

PETROS MARANGOS

CURRICULUM VITAE

Date of birth: 17 October 1972
Nationality: Greek
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EDUCATIONAL/EMPLOYMENT HISTORY

2010- University of Ioannina, Department of Biological Applications & Technology, Ioannina, Greece

Assistant Professor of Developmental Biology

2012- University College London (UCL), London, UK

Department of Cell and Developmental Biology, Division of Biosciences
Honorary Senior Lecturer

2009-2010 Fleming Biomedical Sciences Research Center, Institute of Molecular Oncology, Athens, Greece

Investigator (EMBO Long-Term Fellowship)
Research on the regulation of the meiotic cell cycle.

2004-2009 University College London (UCL), London, UK

Department of Cell and Developmental Biology, Division of Biosciences
Post-Doc involving research in the regulation of the mammalian meiotic cell cycle and in the possible deleterious effects following alterations of the normal cell cycle

2004 Stanford University, San Francisco, CA, USA

Department of Pathology
The work involved the role of Emi1 in the mitotic and meiotic cell cycles. Changes of the protein's concentration in the cells have been shown to cause irregular cell cycles. The work was supported by a Bogue Fellowship awarded from UCL.

1999-2004 University College London (UCL), London, UK

Department of Physiology
PhD in Mammalian Embryology and Cell Biology
Project: "Regulation of the cell cycle during mammalian oocyte maturation, fertilization and embryo development". The project involved the regulation of Ca⁺⁺ during oocyte development and the involvement of cell cycle regulators in the control of meiosis.

1998-1999 Hammersmith Hospital, Imperial College School of Medicine, London, UK
MSc in Human Reproductive Biology

Project: "Tissue Factor Expression during the Differentiation of Endometrial Stromal Cells"

1997-1998 Nursing Military School, Athens, Greece

Laboratory of Molecular Biology. Project: "Association of Mutations of p53 with Cancer"

1996-1997 Military Hospital, Rhodes, Greece

Assistant microbiologist, Military Service placement

1991-1996 University of Athens, Athens, Greece

Department of Biology. BSc (Hons) Biology, 2:1

Project: "Cloning and Characterization of Clones of Yeast Artificial Chromosomes (YACs) containing the Genetic Locus of the Tumour Necrosis Factor (TNF)". In association with Dr **G. Kolias**, Laboratory of Molecular Genetics, Pasteur Institute, Athens, Greece

FELLOWSHIPS / AWARDS

Aug. 2012: Honorary Senior Lecturer, Department of Cell and Developmental Biology, Division of Biosciences, University College London (UCL), London, UK

Jan. 2012: New Investigator Award 2012, Society for Reproduction & Fertility, UK.

Feb. 2008: EMBO Long-Term Fellowship (EMBL, Heidelberg, Germany).

Jan. 2004: Bogue Fellowship from UCL for placement at Stanford University, San Francisco, USA

SCIENTIFIC PROJECTS EVALUATION

2009 Expert evaluator for project call POSCCE-A2-O2.1.2-2009-2 organised on the Sectoral Operational Programme "Increase of Economic Competitiveness", Priority Axis 2, Romania.

2008 Expert evaluator for project call POSCCE-A2-O2.2.1-2007-1+Capacități-I-2007-2. Evaluation of projects proposals received at the 2007 competition for R&D for the development of public infrastructure in Romania.

TALKS GIVEN

Apr. 2013: Invited Speaker, Technische Universität Dresden, Germany

Aug. 2012: Invited Speaker, Society for the Study of Reproduction Meeting, Pennsylvania, USA

Jul. 2012: Invited Speaker, Society for Reproduction & Fertility Meeting, Edinburgh, UK

Jun. 2011: Invited Speaker, EMBO Fellows Meeting, EMBL, Heidelberg, Germany

Oct. 2009: Meeting in Cell Biology, Villefranche sur mer, France

Oct. 2008: Obstetrics and Gynaecology Unit, University College Hospital, London, UK

Sep. 2007: Meeting in Cell Biology, Villefranche sur mer, France

Oct. 2006: Meeting in Cell Biology, Villefranche sur mer, France

Nov. 2004: European Institute of Oncology, Milan, Italy

Feb. 2003: Assisted Conception Unit, University College Hospital, London, UK

Dec. 2002: Joint European Winter Conference in Reproduction, Tours, France

SCIENTIFIC EXPERTISE

Embryology: Oocyte/embryo culture, *in vitro* fertilization, oocyte/embryo/blastomere micro-injection, oocyte/embryo nuclear micro-injection.

