scientific conference and dinner in honour of Mollie Holman, Roger Short and Geoffrey Thorburn, Cape Schanck, October 1995.
120. Invited speaker at the Pacific Coast Fertility Society 44th Annual Meeting, Palm Springs, California, USA, 17-21 April 1996. "Current cryopreservation techniques" and "Retrieval and maturation of immature oocytes".
121. Invited speaker at Assisted Reproductive Techniques, Singapore, May 1996.
122. Invited speaker, 10th International Congress of Endocrinology, San Francisco, USA, 12-15 June 1996 "Oocyte function in vitro and under conditions of superovulation of IVF".
123. Invited speaker at Royal Women's Hospital 140th Birthday Conference, Melbourne, August 1996, "Impact of legislation on research".
124. Invited speaker at Development of the Human Egg Symposium, Leeds, UK, September 1996 "Maturation of oocytes in vitro", and Closing Comments at end of Symposium.
125. Program Chair and invited speaker at the American Society for Reproductive Biology Meeting, Boston, November 1996 "Fertilization and Development", and summary discussion and closing remarks.
126. Invited speaker at Monash University Organ Preservation and Replacement Round Table Workshop, Clayton, November 1996, "Cryopreservation and transplantation of cells and tissues of the reproductive system".
127. Invited speaker at Expert Meeting on Infertility, Montego Bay, Jamaica, November 1996 "In vitro maturation of oocytes".
128. Invited speaker at Evolution in Ovulation Induction and ART: New Treatment Modalities for the Next Millennium symposium, "An Embryologist's view on ovulation induction", Orlando, Florida, 7-8 March, 1997.

129. Invited Plenary Speaker, Xth World Congress of Assisted Reproduction, "Growth and selection of blastocysts for embryo transfer", Vancouver, Canada, 25-28th May, 1997.
130. Invited speaker to give Key Note Lecture on "Oocyte Maturation" at the 4th Bourn Hall Meeting on Reproductive Medicine, Cambridge, UK, 19-20th June, 1997.
131. Invited speaker and Session Chair at XV FIGO World Congress, "Cryopreservation of gametes and embryos", Copenhagen, Denmark, 3-8th August, 1997.
132. Invited speaker at Update in Reproductive Medicine: ART, Preimplantation Diagnosis, Oral Contraception and HRT for ASRM and ISRM, "The future of reproductive technology, retrieval and maturation of immature oocytes", Tel-Aviv, Israel, 11-14th September, 1997.
133. Invited speaker at 2nd International Symposium on Preimplantation Genetics, "Oocyte maturation in vitro", Chicago, USA, September 18-21st, 1997.
134. Invited speaker at IX National Haemophilia Conference, "Embryo sex diagnosis for sex-linked genetic diseases", Melbourne, 17-18th October, 1997.
135. Invited speaker at Progress of Profertility Treatment Symposium, "An embryologist's view on ovulation induction", Singapore, 15th November, 1997.
136. Invited speaker at Genes and Environment in Human Reproductive Disorders International Symposium, "Potential benefits of cell cloning for human medicine", Adelaide, 30th Nov - 1st Dec. 1997.
137. Invited speaker and Scientific Committee Chair, International Symposium on ART: State of the Art, Maui, Hawaii,, 3-7th December, 1997.
138. Invited speaker at Treatment of Infertility: The New Frontiers, Boca Raton, Florida, 22-24th January, 1998.
139. Invited speaker - 3rd DNA Science Workshop, Melbourne, January 1998.
140. Invited speaker-Human Genome Research - Science and Society Symposium, Sydney, April 1998.
141. Conference Organiser and speaker at The Cloning Symposium: Reprogramming cell fate - transgenesis and cloning, Melbourne, April 1998.
142. Invited speaker - 1st Magisterial Tribune in Human Reproduction: Pioneers of Ideas and Ideas of Pioneers, Buenos Aires, Argentina, April 1998.
143. Invited to give the Occasional Address at the Monash University Faculty of Medicine Graduation Ceremony, May 1998.
144. Invited speaker ART 2000 - New Horizon International Conference, Munich, Germany, January 1999.
145. Invited speaker for The CRC for Discovery of Genes for Common Human Diseases Symposium on Embryonic Stem Cells, Cloning and Transplantation, Melbourne, Feb 1999.
146. International Scientific Committee member and invited speaker at 10th World Congress on Human Reproduction, Bahia, Brazil May 1999.
147. Invited speaker and session co-chair at the 11th World Congress on In Vitro Fertilization and Human Reproductive Genetics, Sydney May 1999.
148. Invited speaker at Therapeutic Cloning for Tissue Repair, Australian Academy of Science, Canberra, September, 1999.
149. Australian Society of Reproductive Biology, September, 1999, Melbourne
150. 1st World Congress in Contraversies in Ob. Gyn. and Infertility. October, 1999, Prague, Czech Republic
151. Bertarelli Foundation - Global Consensus Conference on improving the treatment of infertility - avoiding high order multiple gestation. November 1999, Maryland USA.
152. 2nd Workshop on Assisted Reproductive Technologies, November 1999, Hong Kong

