

Golfo G. Kordopati

Post Doctoral Researcher

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Place and date of birth: Mesolonghi, Greece – 13/08/1989

EDUCATION

- 2014 – 2019:** **Ph.D.** in Organic and Supramolecular Chemistry, Department of Chemistry, University of Patras, Greece
Supervisor: Associate Professor Gerasimos M. Tsivgoulis
- 2011 – 2013:** **M.Sc.** in Medicinal Chemistry: Drug Design and Development, Departments of Chemistry and Pharmacy, University of Patras, Greece
Supervisor: Associate Professor Gerasimos M. Tsivgoulis
Grade: 9.25/10 (Excellent)
- 2007-2011:** **B.Sc. in Chemistry**, Department of Chemistry, University of Patras, Greece
Supervisor: Associate Professor Theodore Tselios
Grade: 7.66/10 (Very Good)

RESEARCH EXPERIENCE

- 02/2019 –** **Post Doctoral Researcher** (funded by Hellenic Foundation for Research and Innovation), University of Patras, Department of Pharmacy, Greece
Project: a-synuclein prion-like particles: in vivo turnover and infectivity
Principal Investigator: Assistant Professor Georgios Pampalakis
- 03-07/2017** **Visiting researcher-Erasmus student**, Department of Biomolecular Structure, National Institute of Chemistry, Slovenia (Fellowship from Erasmus+ studies program)
Project: Study of bioactive molecules and their conjugates with cyclodextrins via NMR spectroscopy (Experimental project under PhD thesis)
Supervisor: Professor Simona Golic Grdadolnik
- 04-09/2015** **Participation in the implementation of a research program**
Project: A novel combined approach for the Immunotherapy of Multiple Sclerosis (funded by Greek General Secretariat of Research and Technology) (funded by Greek General Secretariat of Research and Technology)
Principal Investigator: Associate Professor T. Tselios
- 2011-2015** **Participation in the implementation of a research program**
Project: Pre-clinical and Toxicology Evaluation of Immunodominant Myelin Peptides/Mimetics Conjugated with Mannan towards Clinical Phase I-II Studies: A Potential Therapeutic Vaccine Drug in the Treatment of Multiple Sclerosis (MS) (funded by Greek General Secretariat of Research and Technology)
Cooperation Program Collaborator: Associate Professor T. Tselios

08/2012 **Short-term Visiting researcher**, Department of Biomolecular Structure, National Institute of Chemistry, Slovenia (Fellowship from 7th Framework Program of the EC, Project number: 261863, Bio-NMR)
Supervisor: Professor Simona Golic Grdadolnik

06/2012 **Short-term Visiting researcher**, Department of Chemistry, University of Florence, Italy
Project: Seminar on new techniques regarding peptide synthesis of Myelin antigens (Microwave-assisted Synthesizers)
Supervisor: Associate Professor Anna-Maria Papini

LANGUAGES

Greek: native Language, **English:** Level B2 (Lower)

TEACHING EXPERIENCE

2012-2014 Teaching Assistant

Courses:

- Experimental Organic Chemistry I – Dept. of Chemistry, University of Patras, Greece (Undergraduate program)
- Experimental Organic Chemistry II – Dept. of Chemistry, University of Patras, Greece (Undergraduate program)

MEMBER OF PROFESSIONAL ASSOCIATIONS OR UNIONS

Member of the Association of Greek Chemists, European Peptide Society

OTHER RELEVANT DETAILS

Laboratory Experience

Organic synthesis, Supramolecular chemistry (Cyclodextrins), Solid Phase Peptide Synthesis, Recombinant protein expression and purification (yeast and bacterial cells)

Technical skills

Microscale reactions, Reactions under anhydrous or/and inert atmosphere, Thin-Layer Chromatography (TLC), Preparative Thin-Layer Chromatography, NMR spectroscopy [1D and 2D (COSY, NOESY, TOCSY, HSQC, HMBC)] for a) characterization of compounds and b) conformation analysis (intra- and inter-molecular interaction), Column Chromatography (silica gel and C18-reversed phase silica gel), Reverse-Phase Thin-Layer Chromatography (RP TLC), Ion Exchange Chromatography (anion and cation), High Performance Liquid Chromatography (HPLC) (analytical, semipreparative and preparative), Fast Protein Liquid Purification (FPLC), UV-Vis spectroscopy, Electrospray Ionization Mass Spectrometry (ESI MS), Matrix-Assisted Laser Desorption/Ionization – Time-Of-Flight Mass Spectrometry (MALDI/TOF MS), Pichia Transformation, Polymerase Chain Reaction (PCR), SDS-PAGE, Western Blotting

Computing skills

Word (excellent), Powerpoint (excellent), Excel (very good), Mnova (excellent), ChemDraw (excellent), Origin (very good), Corel Draw and Corel Paint (excellent)

PUBLICATIONS

1. **G. G. Kordopati**, T. V. Tselios, T. Kellici, F. Merzel, T. Mavromoustakos, S. Golic Grdadolnik, G. M. Tsvigoulis, A novel synthetic luteinizing hormone-releasing hormone (LHRH) analogue coupled with modified β -

cyclodextrin: Insight into its intramolecular interactions, *Biochimica et Biophysica Acta*, 2015, **1850**, 159-168.

