

**PERSONAL INFORMATION** Anargyros (Aris) Doukas

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**EDUCATION AND TRAINING**

February 2013-2015

**MSc in Microbial Biotechnology**

Department of Biology of the National and Kapodistrian University of Athens

**Master Thesis** – Title: Construction and characterization of transgenic parasite *Leishmania tarentolae* strains for heterologous expression of the red fluorescent protein mCherry and nucleobase transporter rSNBT1 (from *Rattus norvegicus*) (Grade 10 to 10)

February 2011

**BSc (4 years) in Chemistry**

Department of Chemistry of the National and Kapodistrian University of Athens

**Diploma Thesis** (Sector : Bioinorganic) – Title: Study of the hydrolysis of the complexes cis- and trans-[Ru (DMSO)<sub>4</sub>Cl<sub>2</sub>] in a buffered solution of H<sub>2</sub>PO<sub>4</sub><sup>-</sup>/HPO<sub>4</sub><sup>2-</sup> (Grade 10 to 10)

February 2011

**Certificate Oenological Education**

Sector of Oenology at the Department of Chemistry of the National and Kapodistrian University of Athens

January 2010

**Certificate of Microbiological Laboratory Assistant**

General Military Hospital of Athens, School of health application

June 2002

**High School Diploma**

63<sup>rd</sup> High School of Athens, Greece

1991-2000

**Music studies in violin**

A' above class at Aigaleo Conservatory, Athens, Greece

**WORK EXPERIENCE**

May 2017- today

**Specific Technical Scientist - QA Manager**

Specific Technical Scientist-Quality Assurance Manager in the Quality Control Department, Vaccine Unit, Hellenic Pasteur Institute (HPI)  
127 Vas. Sofias, 11521, Athens, Greece

<http://www.pasteur.gr> <https://www.pasteur.gr/tmima-piotikou-elegchou/>

Concentrated work on physicochemical, microbiological and biological controls of vaccines, pharmaceutical and biological products according to **GMP & ISO:17025/15189** as well as on research programs for the development and production of new products.

August 2016 – March 2017

**Supervisor of Chemical - Oenological Laboratory**

Supervisor of Chemical-Oenological Laboratory at Laboratories Gikas - Gikas Wineries IKE, Chr. Beka 88 - L. Kiafa, Spata, Attica

Concentrated work on Physicochemical and microbiological analysis of wine, water and oil. As well as the quality control of the Winery in which the Chemistry was located.

March 2011 – December 2015

**Research Assistant / Technician**

**Intracellular Parasitism group**, Dep. of Microbiology, Hellenic Pasteur Institute (HPI)  
Athens, Greece

Work focused on the heterologous expression of the mammalian nucleobase transporter rSNBT1 in the LEXSY *Leishmania tarentolae* protein expression system

June 8/2014 – July 31/2014 – September 2015

**Research Trainee**

EMBL-Heidelberg, Genome Biology Unit – Maja Köhn Group

**IKYDA project, Collaboration HPI - EMBL**

**PhosphoLeish**: Molecular characterization of specific phosphatases from the protozoan parasites *Leishmania donovani* and investigation of their importance as potential drug targets.

August 2010 - 2013

**Laboratory Calibrations Supervisor**

SYNERGYcert s.a

21 V. Logothetidi str., 115 24, Ampelokipi, Athens, Greece <http://www.synergycert.gr>

Accredited inspection body, accredited laboratory for calibration-tests

December 2009 - 2010

**Microbiological and biochemical laboratory assistant**

General Military Hospital of Athens /General Military Hospital of Alexandroupolis / Military Hospital of specific thorax diseases, Greece

**PERSONAL SKILLS**

Mother tongue(s)

Greek

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
Expert	Expert	Expert	Expert	Expert

University of Michigan, Proficiency in English

Lower: Good knowledge – Advance: Very good knowledge – Proficiency: Expert

Teaching Experience

- Training and supervising analysts, at Quality Control Department of Vaccines, Drugs and Pharmaceutical Products, at Hellenic Pasteur Institute. (2017-today)
- Training and supervising bachelor and master students in molecular parasitology department, intracellular parasitism group at Hellenic Pasteur Institute. (2014-2016)
- Tutoring of university students in courses of inorganic and organic chemistry. (2010-2019)
- Tutoring of secondary school students (2008-2009)

