Petros Marangos CV

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Google Scholar: https://scholar.google.com/citations?user=9S9cWN0AAAAJ&hl=el&oi=ao

Scopus ID: 7006877076

Website: http://www.bat.uoi.gr/eng/cellanddev_lab.php

https://www.bri.forth.gr/en/research-en/item/5537-petros-marangos

CURRENT POSITIONS

2022- University of Ioannina, Department of Biological Applications & Technology (BAT), Ioannina, Greece, Associate Head of Department, BAT

2022- Biomedical Research Institute, Foundation for Research and Technology (BRI/FORTH), Ioannina, Greece

Member of the Research Committee

2016- University of Ioannina, BAT, Ioannina, Greece

Associate Professor of Developmental Biology

2016- BRI/FORTH, Ioannina, Greece

Affiliated Researcher

2012 University College London (UCL), London, UK

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

PREVIOUS POSITIONS

2017-2022 University of Ioannina, Department of Biological Applications & Technology (BAT), Ioannina, Greece, Head of Department, BAT

2011-2016 University of Ioannina, Department of Biological Applications & Technology (BAT), Ioannina, Greece

Assistant Professor of Developmental Biology

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

Investigator (EMBO Long-Term Fellowship)

Research on the DNA damage response of mammalian oocytes

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.

EDUCATION

2000-2004 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"

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. Kollias, Laboratory of Molecular Genetics, Pasteur Institute, Athens, Greece

PUBLICATIONS

Pailas, A., Niaka, K., Zorzompokou, C., <u>Marangos, P</u>. (correspondence). The DNA Damage Response in Fully Grown Mammalian Oocytes. *Cells*, 2022, 11(5), 798

Rémillard-Labrosse, G., Dean, N. L., Allais, A., Mihajlović, A. I., Jin, S. G., Son, W. Y., Chung, J. T., Pansera, M., Henderson, S., Mahfoudh, A., Steiner, N., Agapitou, K., **Marangos, P.**, Buckett, W., Ligeti-Ruiter, J., & FitzHarris, G. Human oocytes harboring damaged DNA can complete meiosis I. *Fertility and Sterility*, 2020, *113*(5), 1080–1089.e2.

Gonzalez Malagon, S. G., Dobson, L., Muñoz, A. M., Dawson, M., Barrell, W., Marangos, P., Krause, M., Liu, K. J. Dissection, Culture and Analysis of Primary Cranial Neural Crest Cells from Mouse for the Study of Neural Crest Cell Delamination and Migration. *JoVE (J. Vis. Exp.)* 2019, (152), e60051, doi:10.3791/60051.

Zhang QH, Yuen WS, Adhikari D, Flegg JA, FitzHarris G, Conti M, Sicinski P, Nabti I, <u>Marangos P</u>, Carroll J. Cyclin A2 modulates kinetochore-microtubule attachment in meiosis II. *J Cell Biol*. 2017 Aug 17. 216:3133-3143

Nabti I, Grimes R, Sarna H, <u>Marangos P</u>, Carroll J. Maternal age-dependent APC/C-mediated decrease in securin causes premature sister chromatid separation in meiosis II. *Nat Commun*. 2017 May 18;8:15346.

<u>Marangos P</u> (correspondence). Preparation of cell lysate from mouse oocytes for Western blotting analysis. *Methods in Molecular Biology*. 2016;1457:209-15

<u>Marangos P</u> (correspondence), Stevense M, Niaka K, Lagoudaki M, Nabti I, Jessberger R and Carroll J. DNA damage-induced metaphase I arrest is mediated by the Spindle Assembly Checkpoint and maternal age. *Nature Communications*. 2015 November 2;6:8706.

Ibtissem Nabti, <u>Marangos P</u> (correspondence), 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*. 2014 March; 204(6):891-900.

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

<u>Marangos P</u> (correspondence). Micro-injection of Morpholino oligonucleotides for depleting Securin in mouse oocytes. *Methods in Molecular Biology*. 2013; 957: 153-62

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

<u>Marangos P</u> (correspondence) 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.