153. Session Chair at the 26th Annual Conference of the International Embryo Transfer Society, January 2000, Maastricht, The Netherlands.
154. Convenor and Invited Speaker - Sero Symposium on Embryonic Stem Cells and Embryology, Canberra, April 2000.
155. Plenary Speaker, Fertility Society of Australia, Canberra, April 2000.
156. Special Plenary Speaker "Embryonic Stem Cells", The Royal Australasian College of Surgeons Annual Conference, Melbourne, May 2000.
157. Invited Speaker - Sero Symposium on Preimplantation Genetic Diagnosis, Bologna, Italy, June 2000.
158. Invited Speaker - ESHRE Pre-Congress Postgraduate Course, Bologna, Italy, June 2000.
159. Invited Lecturer - Hubrecht Laboratory, Holland - Biology of human ES cells, June 2000.
160. Invited Lecturer - "Transgenesis and Research Seminar", University of NSW and NSW Zoological Parks Board - Human ES cells and New reproductive techniques in animal conservation. Sydney, June 2000.
161. Invited Speaker – Third Menzies Scholars Symposium, Melbourne, October 2000
162. Invited Speaker – American Society for Reproductive Medicine 56th Annual Meeting, San Diego, October 2000
163. Invited Speaker – Sero Symposia International Conference on Robert G Edwards at 75, Italy, October, 2000
164. Invited Speaker – Keystone Symposia on Molecular & Cellular Biology, Colorado, February 2001.
165. Invited Speaker to the Federal Ministers, Canberra, November, 2000
166. Invited Speaker - Australian Davos Connection “Biotechnology Revolution, Investment, Skills, Ethics & Regulator”, Melbourne, April 2001.
167. Invited Speaker - Cabrini Hospital “Cloning and Medicine”, Melbourne, April, 2001.
168. Invited Speaker - University of Melbourne “Symposium on Human Cloning”, Melbourne, May 2001.
169. Invited Speaker - Federation Festival (Alfred Deakin Lectures) “Blueprint of a Future Australia”, May, 2001.
170. Invited Speaker – AMA Victoria’s Big Debate “Loving Life to Death”, Melbourne, May 2001.
171. Invited Speaker - Caroline Chisholm Centre “Human Embryo Research, Manipulation & Ethics”, Melbourne, May 2001.
172. Invited Speaker - Wesley College “Cloning – Science & Ethical Issues”, Melbourne, May 2001.
173. Invited Speaker - University of NSW & IRD “New Medicine & Technology of Stem Cell”, Sydney & Melbourne, May 2001.
174. Invited Speaker – Australian Red Cross Blood Service “Making the Complicated Simple”, Melbourne, June 2001.
175. Invited Speaker – Havemeyer Foundation Symposium “From Elephants to Aids”, Queensland, June 2001.
176. Invited Speaker – University of Melbourne “Toward Therapeutic Uses of Human Embryonic Stem Cells”, Melbourne, July 2001.
177. Invited Speaker – Annual Postgraduate Seminar for General Practitioners, Royal Perth Hospital, Perth, August 2001.
178. Committee Member of AAMRII, Annual General Meeting, Canberra, August 2001.
179. Invited Speaker – State of the ART: A Think Tank Meeting for Clinicians and Scientists, “The Maturing Oocyte”, Copenhagen, August 2001.

