Curriculum Vitae (3 pages)

Dr Pantelis Georgiades, PhD.

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EDUCATION/TRAINING (starting from most recent)

- **2001-2005:** *Postdoctoral Research Fellow* with Prof. Janet Rossant, Samuel Lunenfeld Research Institute (**Canada**).
- **2000-2001:** *MRC Postdoctoral Research Fellow,* with Prof. Stephen Charnock-Jones and Prof. Stephen Smith, Pathology Dept., University of Cambridge (**UK**).
- **1996-2000:** *Wellcome Trust Postdoctoral Research Fellow* with Prof. Anne Ferguson-Smith and Prof. Graham Burton, Anatomy Dept., University of Cambridge (**UK**).
- **1992-1996:** *Wellcome Trust Prize PhD student* obtaining a ***PhD*** in '*Developmental Biology'*, Molecular Pathology Dept., with Prof. Paul Brickell, UCL, University of London (**UK**).
- **1988-91**: *Undergraduate student* obtaining a ***BSc (Hons)*** *Degree* (2:1) in '*Molecular Biology'*, Queen Mary, University of London (**UK**)**.**

PRINCIPAL INVESTIGATOR APPOINTMENTS (starting from most recent)

- **2013-today:** *Associate Professor and Head of the 'Embryology and Stem Cell Lab'*, Department of Biological Sciences, University of Cyprus (**Cyprus**).
- **2005-2013:** *Assistant Professor and Head of the 'Embryology and Stem Cell Lab'*, Department of Biological Sciences, University of Cyprus (**Cyprus**).

SELECTED AWARDS (starting from most recent)

- **2010-2013:** '*Research grant award'* (105,000 Euros),'Research Promotion Foundation', (PENEK/0609/90), **Cyprus.**
- **2010-2012:** '*Research grant award'* (80,000 Euros), 'Research Promotion Foundation', (PENEK/0609/89), **Cyprus.**
- **2010-2012:** '*Research grant award'* (90,000 Euros), 'University of Cyprus research body', (Code: Ets2), **Cyprus**.
- **2006-2007:** *'Equipment Start-up fund award'* (256,000 Euros), 'University of Cyprus', **Cyprus**.
- **2001-2004:** *'Postdoctoral Research Fellowship'*, Samuel Lunenfeld Research Institute, **Canada**.
- **2000-2001:** *'MRC Postdoctoral Research Fellowship',* University of Cambridge, **UK**.
- **1996-2000:** '*Wellcome Trust Postdoctoral Fellowship'*, University of Cambridge, **UK**.
- **1992-1995**: '*Wellcome Trust Prize PhD studentship*", UCL University of London, **UK**.
- **1993-1995:** '*The A.G. Leventis Foundation* Postgraduate Scholarship', UCL University of London, **UK**.

RESEARCH INTERESTS

Research in my Lab uses embryos and embryo-derived stem cells from mice to study mammalian development. We are currently **focused on** understanding the genetic and cellular basis of: (a) extraembryonic tissue development (main focus on trophoblast and placenta) and (b) the influences of early extraembryonic tissues (mainly the trophoblast) on early embryo patterning/gastrulation. To this end, the discoveries of my Lab include: (1) Demonstration that trophoblast signaling is not only required for gastrulation initiation, but also for its progression after primitive streak formation (*Polydorou and Georgiades, 2013, Nature communications*). (2) Establishment of lentivirus-mediated gene knockdown in trophoblast stem (TS) cells as a new tool for gene function studies in these stem cells (*Odiatis and Georgiades, 2010, Placenta*). (3) Discovery of new aspects about placental development about the clinically important remodeling of placental spiral arteries (*Charalambous, Elia, Georgiades, 2012, BBRC; Elia, Charalambous, Georgiades, 2011, BBRC*). (4) Establishment of the first serum-free/chemically defined mouse embryo culture system for studying early mammalian postimplantation development (*Drakou and Georgiades, 2015, BBRC*).

EDITORIAL BOARD MEMBER

- **2016-today:** Journal: '*Scientific Reports*' (**UK**)
- **2011-today:** Journal: '*Stem Cell Discovery*' (**USA**)
- **2011-today:** Journal: '*Anatomy Domain*' of "*The Scientific World Journal*" (**USA**)

MANUSCRIPT REVIEWER/GRANT EVALUATOR

- **Reviewer** for many manuscripts from several Journals including '*Development*', '*Annals of Medicine*', '*PLoS Computational Biology*' and '*Biotechniques*'.
- **Evaluator** for Medical Research Council (MRC) grant applications (UK)

MEMBER OF PROFESSIONAL SOCIETIES/ORGANISATIONS

- **1996-today:** *British Society for Developmental Biology* (**UK**)
- **2005-today**: *The A. G. Leventis Foundation Scholars Association* (**Cyprus**)
- **1996-2001:** *Corpus Christi College, University of Cambridge* (**UK**)

INVITED SPEAKER (selected talks)