Supported by a News and Views article.

<u>Marangos P</u> (correspondence), 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, <u>Marangos P</u> 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.

<u>Marangos P</u>, 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.

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

Dumollard R, <u>Marangos P</u>, Swann K, Duchen 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, <u>Marangos P</u>, 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.

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

FitzHarris G, <u>Marangos P</u> 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, <u>Marangos P</u>, Mak I, White J and Brosens J. Interferon- γ modulates prolactin and tissue factor expression in differentiating human endometrial stromal cells. *Endocrinology*. 2001 Jul;142(7):3142-51

FELLOWSHIPS / AWARDS / MEDIA COVERAGE

2020-: Participation in various radio/TV/social media programmes regarding the Covid-19 pandemic.

2014: The laboratory is acknowledged by the Scientific Excellence Initiative.

https://www.youtube.com/watch?v=SgZhMUASXeA&ab_channel=aristeiaacadem1

2013: Media coverage: TV news reports (ET3, ITV Ioannina, Epirus TV).

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

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

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

2008: Presentation of research in a *News and Views* article in the Nature Cell Biology journal. **2004:** Bogue Fellowship from UCL for placement at Stanford University, San Francisco, USA

CONFERENCES/MEETINGS (Invited Speaker)

Nov. 2022: "Teaching in the time of new educational challenges", loannina, Greece

Sept. 2018: Conference "Novel Developments on Infertility and Assisted Reproduction", Ioannina,

Greece

Oct. 2017: Fondation Santé Fellows Symposium

May 2016: Institute of Molecular Biology and Biotechnology Retreat, Iraklio, Crete

Mar. 2016: ESHRE Campus symposium "Oocyte maturation - from basics to clinics", Brussels,

Belgium

Dec. 2015: Meeting in Medical Chemistry, University of Ioannina, Ioannina

Nov. 2014: Congress of the Hellenic Society of Biochemistry and Molecular Biology, Thessaloniki,

Greece

Apr. 2013 Technische Universität Dresden, Germany

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

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

Jun. 2011: 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

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

MEMBERSHIPS & REVIEWING ACTIVITIES

Reviewer: Nature Communications

Developmental Biology Human Reproduction

Reproduction

Member: Hellenic Society of Biochemistry and Molecular Biology

Hellenic Society of Biological Sciences Society for Reproduction and Fertility, UK Society for the Study of Reproduction, USA

TEACHING / SUPERVISION ACTIVITIES

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

Undergraduate Teaching: In charge and exclusive organiser and lecturer of the following courses: Cell Biology, Developmental Biology, Reproductive Biology

ADMINISTRATIVE ACTIVITIES

2022- Associate Head of Department, BAT, University of Ioannina.

2017- 2022 Head of Department, BAT, University of Ioannina.

2016-2017 Member of the Undergraduate Studies Program Committee.

2016-2017 3rd Year Undergraduate Student Tutor.

RESEARCH GRANTS

State Excellence (Hellenic Ministry of Development and Investments, ESPA) 2021-2024 3,000,000 Euros Collaborator – Member of the Organizing and Proposal Preparation Committee

IKY Foundation Post-Doctoral Fellowship February 2020 – February 2022 Supervisor

ELIDEK PhD Fellowship September 2019-June 2022 Supervisor

Niarchos Foundation PhD Fellowship January 2019 – September 2019 Supervisor

KRIPIS II / GSRT January 2018 – December 2020 Co-participant

Fondation Santé
January 2016 – December 2017
Coordinator

IKY Foundation Post-Doctoral Fellowship April 2015 – March 2017 Supervisor

COST Action CA15132
The comet assay as a human biomonitoring tool (hCOMET)
National (Greek) representative

John Latsis Foundation January 2014 – December 2015 Coordinator

Medical Research Council (MRC), UK Research Grant April 2011 – April 2016 Collaborator

Bilateral Collaboration Greece-France 2009, ΣAE «2009 $\Sigma E0138008$ » (ESPA, 2007-2013) January 2010 – December 2011

Coordinator