180. Invited Speaker – AETS Conference, “Latest Developments in Cloning Stem Technology”, Bacchus Marsh, August 2001.
181. Invited Speaker – AIMS 2001 “Genetic Research: The Present & the Future”, Melbourne, September 2001.
182. Invited Speaker – Laboratoire de Biologie des Cellules Souches Humaines “Embryonic Stem Cells: The Beginning of a New Era in Medical Science”, Paris, September 2001.
183. Invited Speaker – SISMER Forum “The Strength of Life”, Bologna, September 2001.
184. Invited Speaker – WHO Review of Assisted Reproductive Technology: “Embryo Assessment, Selection and Transfer”, Geneva, September 2001.
185. Invited Speaker – Bulleen & Templestowe Probus Club “Human Embryonic Stem Cells: New Opportunities in Human Medicine”, Melbourne, October 2001.
186. Invited Speaker – Royal ANZ College of Obstetrics & Gynecology “Pushing the Barriers: Where are we and where are we going?”, Melbourne, October 2001.
187. Invited Speaker – 17th World Congress International Federation of Fertility Societies “21st Century Human Embryology”, Melbourne, November 2001.
188. Invited Speaker – PHMIR & MIRD Symposium “Reproductive Genomics”, Melbourne, December 2001.
189. Invited Speaker – Federal and Supreme Court Judges medical Seminar “Current Issues in Health: A Researcher’s Perspective”, Melbourne, January 2002.
190. Invited Speaker – STAV VCE Biology Teacher’s Conference “Preimplantation, Embryo Genetics, Stem Cells and Cloning”, Melbourne, February 2002.
191. Invited Speaker – II International Annual Meeting of the Argentine Society of Sterility & Fertility, “Human Embryonic Stem Cells”, Buenos Aires, Argentina, March 2002.
192. Invited Speaker – 12th World Congress on In-Vitro Fertilization and Molecular Reproduction, “Cloning, Reprogramming the Cells Nucleus. Therapeutic Cloning”, Buenos Aires, Argentina, March 2002.
193. Invited Speaker – Reproductive Sciences Conference, “New Visions in Reproduction”, Sydney, Australia, March 2002.
194. Invited Speaker – Biotechnology 2002, “Stem Cell Sciences” Sydney, Australia, April 2002.
195. Invited Speaker – AusBiotech Ltd, BioIndustry Breakfast Announcement, “Stem Cells Research”, Brisbane, Australia, May 2002.
196. Invited Speaker – The Medico-Legal Society of Victoria, “Stem Cells”, Melbourne, Australia, May 2002.
197. Invited Speaker – Vice Chancellor’s Debate, “Human Embryos used for Stem Cell Research”, Monash University, Melbourne, Australia, May 2002.
198. Invited Speaker – GeneTech Festival, “Stem Cell and Cloning”, Melbourne, Australia, May 2002.
199. Invited Speaker – Young Presidents’ Organisation, “The Human Genome”, Royal Children’s Hospital, Melbourne, Australia May 2002.
200. Invited Speaker – Bio2002, “Stem cell research in the cross hairs”, Toronto, Canada, June 2002.
201. Invited Speaker – American / Australian Association, New York, USA, June 2002.
202. Invited Speaker – International Consumer Support for Infertility (ICSI) Conference, “New genetics and stem cell research: What is can mean for infertility patients”, Vienna, June 2002.
203. Invited Speaker and Co-chair – 18th Annual Meeting of ESHRE, “Embryonic stem cells”, Vienna, June 2002.