Computer skills

- ECDL Degree (Microsoft Word, Microsoft Excel, Internet), MS PowerPoint and Isis Draw, Image analysis tools (Fiji-ImageJ, ICY)

Other skills

- Martial arts
- Swimming
- Table tennis

## Laboratory skills

**Quality control of vaccines, pharmaceutical and biological products:**

- Quality Assurance (ISO 17025 και GMP)
- Physicochemical testing according to Eu. Pharmacopoeia
- Microbiological testing (Sterility, Endotoxin, Mycoplasma etc) according to Eu. Pharmacopoeia
- Biological testing (Sterility, Endotoxin, Mycoplasma etc) according to Eu. Pharmacopoeia
- In house diagnostic methods for Tetanus / Diphtheria / Pertussis

**Parasitology:**

- Protozoa (*Leishmania*) cell culture
- Transfection of *Leishmania* parasites with plasmid vectors or linear DNA
- Lab animal manipulation (Infection in rats and rabbits)

**Protein Purification:**

- Purification of proteins by affinity chromatography
- Purification of antibodies by affinity chromatography
- Protein purification (FPLC)

**Microscopy:**

- Immunofluorescence
- Confocal Fluorescence Microscopy

**Biochemistry / Chemistry:**

- Uptake assays with radioisotopes
- Phosphatase assays with radioisotopes
- Recombinant protein production in bacteria and parasites
- Protein Immunoblotting (Western Blot)
- Protein analysis by SDS PAGE
- Analysis of the rate of hydrolysis of active substance, reaction mode and stereochemical structure that reacts better and faster with the target biomolecule (DNA)
- All Analytical techniques for quality control
- Preparation, isolation and purification of active substance in a pharmaceutical composition with anticancer properties

**Molecular and Cell Biology:**

- Molecular cloning of recombinant DNA
- FACS

**Medical diagnostic tests:**

- Calibration, validation and handling of all the laboratory machines
- Toxicological, biochemical and immunological tests
- Urine, fecal, sperm analysis
- Taking of blood samples from patients
- Preparation, isolation and purification of active substance in a pharmaceutical composition with anticancer properties

## ADDITIONAL INFORMATION

## Scholarships

- Visiting scientist grand (IKY and DAAD)

## Publications

- Anargyros Doukas et al 2019, Heterologous expression of the mammalian sodium-nucleobase transporter rSNBT1 in *Leishmania tarentolae*. BBA-Biomembranes 1861, Elsevier.
- Papadaki A et al 2021, The *Leishmania donovani* LDBPK\_220120.1 Gene Encodes for an Atypical Dual Specificity Lipid-Like Phosphatase Expressed in Promastigotes and Amastigotes; Substrate Specificity, Intracellular Localizations, and Putative Role(s), PubMed

## Participated Projects

- **EVOTRANS:** Heterologous expression of mammalian nucleobase transporters in the *Leishmania tarentolae* parasites for functional and structural characterization.  
*Funded by the Greek Ministry of Education*
- **PhosphoLeish:** Molecular characterization of specific phosphatases from the protozoan parasites *Leishmania donovani* and investigation of their importance as potential drug targets.  
*Funded by the Greek State scholarship foundation IKY and the German DAAD*

## Participation in Scientific Societies

- Association of Greek Chemists
- European Association for Qualified Person
- ECA (European Compliance Academy for GMP)
- Hellenic Laboratories Association (HellasLab) national member of EUROLAB (www.eurolab.org)

