

PERSONAL INFORMATION

Born: 12th August 1963
 Nationality: Australian / British
 Email: david.gardner@mivf.com.au



CURRENT APPOINTMENTS

- Scientific Director, Melbourne IVF
- Group Director of ART, Scientific Innovation and Research, Virtus Health
- Redmond Barry Distinguished Professorial Fellow, University of Melbourne
- Fellow of the Australian Academy of Science
- Fellow of the Society of Reproductive Biology
- Editor, Reproductive BioMedicine Online
- Program Chair of the Fertility Society of Australia

AWARDS/HONOURS

1984-1987	Science and Engineering Research Council Graduate Scholarship (UK)
1985/1986	K.M.Stott Prize, University of York, for Excelling in Scientific Research
1988	Agricultural and Food Research Council Traveling Fellowship (UK)
1991	Junior Scientist Award: Australian Society for Reproductive Biology
1994-1997	Australian Research Council Fellowship
1997	SART Prize Paper, American Society for Reproductive Medicine
2005	Robert Edwards Lifetime Scientific Achievement Award, American Fertility Association
2006	Earl Plunkett Lecturer, Department of Obstetrics and Gynaecology, University of Western Ontario, Canada
2010	Prize Scientific Paper, Fertility Society of Australia (includes reciprocal lecture at the European Society of Human Reproduction and Embryology in Stockholm, July 2011)
2012	Fellow of the Society for Reproductive Biology
2013	Ian Johnston Memorial Lecture, Fertility Society of Australia, Sydney
2017	Fellow of the Australian Academy of Science
2017	Distinguished Researcher, American Society of Reproductive Medicine
2018	Redmond Barry Distinguished Professor, University of Melbourne
2021	De Watteville Memorial Lecture, FIGO, Sydney
2022	Member of the Order of Australia, AM (Queen's Birthday Honours List)
2022	Embryologist of the Year, American College of Embryology
2023	Lifetime Achievement Award, Society of Reproductive Biologists and Technologists, ASRM
2024	Life Membership of Alpha, Scientists in Reproductive Medicine
2025	Founders' Lecture, Society for Reproductive Biology, Australia & New Zealand

CAREER IMPACT

David Gardner is an innovative and world-leading embryologist. His basic research on the nutrition and metabolism of embryos and stem cells has not only added significantly to the scientific literature but has paved the way for significant improvements in embryo culture systems, for laboratory animals, domestic species and the human. The latter has laid the foundation for major clinical developments. His techniques significantly improved animal assisted reproduction and breeding programs and contributed to conservation techniques for endangered species. He transformed how human IVF is performed with the development of blastocyst transfer, resulting in significant increases in human pregnancy rates. His work facilitated the now widely accepted single embryo transfer and his specialised and improved culture media made it possible to isolate human embryonic stem cells. Equally excitingly, his work on biomarkers and AI to assess embryo viability holds great promise for the future. Over the past few years his team has focused on the mechanisms through which the culture environment can regulate developmental programming in embryos and stem cells through the metaboloepigenetic axis. He maintains an active research team, and he is currently working on blastocyst-endometrial signaling, the role of antioxidants in ART, how AI can be used to select sperm, the development of microfluidic devices for sperm preparation and analysis, and how 3D microfabrication can be used to create novel devices to improve ICSI, culture and cryopreservation.

PUBLICATIONS

- Publications include: > 250 peer-reviewed papers
- > 70 book chapters
- 18 books (Editor). The Textbook of Assisted Reproductive Techniques, now in its 6th Edition, is acknowledged as the definitive text in the field of human IVF.
- Total number of citations is >40,000 by Google Scholar, 25,500 by Scopus and > 18,000 by ISI Web of Knowledge
- H factor is 108 by Google Scholar, 91 by Scopus and 78 by ISI Web of Knowledge.

An analysis by Ioannidis and colleagues (2019) "A standardized citation metrics author database annotated for scientific field. PLOS Biology 17(8): e3000384" has Prof Gardner ranked at #6065 in the world across all scientists (the sample size was > 6.6 million authors over a 20-year period). This analysis places me in the top 0.1% for impact across all scientific disciplines worldwide over the past two decades. A recent update by Ioannidis (2021 - <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>) saw his ranking rise to #5897.