204. Invited Speaker – International Symposium: Conservation of Fertility in Health and Disease, “Reproductive technologies in the 21st Century”, Leeds, UK, July 2002.
205. Invited Speaker – Annual Meeting of the Society for Reproduction and Fertility (SRF) – Amoroso Lecture “The scientific promises and puzzles of embryonic stem cell research”, Leeds, UK, July 2002.
206. Invited Speaker – Opening of Monash University Centre in London, “Stem-cell Midas – Embryonic stem cells as a new revolution in regenerative medicine”, London, UK, July 2002.
207. Invited Speaker – The Australian Stem Cell Summit, “The current state of stem cell science”, Melbourne, Australia, July 2002.
208. Invited Speaker – Public Lecture organised by Michael Johnson MP, Federal Member for Ryan, Qld, “Stem cells – applications and limitations”, Indooroopilly, Qld, August 2002.
209. Invited Speaker – The 6th William Carey Lecture, “Stem cell research: implications for the community”, Melbourne, Australia, August 2002.
210. Invited Speaker – AustBiotech 2002, “Stem cells and tissue repair”, Melbourne, Australia, August 2002.
211. Invited Speaker – Australian Venture Capital Association, “The National Stem Cell Centre – Creating new opportunities in medicine”, Melbourne, Australia, August 2002.
212. Invited Speaker – 2002 ES Meyers Memorial Lecture, The University of Queensland Medical Society, “Embryos and embryonic stem cells: creating new medical directions”, Brisbane, Australia, August 2002.
213. Invited Speaker – Founders Lecture for 2002 Annual Scientific Conference of the Society for Reproductive Biology, “Embryo development and biotechnology”, Adelaide, Australia, September, 2002.
214. Invited Speaker – 3rd Cold Spring Harbor Laboratory meeting on Germ Cells, “Maturation of human oocytes in vitro”, Cold Spring Harbor, USA, October 2002.
215. Invited Speaker – Fertility Society of Australia 21st Annual Scientific Meeting, “Using stem cells”, Gold Coast, Australia, October 2002.
216. Invited Speaker – Australian Skeptics Annual Convention, “Stem cells: no more cloning needed”, Melbourne, Australia, November 2002.
217. Invited Speaker – Moving Towards the Knowledge Economy Conference, Sydney, Australia, November 2002.
218. Invited Speaker – Retina Australia National Congress, “Could stem cell research lead to a bigger, bolder, brighter future for people with retinal dystrophies?”, Melbourne, Australia, November 2002.
219. Invited Speaker – Australasian Medical Writers Association – New Agendas in Health Care, “Exploring the frontiers of stem cell technology”, Melbourne, Australia, November 2002.
220. Invited Speaker – The Lyceum Club, “Stem cells – new cells for old and lost ones”, Melbourne, Australia, November 2002.
221. Invited Speaker – Monash Medical Centre Senior Medical Staff Dinner, “Stem cells and potential new therapies”, Melbourne, Australia, December 2002.
222. Invited Speaker – Australian Pharmaceutical Science Association 2002 Conference, “Stem cells – an update on research and regulation”, Melbourne, Australia, December 2002.
223. Invited Speaker – Supreme and Federal Court Judges Conference, Adelaide, Australia, January 2003.
224. Invited Speaker – Committee for Economic Development of Australia, “Human embryonic stem cells”, Melbourne, Australia, February 2003.

