

Dr. George Thouas

Research Fellow



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Current Research

Development and implementation of novel bioreactors for tissue engineering, in vitro technologies and generic biomedical applications, as part of research at the Monash Biomedical Engineering and Technology Alliance (MuBeta). Involved also in imaging methods for cardiovascular physiology research at the Monash University School of Biomedical Sciences.

Research Interests

Bioreactor design and implementation, tissue culture methodology, cell and tissue microscopy and imaging, cell physiology, developmental biology of oocytes and embryos, in vitro fertilization

Professional Affiliations

Fertility Society of Australia
Tissue Engineering and Regenerative Medicine International Society

Selected Publications

- Thouas GA, Trounson AO, Jones GM (2006). Developmental effects of sublethal mitochondrial injury in mouse oocytes. *Biol. Reprod.* May 74(5): 969-77.
- Thouas GA, Trounson AO, Jones GM (2005). Effect of female age on mouse oocyte developmental competence following mitochondrial injury. *Biol. Reprod.* Aug 73(2): 366-73.
- Thouas GA, Trounson AO, Wolvetang EJ and Jones GM (2004). Mitochondrial Dysfunction in Mouse Oocytes Results in Preimplantation Embryo Arrest In Vitro. *Biol. Reprod.* Dec 71(6) 1936-42.
- Huynh K, Jones G, Thouas G, Britt, Simpson ER and Jones ME (2003). Estrogen is not directly required for oocyte developmental competence. *Biol. Reprod.* 70(5):1263-1269.
- Thouas GA, Trounson AO, Jones GM (2003) The 'GO' system--a novel method of microculture for in vitro development of mouse zygotes to the blastocyst stage. *Reproduction.* 2003 Aug;126(2):161-9.
- Figueiredo F, Jones GM, Thouas GA and Trounson AO (2002). The effect of extracellular matrix proteins on mouse preimplantation development in vitro. *Reprod. Fertil. Dev.* 14(7-8)443-451.
- Vajta G, Lewis IM, Hyttel P, Thouas GA and Trounson AO (2001). Somatic cell cloning without micromanipulators. *Cloning* 3(2): 89 – 95.
- Jones G, Trounson A, Vella P, Thouas G, Lolatgis N, Wood C (2001). Glucose metabolism of human morula and blastocyst stage embryos and its relationship to viability after transfer. *Reproductive Biomedicine Online* 3(2): 124-132.
- Thouas GA, Korfiatis NA, French AJ, Jones GJ, Trounson AT (2001). Simplified technique for differential staining of inner cell mass and trophectoderm cells of mouse and bovine blastocysts. *Reproductive BioMedicine Online* 3(2), No. 1 25-29.
- Jones GM, Figueiredo F, Oslanianis T, Pope AK, Steeves TE, Thouas GA and Trounson AO (2001). Embryo Culture, Assessment, Selection and Transfer" in *Current Practices and Controversies in Assisted Reproduction: Report of a meeting on Medical, Ethical and Social Aspects of Assisted Reproduction*, W.H.O. Headquarters, Geneva, Switzerland, 17–21 September 2001, Ch 3. pp 177-210.