Cell Biology: Conventional fluorescent microscopy, confocal microscopy, use of chimaeric fluorescent proteins (GFP, CFP, YFP, Cherry etc.) within oocytes/embryos, immunofluorescence, RNAi techniques.

Molecular Biology/Biochemistry: PCR, RT-PCR, in vitro RNA production, subcloning, site-directed mutagenesis, kinase assays, Western blotting.

PUBLICATIONS

Ibtissem Nabti, **Marangos P**, Kudo N and Carroll J. Dual-mode regulation by CDK1 and MAPK controls APC activity during meiosis I in mouse oocytes. *Journal of Cell Biology*. *In Press*

Carroll J and **Marangos P**. The DNA damage response in mammalian oocytes. *Frontiers in Genetics* (Cancer Genetics). 2013 June 24;4:117.

Marangos P. Micro-injection of Morpholino oligonucleotides for depleting Securin in mouse oocytes. *Methods in Molecular Biology*. 2013; 957: 153-62

Marangos P and Carroll J. Oocytes progress beyond prophase in the presence of DNA damage. *Current Biology*, 2012 June; 22(11): 989-994.

Marangos P and Carroll J. Securin regulates entry into M-phase by modulating the stability of cyclin B.. *Nature Cell Biology*, 2008 April; 10(4): 445-451.

Marangos P, Verschuren EW, Chen R, Jackson PK and Carroll J. Prophase I arrest and progression to metaphase I in mouse oocytes are controlled by Emi1-dependent regulation of APC/Cdh1. *Journal of Cell Biology*. 2007 Jan 1;176(1):65-75.

FitzHarris G, **Marangos P** and Carroll J. Changes in endoplasmic reticulum structure during mouse oocyte maturation are controlled by the cytoskeleton and cytoplasmic dynein.. *Developmental Biology*. 2007 May 1;305(1):133-44.

Marangos P, Carroll J. Fertilization and InsP3-induced Ca²⁺ release stimulate a persistent increase in the rate of degradation of cyclin B1 specifically in mature mouse oocytes. *Developmental Biology*. 2004 Aug 1;272(1):26-38.

Marangos P, Carroll J. The dynamics of cyclin B1 distribution during meiosis I in mouse oocytes. *Reproduction*. 2004 Aug;128(2):153-62.

Dumollard R, **Marangos P**, Swann K, Duchon M and Carroll J. Sperm-triggered Ca²⁺ oscillations and Ca²⁺ homeostasis in the mouse egg have an absolute requirement for mitochondrial ATP production. *Development*. 2004 Jul;131(13):3057-67.

Carroll J, FitzHarris G, **Marangos P**, Hallet G. Ca²⁺ signalling and cortical re-organisation during the transition from meiosis to mitosis in mammalian oocytes. *Eur J Obstet Gynecol Reprod Biol*. 2004 Jul 1;115 Suppl 1:S61-7.

Marangos P, FitzHarris G. and Carroll J Ca²⁺ oscillations at fertilization in mammals are regulated by the formation of pronuclei.. *Development*. 2003 Apr 1; 130(7):1461-1472

Halet G, **Marangos P**, FitzHarris G, Carroll J. Ca²⁺ oscillations at fertilization in mammals. *Biochem Soc Trans.* 2003 Oct; 31(Pt 5):907-11

FitzHarris G, **Marangos P** and Carroll J. Cell Cycle-dependent regulation of structure of endoplasmic reticulum and inositol 1,4,5-trisphosphate-induced Ca²⁺ release in mouse oocytes and embryos. *Molecular Biology of the Cell.* 2003 Jan;14(1):288-301

Christian M, **Marangos P**, Mak I, White J and Brosens J. Interferon-gamma modulates prolactin and tissue factor expression in differentiating human endometrial stromal cells. *Endocrinology.* 2001 Jul;142(7):3142-51

PARTICIPATION IN RESEARCH PROGRAMS

Bilateral Colaboration Greece-France 2009, ΣΑΕ «2009ΣΕ0138008» (ESPA, 2007-2013)

Title: The G2 checkpoint in mouse oocytes

Dates: Jan 2010 – Dec 2011

Value: 20.000 Euros

Role: Coordinator

Medical Research Council (MRC), UK Research Grant

Title: Co-ordinating the transition from egg to embryo in mammals

Dates: Jan 2005 – Dec 2010

Value: £ 1 086 800

Role: Post-Doc (grant awarded to J.Carroll, UCL, UK)

MRC, UK Career Establishment Grant

Title: The role of Ca²⁺ signaling in the transition from oocyte to embryo in mammals

Dates: Jan 2000 – Jan 2005

Value: £ 461 000

Role: PhD student (grant awarded to J.Carroll, UCL, UK)