225. Invited Speaker – Australian Biotechnology Summit, Sydney, Australia, April 2003.
226. Invited Speaker – Australasian Tissue Banking Forum 4th Scientific and Business Meeting, Canberra, April 2003.
227. Invited Speaker and Course Lecturer, Frontiers in Human Embryonic Stem Cells, Pittsburgh, USA, April – May 2003.
228. Invited Speaker, The New World of Medicine, Monash Prato, Prato, Italy, May 2003.
229. Invited Speaker, Stem Cell Research Forum, Perth, Australia, May 2003.
230. Invited Speaker, Gene Technology Colloquia, Melbourne, May 2003.
231. Invited Speaker, Gene Technology Colloquia, Canberra, June 2003.
232. Invited Speaker, Australia South East Asian and New Zealand (ASEANZ) Cardiovascular and Lipid Meeting, Melbourne, Australia, June 2003.
233. Invited Speaker, Clifton Consulting ‘Views of Melbourne’ Seminar, June 2003.
234. Invited Speaker, Australian and New Zealand Children’s Cancer Study Group 17th Annual Scientific Meeting, Sydney, Australia, June 2003.
235. Invited Speaker, Australian Medical Students’ Association Convention, Brisbane, Australia, July 2003.
236. Invited Speaker, Australian Health Insurance Association National Conference, Melbourne, Australia, July 2003.
237. Invited Speaker, XIX Intern. Congress of Genetics, Melbourne, Australia, July 2003.
238. Invited Speaker, State of the ART 2003 ‘The Communicating Oocyte’, Madrid, Spain, July 2003.
239. Invited Speaker and Session Chair, ESHRE Pre-Congress Course “Stem Cells”, Madrid, Spain, July 2003.
240. Session Chair, XIX Annual Meeting of ESHRE, Madrid, Spain, July 2003.
241. Invited Speaker, 25 Years of IVF – Royal College of Obstetricians and Gynaecologists, London, UK, July 2003.
242. Invited Speaker, Public Lecture on Stem Cell Research, Royal Society of Tasmania, Hobart, Australia, August 2003.
243. Invited Speaker, Mount Desert Island Stem Cell Symposium, Maine, USA, August 2003.
244. Invited Speaker, 13th International Congress of the International Confederation for Plastic, Reconstructive and Aesthetic Surgery, Sydney, Australia, August 2003.
245. Invited Speaker, State of Victoria European Office, Frankfurt, Germany, August 2003.
246. Invited Speaker, Opening Ceremony Plenary Lecture, 11th European Congress on Biotechnology, Basel, Switzerland, August, 2003.
247. Invited Speaker, Administrative Staff Support Network, Monash University, September 2003.
248. Plenary Speaker and Session Chair, First National Stem Cell Centre International Conference, Melbourne, October 2003.
249. Invited Speaker, NSW Stem Cell Network Conference, Sydney, October 2003.
250. Invited Speaker, Diabetes & the Metabolic Syndrome in the New Millennium, Sydney, October 2003.
251. Invited Speaker, 17th IDP Australian International Education Conference, Melbourne, October 2003.
252. Invited Speaker, Women’s Hospitals Australasia Annual Conference, Melbourne, October 2003.
253. Invited Speaker, St George Hospital Symposium, Sydney, November 2003.
254. Plenary Speaker, The Royal Society of Victoria, Melbourne, November 2003.
255. Invited Speaker, Keystone Symposium on Stem Cells, Colorado, USA, January 2004.

256. Invited Speaker, Novartis Foundation Symposium 'Stem Cells: nuclear reprogramming and therapeutic applications', London, UK, March 2004.
257. Invited Speaker, Perinatal Society of Australia & New Zealand 8th Annual Conference, Sydney, Australia, March 2004.
258. Invited Speaker, Bachelor of Biomedical Science Students Annual Transition Workshop 'Frontiers in Medicine', Phillip Island, Victoria, March 2004.
259. Invited Speaker, 2nd European Respiratory Society Conference, Taormina, Sicily, March 2004.
260. Invited Speaker, U3A Stonnington 'Basic Developments and Current Trends Towards Therapies Involving Adult and Embryonic Stem Cells', Victoria, Australia, April 2004.
261. Invited Speaker/Guest Scientist, Australian Academy of Science - Science at the Shine Dome, Canberra, Australia, May 2004.
262. Guest Speaker, Warragul Rotary Club 2004 Annual Business Dinner, 'Early Stage Commercialism of Innovative Research', Victoria, Australia, May 2004.
263. Invited Speaker, United Nations Assembly Science Conference, New York, USA, June 2004.
264. Invited Speaker, Gordon Conference on Mammalian Gametogenesis and Embryogenesis, Connecticut, USA, June 2004.
265. Invited Speaker, International Society for Stem Cell Research 2nd Annual Meeting, Boston, USA, June 2004.
266. Invited Speaker, Monash Medical Centre's Update for General Paediatricians Meeting, 'Stem Cell Research – New developments that may be relevant to Paediatrics', Melbourne, Australia, June 2004.
267. Invited Speaker, Controversies in Assisted Human Reproduction Symposium, Budapest, Hungary, June 2004.
268. Session Chair and Workshop Participant – ESHRE Conference, Berlin, Germany, June 2004.
269. Invited Speaker, Monash University Department of Physiology Seminar, Melbourne, July 2004.
270. Invited Speaker, Mount Desert Island Stem Cell Symposium, Bar Harbor, Maine, USA, July 2004.
271. Guest Speaker, Athenaeum Club Foundation Dinner, Melbourne, August 2004.
272. Invited Speaker, Monash University Department of Immunology Annual Symposium, Melbourne, August 2004.
273. Invited Speaker, Canterbury Medical Research Foundation Conference, Christchurch, NZ, September 2004.
274. Invited Speaker, American Society for Bone and Mineral Research 26th Annual Meeting, Seattle, USA, October 2004.
275. Invited Speaker, Ernst Schering Research Foundation Conference, Kobe, Japan, October 2004.
276. Invited Speaker, Infertility Treatment Authority Symposium, Melbourne, October 2004.
277. Invited Speaker, Monash Asia Institute Outlook 2005 Seminar, Melbourne, December 2004.
278. Invited Speaker, Australasian Access Annual Conference, Melbourne, December 2004.
279. Invited Speaker, International Embryo Transfer Society Annual Conference, Copenhagen, Denmark, January 2005.
280. Invited Speaker, 12th World Congress on Human Reproduction, Venice, Italy, March 2005.

