

# Curriculum vitae

## PERSONAL STATEMENT

I am a highly motivated, hard-working, and rigorous individual with extensive scientific knowledge and experience from world-class academic institutions such as Imperial College London and Karolinska Institutet. I have a global and cosmopolitan mindset having lived and worked in the United Kingdom, Cyprus, and Sweden. My research interest focuses on biomedical research and molecular biology.

## EDUCATION/TRAINING

Institution and locations	Degree	MM/YY
Imperial College London	Bsc	10/2003-06/2006
Imperial College London	MRes	10/2006-10/2007
Imperial College London	PhD	10/2007-06/2011
Imperial College London	Postdoctoral	06/2012-12/2012
Cyprus Institute of Neurology and Genetics	Postdoctoral	01/2013-12/2015
Karolinska Institute	Postdoctoral	01/2016-06/2018

## PRIZES AND AWARDS

**Invited Speaker at the EuroTox 2014 meeting:** I have been invited to present a talk at the EuroTox 2014 annual meeting with my travel costs covered by the organizers.

**Bursary from Wellcome Trust:** to attend the Exome Sequencing course at Sanger Institute in 2014

**Bursary from the Human Resource Development Authority of Cyprus:** to attend the Exome Sequencing course at Sanger Institute in 2014

**Oral presentation at the Society of Toxicology (SOT) 2011 international annual meeting:** Abstract was selected for an oral presentation at the SOT annual meeting which is attended by more than 7000 delegates from academia, government, and industry

**Society of Endocrinology 2010 postgraduate essay competition runner-up:** was runner-up in an essay competition on an endocrinology subject which was open to all students of the United Kingdom and Ireland registered for a graduate degree

**Chosen as “Syngenta Emerging Young Scientist of 2009”:** Selected amongst Syngenta scientific collaborators and awarded bursary (£1000) to attend international meeting of choice

**British Toxicology Society (BTS) bursary to attend annual meeting 2008:** Scientific abstract was considered of sufficient quality to be awarded a bursary covering registration, accommodation, and travel costs of attending the meeting

**Imperial College 2007 Science Challenge runner-up:** Runner-up in essay competition which was open to all students of the Imperial College.

## TEACHING AND STUDENT SUPERVISION

Has prepared and presented Lectures and Tutorials as part of the 2014 and 2015 “Cytogenetics and Genomics” module of the Cyprus School of Molecular Medicine (CSMM). Has been involved in supervision of Master and PhD students. The role included project design, training and supervision of students, and editorial supervision of write-up. Was an external examiner for the Human Biology Program of the University of Nicosia.

## RESEARCH MANUSCRIPTS

Rowbotham NJ, Furmanski AL, Hager-Theodorides AL, Ross SE, Drakopoulou E, **Koufaris C**, Outram SV, Crompton T. Repression of hedgehog signal transduction in T-lineage cells increases TCR-induced activation and proliferation. *Cell Cycle*. 2008 Apr 1;7(7):904-8.

**Koufaris C**, Wright J, Currie RA, Gooderham NJ. Hepatic microRNA profiles offer predictive and mechanistic insights after exposure to genotoxic and epigenetic hepatocarcinogens. *Toxicol Sci*. 2012 Aug;128(2):532-43.

**Koufaris C**, Wright J, Osborne M, Currie RA, Gooderham NJ. Time and dose-dependent effects of phenobarbital on the rat liver miRNAome. *Toxicology*. 2013 Dec 15;314(2-3):247-53.

Papaioannou M\*, **Koufaris C\***, Gooderham NJ. The cooked meat-derived mammary carcinogen 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) elicits estrogenic-like microRNA responses in breast cancer cells. *Toxicology Lett*. 2014 Aug 17;229(1):9-16.

\* Joint First publication

**Koufaris C**, Papagregoriou G, Kousoulidou L, Moutafi M, Tauber M, Jouret B, Kieffer I, Deltas C, Tanteles GA, Anastasiadou V, Patsalis PC, Sismani C. Haploinsufficiency of the miR-873/miR-876 microRNA cluster is associated with craniofacial abnormalities. *Gene*. 2015 Apr 25;561(1):95-100.