## Seminars

- Educational seminar on **Investigational Medicinal Products (IMP) QP Education Course**. The seminar was conducted by European QP Association. 20/03/2019
- Educational seminar on **“Workshop for the transition to the new version of the accreditation standard of ELOT EN ISO / IEC 17025 laboratories”**. Hellenic Laboratories Association (Hellas Lab). 15/09/2018
- Educational seminar on **“Health and Safety at Work”**. The seminar was conducted by Ministry of Labor - General Directorate of Labor Relations, Health & Safety at Work. 14/09/2018
- Educational seminar on **“ISO 45001: 2018 - OCCUPATIONAL HEALTH AND SAFETY (TRANSITION FROM OHSAS 18001: 2007)**. The seminar was conducted by TÜV HELLAS. 30/03/2018
- Educational seminar on **METROLOGY ELEMENTS: APPLICATION IN TESTING AND CALIBRATION LABORATORIES**. 18/03/2018
- Educational seminar on **“Workshop for the transition to the new version of the ELOT EN ISO / IEC 17025 laboratory accreditation standard”**. The seminar was conducted by Hellenic Laboratories Association (Hellas Lab). 17/03/2018
- Educational seminar on **ELOT EN ISO / IEC FOOD MICROBIOLOGY**. The seminar was conducted by TÜV HELLAS. 08-09/03/2018
- Educational seminar on **ELOT EN ISO / IEC 17025: 2017 COMPLIANCE REQUIREMENTS**. The seminar was conducted by TÜV HELLAS. 20-21/02/2018
- Educational seminar on **SPECIAL ISSUES FOR THE IMPLEMENTATION OF THE INTERNATIONAL ELOT STANDARD EN ISO / IEC 17025: 2005 FOR THE METHOD VALIDATION OF TESTING LABORATORIES**. The seminar was conducted by the accredited consultant of the Hellenic Pasteur Institute (HPI). 25-26/01/2018
- Educational seminar on **ELOT EN ISO / IEC 15189: 2012 MEDICAL LABORATORIES - QUALITY & ABILITY REQUIREMENTS**. The seminar was conducted by TÜV HELLAS. 16-17/11/2017
- Educational seminar on **INTERNAL INSPECTION TECHNIQUES FOR ACCREDITATION OF TESTING AND CALIBRATION LABORATORIES**. The seminar was conducted by the accredited consultant of the Hellenic Pasteur Institute (HPI). 30/06/2017
- Educational seminar on **ACCREDITATION REQUIREMENTS OF THE INTERNATIONAL ELOT STANDARD EN ISO / IEC 17025: 2005 FOR THE ACCREDITATION OF TESTING AND CALIBRATION LABORATORIES**. The seminar was conducted by the accredited consultant of the Hellenic Pasteur Institute (HPI). 29-30/06/2017
- Educational seminar on **FACILITY TEST LABORATORY SCHEMES ISO / IEC 17043: 2010 & ISO 13528: 2015**. The seminar was conducted by E.E.X. 13/05/2017
- Educational seminar on **Laboratory & On-line measurements of pH, Oxygen, turbidity, COD, BOD, NH4, NO3, Sludge Level in water, wastewater & waste**. The seminar was conducted by the company Metrolab. 14/03/2017
- Educational seminar on **Introduction to statistical analysis of biomedical data with practical application in PC**. The seminar was conducted by the Medical School, Kapodistrian University of Athens. 24-25/11 & 1-2/12 2017
- Educational seminar on **Environmental Licensing of Projects and Activities**. The seminar was conducted by the Regional Department of Attica & Cyclades of Association of Greek Chemists, with the "Observatory for the Professional Occupation of Chemists" 25/05/2017
- Educational seminar on **Interlaboratory proficiency testing schemes - ISO / IEC 17043 Requirements: 2010 and ISO 13528: 2015**. The seminar was conducted by the Regional Department of Attica & Cyclades of Association of Greek Chemists, with the "Observatory for the Professional Occupation of Chemists" in collaboration with the General State Chemist Agency, Metrology Department. 13/ 05/ 2017