281. Invited Speaker, Human Fertilisation Embryology Authority Annual Conference, London, UK, March 2005.
282. Invited Speaker, Days of Molecular Medicine 2005, La Jolla, California, USA, March 2005.
283. Invited Speaker, 4th Australasian Gene Therapy Society Meeting, Melbourne, April 2005.
284. Invited Speaker, Annual Scientific Meeting of Australian Birth Defects Society, Melbourne, April 2005.
285. Invited Speaker, Wesley College Senior School, Melbourne, May 2005.
286. Invited Speaker, Annual Walter and Eliza Hall Postgraduate Student Retreat, Lorne, Melbourne, May 2005.
287. Invited Speaker and Session Chair, Preimplantation Genetic Diagnosis International Society Symposium, London, May 2005.
288. Invited Speaker and Session Chair, 13th World Congress of IVF, Assisted Reproduction and Genetics, Istanbul, Turkey, May 2005.
289. Invited Speaker, The Endocrine Society's 87th Annual Meeting, San Diego, USA, June 2005.
290. Invited Speaker, State of the ART, Copenhagen, Denmark, June 2005.
291. Guest Speaker, John Curtin School of Medical Research School Seminar, Canberra, July 2005.
292. Invited Speaker, Melbourne University Ethics Symposium 'Designer babies: are we going too far?', Melbourne, July 2005.
293. Invited Speaker, Australian Society for Psychosocial Obstetrics and Gynaecology Annual Scientific Meeting, Melbourne, August 2005.
294. Guest Speaker, Melbourne University Frontiers in Biomedical Sciences Seminar Series, Melbourne, August 2005.
295. Invited Speaker, 2005 Seoul Symposium on Stem Cell Research, Seoul, Korea, August 2005.
296. Invited Speaker, Monash University's Faculty of Engineering Dean's Scholars Seminar Series, Melbourne, September 2005.
297. Invited Speaker, Japan Australia Collaboration in Biomedicine, World Expo, Aichi, Japan, September 2005.
298. Keynote Address, Australian Private Hospitals Association 25th National Congress, Melbourne, October 2005.
299. Invited Speaker, National Product Liability Association's Biotech and Stem Cell Products Seminar, Melbourne, October 2005.
300. Guest Speaker, Monash University's Department of Microbiology Seminar, Melbourne, October 2005.
301. Invited Speaker, The Banbury Centre, Cold Spring Harbor Laboratory, NY, USA, November 2005.
302. Invited Speaker, The University of Texas MD Anderson Cancer Centre Mini-Symposium on Stem Cell Biology, Houston, Texas, USA, November 2005.
303. Plenary Speaker, Dental Association Annual Dinner, Melbourne, November 2005.
304. Plenary Spaker, Institute of Public Administration Australia's Annual Conference, Melbourne, November 2005.
305. Invited to deliver Jeremy Anderson Oration, Peninsula Health's Annual Research Dinner, Melbourne, November 2005.
306. Invited Speaker and Co-Chair, Preimplantation Genetic Diagnosis International Society on Genetics and Reprogramming, Belize, Central America, February 2006.