- **2014:** "*MRC University of Edinburgh Centre for Reproductive Health Seminars*" University of Edinburgh (**UK**)
- **2012:** "*Departmental Seminar"*, Department of Anatomy and Embryology, University of Goettingen (**Germany**)
- **2011:** *EMBO Workshop* "Lineage Commitments: Extraembryonic-Embryonic Interfaces", Leuven (**Belgium**)
- **2009:** "*International Conference: Medical Applications of Stem Cells*", Limassol (**Cyprus**)
- **2008:** "*Departmental Seminar"*, King's College London School of Medicine (**UK**)
- **2006:** *Conference "Great Lakes Mammalian Development"*, Toronto (**Canada**)
- **2005:** *Institute Seminar* at 'Samuel Lunenfeld Research Institute', Mount Sinai Hospital (**Canada**)
- **2004:** *Workshop* 'Model systems and scientific inference: Crossing the species boundaries', MIT (**USA**)
- **2003:** *XIIth World Congress "Gestational Trophoblastic Diseases"*, Harvard Medical School (**USA**)
- **2000:** "*Tripartite Conference of the Anatomical Society"*, University of Cambridge (**UK**)

RESEARCH COLLABORATORS

- **Prof. Janet Rossant:** Peter Gilgan Centre for Research and Learning, The Hospital for Sick Children and Department of Molecular Genetics, University of Toronto (**Canada**)
- **Prof. Graham Burton:** Centre for Trophoblast Research, University of Cambridge (**UK**)
- **Dr Tilo Kunath:** MRC Centre for Regenerative Medicine, University of Edinburgh (**UK**)

- **Dr Andrew Groves:** Program in Developmental Biology, Baylor College of Medicine (**USA**)

SELECTED PEER REVIEWED PUBLICATIONS

- Birol, O., Ohyama, T., Edlund, R. K., Drakou, K., **Georgiades, P**., & Groves, A. K. (2016). The mouse Foxi3 transcription factor is necessary for the development of posterior placodes. ***Developmental biology***, *409*, 139-151.

- Drakou, K., & **Georgiades, P**. (2015). A serum-free and defined medium for the culture of mammalian postimplantation embryos. ***Biochemical and biophysical research communications***, *468*(4), 813-819.

- Polydorou, C., & **Georgiades, P**. (2013). Ets2-dependent trophoblast signalling is required for gastrulation progression after primitive streak initiation. ***Nature communications***, *4*, 1658.

- Charalambous, C., Drakou, K., Nicolaou, S., & **Georgiades, P**. (2013). Novel Spatiotemporal Glycome Changes in the Murine Placenta During Placentation Based on BS-I Lectin Binding Patterns. ***The Anatomical Record***, *296*, 921-932.

- Charalambous, F., Elia, A., & **Georgiades, P**. (2012). Decidual spiral artery remodeling during early post-implantation period in mice: investigation of associations with decidual uNK cells and invasive trophoblast. ***Biochemical and biophysical research communications***, *417*(2), 847-852.

- Elia, A., Charalambous, F., & **Georgiades, P**. (2011). New phenotypic aspects of the decidual spiral artery wall during early post-implantation mouse pregnancy. ***Biochemical and biophysical research communications***, *416*(1), 211-216.

- Odiatis, C., & **Georgiades, P**. (2010). New insights for Ets2 function in trophoblast using lentivirus-mediated gene knockdown in trophoblast stem cells. ***Placenta*** 31, 630-640.

- **Georgiades, P.**, Cox B, Gertsenstein M, Chawengsaksophak K, Rossant, J. (2007). Trophoblast-specific gene manipulation using lentivirus-based vectors. ***BioTechniques*** 42:317-325.

- **Georgiades, P.,** & Rossant, J. (2006). *Ets2* is necessary in trophoblast for normal embryonic anteroposterior axis development. ***Development*** 133, 1059-1068.

- **Georgiades, P.,** Ferguson-Smith AC, Burton, G.J. (2002). Comparative developmental anatomy of murine and human definitive placentae. ***Placenta*** 23, 3-19.

- **Georgiades, P.,** Watkins M, Burton GJ, Ferguson-Smith, A.C. (2001). Roles for genomic imprinting and the zygotic genome in placental development***. Proceedings of the National Academy of Sciences USA*** 98, 4522-4527.

- **Georgiades, P.,** Watkins M, Surani MA, Ferguson-Smith, A.C. (2000). Parental origin-specific developmental defects in mice with uniparental disomy for chromosome 12***. Development*** 127, 4719-28.

- Takada S, Tevendale M, Baker J, **Georgiades P,** Campbell E, Freeman T, Johnson MH, Paulsen M, Ferguson-Smith AC (**2000**) Delta-like and gtl2 are reciprocally expressed, differentially methylated linked imprinted genes on mouse chromosome 12. ***Current Biology*** 10, 1135-8.

- **Georgiades P,** Chierakul C,Ferguson-Smith AC (**1998**)Parental origin effects in human trisomy for chromosome14q: implications for genomic imprinting. .***Journal of Medical Genetics*** 35, 821 824.

- **Georgiades P,** Wood J, Brickell PM (**1998**) Retinoid X receptor-gamma gene expression is developmentally regulated in the embryonic rodent peripheral nervous system. ***Anatomy and Embryology*** 197, 477-484. (5**).

- **Georgiades P** and Brickell PM (**1998**) Regulation of retinoid X receptor-gamma gene transcript levels in rat heart cells. ***Cell Biology International*** 22, 457-463. (2**).

- **Georgiades P** and Brickell PM (**1997**) Differential expression of the rat retinoid X receptor gamma gene during skeletal muscle differentiation suggests a role in myogenesis. ***Developmental Dynamics*** 210,1-10.