## Seminars

- Educational seminar on **ISO 22000: 2005 - BASIC PRINCIPLES OF FOOD SAFETY MANAGEMENT SYSTEMS**. The seminar was conducted by the Regional Department of Attica & Cyclades of Association of Greek Chemists, with the "Observatory for Professional Occupation of Chemists" in cooperation with TÜV HELLAS. 3-4/06/2017
- Educational seminar on **advanced biotechnological applications in biomedical translational research and bioeconomy** of Bionian Academy in cooperation with the IC.I. (Institute for Clinical Investigation) (27/11-6/12 2013)
- **'Digital image processing / analysis tools in Light Microscopy**: From the basics and beyond'. RIPP regional course organized at the Hellenic Pasteur Institute, Athens, Greece (10-17/6 2013)
- Workshop on **"Laboratory Animals and Daily Practice"** related to the operation of the Department of animal models of the Hellenic Pasteur Institute and the basic ethical principles of Laboratory Animal Management in accordance with the instructions of the Greek and European Legislation " For protection and Use of Laboratory Animals " and the Federation of European Laboratory Animal Science Association (FELASA) (14/12/2012)
- Training Seminar on **Molecular Diagnosis of Infectious and Genetic Diseases**. Organized by the Greek National association of Bioscientists (31 /5 - 3/6 2012)
- Study of **cellular organization with modern Fluorescence microscopy techniques** (Postgraduate Biochemistry, Department of Chemistry University of Athens) (2012)
- Education seminar on **atomic and molecular spectroscopy, sample preparation and porosimetry measurement - specific surface area**, from Agilent Technologies, Milestone Srl & Micromeritics (18/1-19/1 2012)

## Conferences

- **Presentation & Poster**: 66<sup>th</sup> National Conference of the Greek Society in Biochemistry & Molecular Biology, Athens, 11 – 13<sup>th</sup> of December 2015  
**Title**: "Biochemical Characterization and Subcellular Localization of the Tyrosine and Phosphoinositide Dual Specificity Phosphatase LdTyrPIP22, a potential drug target from *Leishmania donovani*."  
 Amalia Papadaki<sup>1</sup>, Anastasia Kotopoulia<sup>1</sup>, **Anargyros Doukas**<sup>1</sup>, Pablos Rios<sup>3</sup>, Olivia Tziouvara<sup>1</sup>, *Maja Köhn*<sup>3</sup>, Haralabia Boleti<sup>1,2</sup>  
*<sup>1</sup>Intracellular Parasitism group, Department of Microbiology, Hellenic Pasteur Institute, Athens, Greece*  
*<sup>2</sup>Light Microscopy unit, Hellenic Pasteur Institute, Athens, Greece*  
*<sup>3</sup>Köhn Group, Genome Biology Research Unit, European Molecular Biology Laboratory, Heidelberg, Germany*
- **Poster**: 64<sup>th</sup> National Conference of the Greek Society in Biochemistry & Molecular Biology, Athens, 6 – 8<sup>th</sup> of December 2013  
**Title**: "Heterologous expression of the mammalian nucleobase transporter rSNBT1 in the LEXSY *Leishmania tarentolae* protein expression system for functional and structural characterization."  
**Doukas Anargyros**<sup>1</sup>, Papadaki Amalia<sup>1</sup>, Papakostas Konstantinos<sup>3</sup>, Frilingos Efstathios<sup>3</sup>, Boleti Haralabia<sup>1,2</sup>  
*<sup>1</sup>Intracellular Parasitism group, Department of Microbiology, Hellenic Pasteur Institute, Athens, Greece*  
*<sup>2</sup>Light Microscopy unit, Hellenic Pasteur Institute, Athens, Greece*  
*<sup>3</sup>Section of Functional Sciences, Department of Medicine, University of Ioannina, Greece*
- **Poster**: COST ACTION CM0801 - 4<sup>th</sup> ANNUAL MEETING, Crete, September 19-21, 2012  
**Title**: "Study of specific *Leishmania* Atypical Lipid Phosphatases (ALPs) as putative virulence factors for parasite survival in host phagocytes and as potential drug targets"  
 Anastasia Kotopoulia<sup>&</sup>, Amalia Papadaki<sup>a</sup>, **Aris Doukas**<sup>a</sup>, Ntia Galanopoulou<sup>&</sup>, Haralabia Boleti<sup>ab</sup>  
*<sup>a</sup>Intracellular Parasitism Group-Department of Microbiology and <sup>b</sup>Light microscopy Unit Hellenic Pasteur Institute, Vas. Sofias 127, Athens, 11521-Greece*  
*<sup>&</sup> Chemistry Dep. of Kapodistrian University of Athens, Biochemistry Department*