

PERSONAL INFORMATION

Alexia Eliades, PhD

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✉ a.eliades@nipd.com

Sex Female | Date of birth 02/12/1983 | Nationality Cypriot

CURRENT POSITION

Assistant Senior Scientist, NIPD Genetics Ltd

UNIVERSITY EDUCATION

2006-2011

PhD candidate-Boston University School of Medicine

Department of Biochemistry, Advisor: Prof. Katya Ravid

Thesis title: The role of oxidases in megakaryocyte development

2001- 2005

BSc in Biological Sciences - University of Athens

Final year research thesis: Molecular mechanisms of Alzheimer's disease; Identification of novel interactions of the Amyloid Precursor Protein.

RESEARCH EXPERIENCE

2018-PRESENT

Assistant Senior Scientist- NIPD Genetics Public company Ltd

- Project management of the oncology R&D portfolio
- Development of cancer diagnostic tests for liquid biopsy, tissue biopsy and hereditary cancer screening
- Data generation, analysis and dissemination of results

2016-2018

Post- doctoral Scientist - NIPD Genetics Public company Ltd

- Development of methodology for non-invasive cancer diagnostics
- Development of molecular biology tools for cancer diagnostics

Business or sector Translational research and diagnostics | **Area** Cancer biology, genetics, genomics

2011- 2016

Post-doctoral Fellow - Cancer Research UK Manchester Institute
University of Manchester

- Investigating the origin of haematopoiesis using *in vivo* mouse models for cell fate tracing analysis
- Understanding the mechanisms that control commitment to haematopoiesis, focusing on the role of Runx1 transcription factor in emerging blood progenitors in the early embryo, applying molecular and cell biology techniques
- Applying live imaging and microscopy to trace the fate of haemogenic endothelial cells during embryonic hematopoiesis

Business or sector Academia | **Area** Cancer biology, Stem Cell biology

2006- 2011

PhD candidate-Boston University School of Medicine

- Investigating the role of cyclin E in megakaryocyte polyploidy using mouse primary bone marrow and fetal liver cultures from cyclin E transgenic mouse models
- Understanding the role of oxidases and oxidative stress in normal megakaryocyte development and polyploidy
- Deciphering the role of lysyl oxidase (LOX) in Primary Myelofibrosis using the GATA1^{low} mouse model

Business or sector Academia | **Area** Cancer biology, Haematopoietic research

2005-2006

Research Internship - Biomedical Research Foundation, Academy of Athens

- Protein purification of cell extracts using immobilized metal affinity chromatography (IMAC) for proteomic applications
- Assistance in the use of ESI-MS mass spectrometry for protein identification

Business or sector Biotechnology | **Area** Mass spectrometry, Biochemistry

SELECTED PUBLICATIONS

2016

Eliades A, Wareing S, Marinopoulou E, Lacaud G, Kouskoff V. **The hemogenic competence of endothelial progenitors is restricted by Runx1 silencing during embryonic development.** Cell Rep. 2016 Jun 7;15(10):2185-99.

Matsuura S, Mi R, Koupenova M, **Eliades A**, Patterson S, Toselli P, Thon J, Italiano JE Jr, Trackman PC, Papadantonakis N, Ravid K. **Lysyl oxidase is associated with increased thrombosis and platelet reactivity.** Blood. 2016 Mar 17;127(11):1493-501

2015

Fleury M, **Eliades A**, Carlsson P, Lacaud G, Kouskoff V. **FOXF1 inhibits hematopoietic lineage commitment during early mesoderm specification.** Development. 2015 Oct 1;142(19):3307-20.

2013

Eliades A, Papadantonakis N, Matsuura S, Mi R, Bais MV, Trackman P, Ravid K. **Megakaryocyte polyploidy is inhibited by lysyl oxidase propeptide.** Cell Cycle. 2013 Apr 15;12(8):1242-50.

2012

Eliades A, Matsuura S, Ravid K. **Oxidases and reactive oxygen species during hematopoiesis: a focus on megakaryocytes.** J Cell Physiol. 2012 Oct;227 (10):3355-62.

2011

Eliades A, Papadantonakis N, Bhupatiraju A, BurrIDGE KA, Johnston-Cox HA, Migliaccio AR, Crispino JD, Lucero HA, Trackman PC, Ravid K. **Control of megakaryocyte expansion and bone marrow fibrosis by lysyl oxidase.** J Biol Chem. 2011 Aug 5;286(31):27630-8.

2010

Eliades A, Papadantonakis N, Ravid K. **New roles for cyclin E in megakaryocytic polyploidization.** J Biol Chem. 2010 Jun 11;285(24):18909-17.

Yang D, Chen H, Koupenova M, Carroll SH, **Eliades A**, Freedman JE, Toselli P, Ravid K. **A new role for the A2b adenosine receptor in regulating platelet function.** J Thromb Haemost. 2010 Apr;8(4):817-27.

2009

McCran DJ, **Eliades A**, Makitalo M, Matsuno K, Ravid K. **Differential expression of NADPH oxidases in megakaryocytes and their role in polyploidy.** Blood. 2009 Aug 6;114(6):1243-9.

PATENTS

- **TARGET-ENRICHED MULTIPLEXED PARALLEL ANALYSIS FOR ASSESSMENT OF TUMOR BIOMARKERS.** G.Koumbaris, M. Ioannides, E.Kypri, A.Achilleos, P.Mina, **A.Eliades**, C.Loizides, P.Patsalis. U.S. Provisional Application No. 62/529,779

SELECTED CONFERENCES

2019

- PreSENTIA hereditary cancer testing panels: Detailed analysis of hereditary cancer genes. European Society of Human Genetics Conference. Gothenburg, Sweden, 2019. **Eliades A. Oral presentation.** Identification of hereditary cancer mutations with next generation sequencing technologies. TheHellenic Foundation for Cancer Research.2019. **Eliades A. Invited seminar.**

2018

- Clinical Utility of plasma DNA profiling of cancer patients with solid tumours, ISMPOCON. Jaipur, India, 2018. **Eliades A. Invited oral presentation.**
- Development of non-invasive method for assessing circulating tumour DNA in patients with solid tumours. **Eliades A**, Loizides C, Ioannides M, Achilleos A, Mina P, Tsangaras K, Kypri E, Koumbaris G, Patsalis PC. European Society of Human Genetics Conference. Milan, Italy, 2018. **Poster presentation.**
- Development of non-invasive method for assessing circulating tumour DNA in patients with solid tumours. **Eliades A**, Loizides C, Ioannides M, Achilleos A, Mina P, Tsangaras K, Kypri E, Koumbaris G, Patsalis PC. Cyprus Society of Human Genetics Conference. Nicosia, Cyprus **Selected abstract for oral presentation.**

GRANTS & FELLOWSHIPS

2017-PRESENT

2016-PRESENT

2012-2014

- Member of the Cyprus Society for Human Genetics
- Associate Fellow of the Higher Education Academy, UK
- EMBO Long-term Post-doctoral Fellowship. This fellowship was awarded by the European Molecular Biology Organization to support post-doctoral research on deciphering the origins of hematopoiesis.