

Mary-Patricia Yannakakis

Curriculum Vitae

PERSONAL INFORMATION

Date of Birth : November 13, 1989
Place of Birth : Chios, Greece
Nationality : Hellenic, British
Email : yannakakism@gmail.com

EDUCATION

April 2013 – until now:

PhD student, Department of Chemistry, University of Patras

Title: *“Conformational Analysis, Rational Design and Synthesis of peptide mimetic analogues based on the trimolecular complex involved in Multiple Sclerosis”*

Supervisor: Assoc. Prof. Theodoros V. Tselios

November 2011- April 2013:

MSc: “Medicinal Chemistry: Drug Design and Development”, University of Patras, Department of Chemistry, Pharmacy & Medicine

(Grade: 9.54/10, Excellent)

Master Thesis: *“Design of peptide mimetics based on the conformational demands and interactions between the T-cell receptor (TCR) that is involved in Multiple Sclerosis and the immunodominant epitope of the Myelin Basic Protein (MBP)”*

Supervisor: Assis. Prof. Theodoros V. Tselios

2007-2011: **Diploma in Chemistry**, Department of Chemistry, University of Patras, Greece

(Grade: 7.54/10, Very Good)

Diploma thesis: *“Design of peptidomimetic molecules based on the trimolecular complex MHC II- antigen- TCR, related to Multiple Sclerosis”*

Supervisor: : Assis. Prof. Theodoros V. Tselios

PUBLICATIONS

Mary Patricia Yannakakis, Haralambos Tzoupis, Elena Michailidou, Efthimia Mantzourani, Carmen Simal, Theodore Tselios, Molecular Dynamics at the Receptor Level of Immunodominant Myelin Oligodendrocyte Glycoprotein 35-55 Epitope Implicated in Multiple Sclerosis, Journal of Molecular Graphics and Modelling, 2016, Accepted

ATTENDANCE AT CONFERENCES

April 2016: ISO/IEC 17025:2005, General requirements for the competence of testing and calibration laboratories

November 2015: 15th Conference of « Medicinal Chemistry: Design and Development of Pharmaceutical Products», Patras, Greece (**Poster Presentation**)

Title: *Rational Design of non-peptide mimetics based on the trimolecular complex HLA/MBP83-96/TCR involved in MS*

June 2015: **a)** CMTPI 2015-8th International Symposium on Computational Methods in Toxicology and Pharmacology Integrating Internet Resources, Chios, Greece (**Oral Presentation**) **b)** NMR Applications in Life Sciences, Exploring Peptides & Proteins, Patras, Greece (**Poster Presentation**)

Title: *Rational Design of Non-Peptide Mimetic Ligands based on the Trimolecular Complex involved in Multiple Sclerosis*

May 2014: "Trends in Drug Research", Limassol, Cyprus (**Oral Presentation**)

Title: *Structure-Based Design of Non-Peptide Mimetics for the Treatment of Multiple Sclerosis*

October 2013: Seminar «New Techniques in Drug Design». National Hellenic Research Institute, Athens, Greece

July 2013: International Workshop: Powder & Electron Crystallography, Patras, Greece

May 2013: **a)** 14th Conference of « Medicinal Chemistry: Design and Development of Pharmaceutical Products», **b)** 2nd FP7 Seedrug-Workshop, **c)** Seminar in Hygiene and Safety

September 2012: 32 EPS (European Peptide Symposium), Athens, Greece

April 2012: **a)** 13th Conference of « Medicinal Chemistry: Design and Development of Pharmaceutical Products», Patras, Greece, **b)** 1st FP7 Seedrug-Workshop

April 2011, April 2010, March 2009, March 2008: 12th, 11th, 10th & 9th Conference of « Medicinal Chemistry: Design and Development of Pharmaceutical Products», Patras, Greece

LABORATORY EXPERIENCE

- Molecular Modelling (Dynamics, Docking, QM/MM)
- Ligand-Based Drug Design
- Structure-Based Drug Design
- Pharmacophore Modelling
- Organic Synthesis of small molecules (HPLC, Mass Spec., Column Chromatography, NMR)

LANGUAGES

- Greek : native language
- English : Level C2 (Proficiency)
- French : Level C1 (Advanced)

MEMBER OF PROFESSIONAL ASSOCIATIONS OR UNIONS

- Member of the Association of Greek Chemists

COMPUTER SKILLS

- ECDL (Microsoft Office, 7 Units)
- Molecular Modelling Software (AMBER, MOE, LigandScout, MOPAC, Gaussian)