2. D. Ntountaniotis, M. Vanioti, **G. G. Kordopati**, T. F. Kellici, K. D. Marousis, T. Mavromoustakos, G. A. Spyroulias, S. Golic Grdadolnik, T. V. Tselios, A combined NMR and molecular dynamics simulation study to determine the conformational properties of rat/mouse 35-55 Myelin Oligodendrocyte Glycoprotein epitope implicated in the induction of Experimental Autoimmune Encephalomyelitis, *Journal of Biomolecular Structure & Dynamics*, 2017, **35 (7)**, 1599-1567
3. G. M. Tsivgoulis, **G. G. Kordopati**, D. G. Vachliotis, P. V. Ioannou, The Reaction of Diethylthiophosphinyl Iodide, Et₂P(S)I, with Nucleophiles, *Zeitschrift für anorganische und allgemeine Chemie*, 2017, **643 (16)**, 1075-1081.
4. **G. G. Kordopati**, H. Tzoupis, A. N. Troganis, G. M. Tsivgoulis, S. Golic Grdadolnik, C. Simal, T. V. Tselios, Biologically Relevant Conformational Features of Linear and Cyclic Proteolipid Protein (PLP) Peptide Analogues Obtained by High-Resolution Nuclear Magnetic Resonance and Molecular Dynamics, *Journal of Computer-Aided Molecular Design*, 2017, **31 (9)**, 841-854.
5. **G. G. Kordopati**, G. M. Tsivgoulis, Amino cyclodextrin per-O-methylation: Synthesis of 3-monoamino-permethylated derivatives, *Tetrahedron Letters*, 2018, **59 (25)**, 2447-2449.

ATTENDANCE AT CONFERENCES/SUMMER SCHOOLS

- **Summer School NCSR "Demokritos"**, July 2011, Athens, Greece,
Subject areas: *Basic Research in Physical Sciences and Advanced Materials, Micro-Nanotechnology & Conditions*
- **32nd European Peptide Symposium**, 2-7 September 2012, Athens, Greece
- **International Workshop 2: Powder & Electron Crystallography**, 8-12 July 2013, Patras, Greece
- **3rd Annual User group Meeting of BioNMR: NMR and protein dynamics in structural biology**, 10 - 13 June 2013, Budapest, Hungary
Title: *Synthesis and interaction studies using NMR spectroscopy of β -cyclodextrin: LHRH analogue conjugate (poster presentation)*
- **Synthetic and Medicinal Chemistry Symposium**, 12-17 May 2014, Patras, Greece
Title: *Conformational studies of LHRH analogue conjugated with β -cyclodextrin using 2D NMR and Molecular Modeling (oral presentation)*
- **Trends in drug research, 32nd Cyprus-Noordwijkerhout-Camerino Symposium**, 18-22 May 2014, Limassol, Cyprus
Title: *Conformational studies of LHRH analogue conjugated with cyclodextrin using 2D NMR and Molecular Modeling (oral presentation)*
- **33rd European Peptide Symposium**, 31 August-5 September 2014, Sofia, Bulgaria,
Title: *Design and synthesis of Luteinizing Hormone Releasing Hormone analogue conjugated with cyclodextrin (poster presentation)*
- **NMR Applications in Life Sciences**, 17-20 June 2015, Patras, Greece,

Title: *β -Cyclodextrin Peptide Conjugate: Study of the intramolecular interactions by NMR and molecular modeling (oral presentation)*

- **34th European Peptide Symposium**, 4-9 September 2016, Leipzig, Germany,
Title: *NMR and molecular dynamics conformational analysis of proteolipid protein (PLP) peptide analogues*
(poster presentation)

MISCELLANEOUS PUBLICATIONS

Ph.D. thesis: Synthesis and study of bioactive molecules and their conjugates with cyclodextrins (February 2019)

M.Sc. thesis: Synthesis and conformational studies using Nuclear Magnetic Resonance (NMR) of a Leuprolide analogue conjugated with modified beta-cyclodextrin,

B.Sc. thesis: Synthesis of a non-peptide mimetic of the Myelin Basic Protein 87-99 epitope,

REFERENCES

- Associate Professor Gerasimos M. Tsivgoulis,
Dept. of Chemistry, University of Patras (Greece)
e-mail: tsivgoulis@chemistry.upatras.gr
- Professor Simona Golic Grdadolnik
Dept. of Biomolecular Structure, National Institute of Chemistry (Slovenia)
e-mail: simona.grdadolnik@ki.si