CAREER HIGHLIGHTS

Aug 2018 - 2023	Redmond Barry Distinguished Professor
Dec 2016 –	Scientific Director, Melbourne IVF
Jan 2015 -	Professor, Department of BioSciences, University of Melbourne
Nov 2007 –	Chair of Zoology, University of Melbourne
Jan 2009 – Dec 2014	Head of Department of Zoology, University of Melbourne
Jan 2010 – present	Fellow, Prince Henry's Institute of Medical Research
Oct 1999 – July 2007	Scientific and Laboratory Director, Colorado Center for Reproductive Medicine, USA
April 2002 – March 2007	Scientific and Laboratory Director, Houston IVF, USA
2003-2007	Clinical Assistant Professor, University of Texas Medical School, USA
June 2004 – Oct 2007	Honorary Principal Fellow/Associate Professor, Department of Zoology, University of Melbourne
2002 -2005	Visiting Professor, University of Zhongshan, China
May 1998 – Aug 1997	Adjunct Professor, Department of Biomedical Sciences, Colorado State University
Sept 1997 – Sept 1999	Director of Research and Development, Colorado Center for Reproductive Medicine
Jan 1994 – Dec 1999	Research Associate, Department of Zoology, University of Melbourne.
Mar 1994 - Aug 1997	Senior Scientist, Institute of Reproduction and Development.
Jan 1992 - Aug 1997	Research Fellow & Deputy Head of Laboratories of Human & Animal Reproductive Biology, Institute of Reproduction & Development, Monash University.
Jan 1991 – Sept 1997	Clinical Embryologist, Monash IVF (part time).
Sept 1991 – Dec 1999	Honorary Lecturer in Obstetrics & Gynaecology, Monash University.
Feb 1991 - Dec 1991	Senior Research Officer & Deputy Head of Embryology & Fertility Group, CEHD.
Jan 1990 – Dec 1995	Director of Laboratory Services, Monash IVF, Melbourne, Australia
Aug 1989 - Jan 1991	Research Officer & Deputy Head of Embryology & Fertility Group, Centre for Early Human Development, Monash University, Australia. Director: Alan Trounson.
Aug 1989 to Sept 1997	Head, Embryo Physiology Laboratory, Centre for Early Human Development (CEHD).
1988	Research Fellow in Molecular and Cellular Physiology, Laboratory of Human Reproduction and Reproductive Biology Harvard University, Boston, Laboratory of Professor John D. Biggers.
Oct 1987 - July 1989	Research Fellow, Department of Biology, University of York, UK. Laboratory of Dr. Henry J. Leese.

EDUCATION

1981-1984	Biology Department, University of York, U.K., B.Sc. (Hons) Biology
1984-1987	Biology Department, University of York, D.Phil. Thesis "The Nutrition and Energy Metabolism of the Preimplantation Mouse Embryo" Supervisor, Professor Henry Leese

POST-GRADUATE STUDENT SUPERVISION AND POSTDOCTORAL FELLOWS

- Trained 18 PhD students and 6 MSc students to completion
- Trained 17 Post-Doctoral Fellows

GRANTS AWARDED TOTALING \$17M

INVITED CONFERENCE LECTURES / SEMINARS

Invited to speak at over 100 international meetings including over 25 Keynote addresses

INTERNATIONAL SYMPOSIA ORGANISED BY PROFESSOR GARDNER

2000	ART and the Human Blastocyst, Serono Symposium, Dana Point, CA
2005	Serono Symposium, ART in the 21 st Century, Nice, France
2008	Emerging Technologies for the Assessment of Gametes and Embryos: The “Omics”, La Jolla, USA
2014	Alpha, 10 th Biennial Conference, Antalya, Turkey
2014	The 2 nd Biomarkers Meeting in Reproductive Medicine, Valencia, Spain
2016	Alpha, 11 th Biennial Conference, Copenhagen, Denmark
2016	The 3 rd Biomarkers Meeting in Reproductive Medicine, Valencia, Spain
2018	The 4 th Biomarkers Meeting in Reproductive Medicine, Valencia, Spain (Co-Chair)
2018	Alpha, 12 th Biennial Conference, Reykjavik, Iceland
2020	First Online Congress on Future Innovations for Embryologists (over 9,000 attendees)
2021	Second Online Congress on Future Innovations for Embryologists (over 9,000 attendees)

EDITORIAL BOARD

Reproductive Biomedicine Online – Section Editor (2013 – present)

Clinical and Experimental Reproductive Medicine (2012 – present)

Molecular Human Reproduction (1998 – 2000)

Reproduction (2004 – 2009)

Reproduction, Fertility and Development (2007 – 2009)

Molecular Reproduction and Development (2000 – 2013)

Journal Assisted Reproduction and Genetics (2009 – 2013)

PROFESSIONAL SOCIETIES

1984-present	Society for the Study of Fertility (U.K.)
1989-present	Society for Reproductive Biology (formerly Australian Society for Reproductive Biology, ASRB)
1993-present	Society for the Study of Reproduction (U.S.A.)
1994-present	International Embryo Transfer Society
1997-present	European Society for Human Reproduction and Embryology
1997-present	American Society for Reproductive Medicine
2000-present	Alpha (Executive Board Member 2012-2021, and President from 2018 - 2021)
2007-present	American College of Embryologists (Founder Member)
2007-present	Fertility Society of Australia and New Zealand, & Scientific Program Chair

Professor David K. Gardner, 20th June 2025

