

MEET THE EXPERT

De-Yi Liu

Scientific Director of Andrology, Melbourne IVF, Virtus Health and an Honorary Senior Research Fellow at the University of Melbourne Department of Obstetrics and Gynaecology (Royal Women's Hospital).

Affiliation

Melbourne IVF, Virtus Health and University of Melbourne, Australia.

Background

De-Yi Liu completed his Ph.D. in Reproductive Medicine at the University of Melbourne in 1991. He then continued his research on sperm function and male infertility as a Senior Research Fellow at the University of Melbourne Department of Obstetrics & Gynaecology (Royal Women's Hospital). In 2010, he was appointed Scientific Director of Andrology at Melbourne IVF. Today, he remains an Honorary Senior Research Fellow with the University of Melbourne.

From 2003 to 2006, he served as an Associated Editor for Human Reproduction. He is currently an Editorial Board Member for the *Asian Journal of Andrology* (AJA) and Reproductive and Developmental Medicine. In 2009 and 2011, he was awarded for excellent contribution (top 10% of the journal reviewers) as he made to the Human Reproduction's peer review process. In 2016, he received the Excellent Editorial Board Member Award and the Outstanding Reviewer Award from the AJA.

Major Research Interests

Liu's main research interest is on sperm function and male infertility in clinical ART, with expertise in semen analysis, sperm cryopreservation, sperm capacitation, acrosome reaction and sperm-oocyte interaction. He developed a number of new sperm function tests to improve diagnosis of male factor infertility, particularly sperm-oocyte interaction tests to detect specific sperm defects causing failure of fertilization *in vitro* in men with unexplained infertility. He was the first to report disordered zona pellucida (ZP)-induced acrosome reaction (AR) in unexplained male infertility with normal semen analysis and normal sperm-ZP binding. He investigated prevalence of defective sperm-ZP binding and the ZP-induced AR from thousands of infertile men. He also found that the human ZP selectively binds sperm with normal morphology and normal DNA and introduced use of the ZP-binding selection of high quality sperm for ICSI. Over the last 30 years, he has published 84 SCI papers and 8 book chapters. His publications have been cited over 2000 times by other authors.

Relation to AJA

I am very privileged and honoured to have served as an Editorial Board Member and a reviewer for the AJA for the past 16 years. The AJA started in 1999 with an impact factor of below 1.0, today the AJA has grown tremendously to become the number one Andrology journal in the world, with an impact factor 2.996. This is a huge achievement. The AJA has been greatly supported by many well respected and talented andrologists and reproductive medical scientists for the past 16 years. I have no doubt that the AJA will continue to grow on its success and remain the leading Andrology journal for many years to come.