Segal CV, **Koufaris C**, Powell C, Gooderham NJ. Effects of treatment with androgen receptor ligands on microRNA expression of prostate cancer cells. *Toxicology*. 2015 Apr 3;333:45-52.

**Koufaris C**, Alexandrou A, Sismani C, Skordis N. Identification of an AVP-NP2 mutation within the AVP moiety in a Cypriot family with neurohypophyseal diabetes insipidus: a case report and review of the literature. *Hormones (Athens)* 2015 Jul;14(3):442-6.

**Koufaris C**, Valbuena GN, Pomyen Y, Tredwell G, Nevedomskaya E, Lau C, Yang T, Benito A, Ellis JK, Keun HC. Systematic integration of molecular profiles identifies miR-22 as a regulator of lipid and folate metabolism in breast cancer cells. *Oncogene* May;35(21):2766-76. doi: 10.1038/onc.2015.333.

**Koufaris C**, Alexandrou A, Tanteles GA, Anastasiadou V, Sismani C. A novel *HCFC1* variant in male siblings with intellectual disability and microcephaly in the absence of cobalamin disorder. *Biomed Rep*. 2016 Feb;4(2):215-218.

**Koufaris C**, Gallage S, Yang T, Lau CH, Valbuena GN, Keun HC. Suppression of MTHFD2 in MCF-7 Breast Cancer Cells Increases Glycolysis, Dependency on Exogenous Glycine, and Sensitivity to Folate Depletion. *J Proteome Res*. 2016 Aug 5;15(8):2618-25.

**Koufaris C**, Alexandrou A, Papaevripidou I, Alexandrou I, Christophidou-Anastasiadou V, Sismani C. Deletion of SNURF/SNRPN U1B and U1B\* upstream exons in a child with developmental delay and excessive weight. *J Genet*. 2016 Sep;95(3):621-4.

Aristidou C, **Koufaris C**, Theodosiou A, Bak M, Mehrjouy MM, Behjati F, Tanteles G, Christophidou-Anastasiadou V, Tommerup N, Sismani C. *PLoS One*. 2017 Jan 10;12(1):e0169935.

## REVIEWS

**Koufaris C**, Gooderham NJ. Are differences in microRNA regulation implicated in species-dependent response to toxicological exposures? *Toxicol Sci*. 2013 Feb;131(2):337-42

Gooderham NJ, **Koufaris C**. Using microRNA profiles to predict and evaluate hepatic carcinogenic potential. *Toxicol Lett*. 2014 Apr 30. pii: S0378-4274(14)00174-X.

Nicolaidou V, **Koufaris C**. MicroRNA responses to environmental liver carcinogens: Biological and clinical significance. *Clin Chim Acta*. 2015 Mar 12;445:25-33.

**Koufaris C** & Sismani C. Modulation of the Genome and Epigenome of Individuals Susceptible to Autism by Environmental Risk Factors. *Int. J. Mol. Sci*. 2015, 16(4), 8699-8718.

**Koufaris C**. Human and primate-specific microRNAs in cancer: Evolution, and significance in comparison with more distantly-related research models: The great potential of evolutionary young microRNA in cancer research. *Bioessays*. 2016 Mar;38(3):286-94. doi: 10.1002/bies.201500135.

## **Book Chapters**

Carolina Sismani, **Costas Koufaris**, Konstantinos Voskarides. *Copy Number Variation in Human Health, Disease and Evolution In Genomic Elements in Health, Disease and Evolution: the junk DNA*. pp129-154. Edited by Dr. Kyriakos Fellekis and Dr. Konstantinos Voskarides. Springer.

**Costas Koufaris** and Vicky Nicolaidou. *Therapeutics of Epigenetic-based RNA Molecules*. pp.731-745 Edited by Prof. Trygve Tollefsbol. Elsevier. Publication in Dec 2016.