307. Plenary Speaker, Human Reproductive Health Through the Ages Congress, Adelaide, March 2006.
308. Invited Speaker, 38th GH and Growth Factors in Endocrinology and Metabolism Symposium, Granada, Spain, April 2006.
309. Invited Speaker, 5th Discovery Science and Biotechnology Conference, Melbourne, May 2006.
310. Invited Speaker, ANU College of Science and The Dean's Lecture Series, Canberra, May 2006.
311. Invited Speaker, ESHRE Pre-congress Course, Prague, June 2006.
312. Invited Speaker, Australian Health Summit 2006, Melbourne, July 2006.
313. Keynote Speaker, Ten Years of Puregon – Delivering success: the next decade. Athens, Greece, September, 2006.
314. Invited Participant, Triplets Endpoint Meeting, Lausanne, Switzerland, October 2006.
315. Invited Speaker, Centre for Eye Research 10th Anniversary, Melbourne, October, 2006.
316. Invited Speaker, Epworth Healthcare's Medical Advisory Council Annual Meeting, Melbourne, October, 2006.
317. Keynote Speaker, Fertility Society of Australia 2006 Conference, Sydney, October, 2006.
318. Invited Speaker, The Fifth Annual Activated Egg Symposium, Bedford, USA, November 2006.
319. Invited Speaker, 20th Annual Meeting of the German IVF Centres, Kiel, Germany, November 2006.
320. Invited Speaker, PGDIS 2007 Annual Meeting on Special Topic, Belize, Central America, February 2007.

PROFESSIONAL SOCIETIES:

Member of: International Embryo Transfer Society, 1976-
 Australian Society of Reproductive Biology, 1970-
 Family Planning Association of Australia, 1977-
 - Sub-committee of Australian Family Planning Association 1977-1981
 Chairman, Biological Sciences Committee,
 - Australian Family Planning Association 1982-1986
 Executive Committee Member, Australian Fertility Society 1982-1985
 Scientific Committee Member, Axel Munthe International Award in
 Reproduction, 1980-
 Endocrine Society of Australia, 1977-1995
 Executive Committee Member of the Australian
 Society for Reproductive Biology 1980-1984
 Society for the Study of Reproduction 1983-
 American Fertility Society 1985-1995
 Australian and New Zealand Society of Cell Biology, 1985-
 President, Australian Society for Reproductive Biology 1993 - 1995
 European Society of Human Reproduction and Embryology 1995 -
 American Society for Reproductive Medicine, 1995 -
 Society for Gynecologic Investigation - Associate Member, 2000 –

EDITORSHIPS:

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|----------------------------|--|
| Asian-Pacific Editor | Zygote 2000 – 2002 |
| Associate Editor - | Journal of In Vitro Fertilization and Embryo Transfer 1983 - 1991 |
| | Gamete Research 1984 - 1989 |
| | Gynecological Endocrinology 1987-1995 |
| | Theriogenology 1989 - 1996 |
| | Reproduction, Fertility and Development 1992 - 1996 |
| | Zygote 1993 – 2000. |
| | Human Reproduction Update 2001 – 2002. |
| Contributing Editor - | Journal of Assisted Reproduction and Genetics 1992 - 1995 Lancet 1987-1989 |
| Executive Editor - | Molecular Reproduction and Development - 1989- 2002. Cloning: Science and Policy 1998 - |
| Editor - | Reproductive BioMedicine Online 2000 - 2002 2003 - |
| International Editor - | Human Reproduction 1990 - 1997 Reproductive Medicine Reviews 1991 - 2001 |
| Scientific Editor - | Journal of Reproduction & Fertility 1992 - 2000 Reproduction 2000 - Seminars in Reproductive Medicine 2000 – |
| Editorial Board - | Stem Cell Reviews 2004 – Open Cell and Developmental Biology Journal 2007 – Stem Cell Research 2007 - |
| Editorial Advisory Panel - | Regenerative Medicine 2006 - present |

PATENTS:

Title: Embryonic Stem Cells
Patent Application No: PP7009
Filing Date: 9 November 1998

Title: Method of Nuclear Transfer
Patent Application No: PCT/AU99/00275
Filing Date: 15 April 1999

Title: A Method of Cryopreservation and Compositions for Use
Therein
Patent Application No: 60/136560
Filing Date: 28 May 1999

Title: Methods of Inducing Differentiation of Stem Cells Into A
Specific Cell Lineage
Patent Application No: PCT/AU03/00310
Filing Date: 14 March 2002