

## **Curriculum Vitae**

**LEONIS Georgios, Ph.D**

**Post-doctoral researcher**

Institute of Organic and Pharmaceutical Chemistry

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## **Area of specialization**

Computational bio-physical chemistry, drug design.

## **Education**

Ph.D. in Physical Chemistry, 2008, Department of Chemistry and Quantum Theory Project, University of Florida, Gainesville, FL, U.S.A.

Title: Theoretical Studies on Structure-Activity Relationships of FLP Neuropeptides.

BS in Chemistry, National and Kapodistrian University of Athens, Greece, 2002. Specialization in physical chemistry; thesis on quantum chemistry.

Title: Applications of Density Functional Theory.

## **Research Experience**

- 2010– , Post-doctoral researcher, Institute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens, Greece.
- 2008 – 2009, Chemist in charge of the fuel laboratory in Rhodes, Greece, Hellenic Army.
- 2002 – 2008, Research Assistant, Department of Chemistry and Quantum Theory Project, University of Florida.
- 2000 (June – August), Researcher (chemical analyses of ceramics, glasses, industrial products and wastes), Institute of Geological and Mineral Exploration, Division of Analytical Laboratories, Athens, Greece.
- 1999 (June – August), Research assistant (chemical analyses of waters and rocks), Institute of Geological and Mineral Exploration, Division of Analytical Laboratories, Athens, Greece.

- 1998 (July – August), Research assistant (biochemical studies of opioids), Department of Endocrinology, College of Medicine, University of Crete, Greece.

### **Teaching Experience**

- General Chemistry, Fall 2002 – Summer 2004 and Spring 2005 – Summer 2008, University of Florida.
- Biophysical Chemistry, Fall 2005, University of Florida.
- Physical Chemistry, Fall 2004, University of Florida.
- Private tutoring experience in Chemistry, Physics and Mathematics, 1996–2001, Athens, Greece.

### **Quality Systems Experience**

- Services and Activities Certification ISO 9001
- Laboratory Accreditation ISO/IEC 17025

### **Previous Employment**

- 2010– , National Hellenic Research Foundation, Athens, Greece.
- 2002– 2008, University of Florida (research and teaching).
- Summer 2000 and Summer 1999, Institute of Geological and Mineral Exploration, Athens, Greece.
- Summer 1998, University of Crete, Greece.
- 1996–2001, Private tutoring, Athens, Greece.

### **Military Service**

- Hellenic Army, 2008 – 2009.

### **Awards and Honors**

- Excellence in Teaching Award, Department of Chemistry, University of Florida, 2004.
- Graduate Student Council Travel Grant, University of Florida, 2006, 2007.
- Chemical Physics Center Travel Award, University of Florida, 2006.

- Graduate Fellowship, University of Florida, 2003 – 2004.

### **Professional Societies**

- American Chemical Society, member, 2006 – Present.

### **Posters presented**

- “Structure-Activity Relationships in FF neuropeptide”, *235<sup>th</sup> American Chemical Society National Meeting*, New Orleans, LA, April 2008.
- “Conformational Diversity in *C. elegans* derived neuropeptides”, *Panamerican Workshop in Quantum Chemistry*, Cuernavaca, Mexico, November 2007.
- “FLPs: Exploring their conformational flexibility”, *ACS Florida Section, Florida Annual Meeting and Exposition*, Orlando, FL, April 2007.
- “Structure-Activity Relationships of FLPs Neuropeptides”, *47<sup>th</sup> Sanibel Symposium*, St. Simons Island, GA, February 2007.
- “Computational Analysis of Conformational Diversity of FLPs”, *231<sup>st</sup> American Chemical Society National Meeting*, Atlanta, GA, March 2006.
- “DFDGAM $\alpha$  neuropeptide: Exploring its structural flexibility”, *46<sup>th</sup> Sanibel Symposium*, St. Simons Island, GA, February 2006.
- “*C. elegans* and related neuropeptides”, *45<sup>th</sup> Sanibel Symposium*, St. Simons Island, GA, February 2005.

### **Oral Presentations**

- “Structure-Activity Relationships in FF Neuropeptide”, *235<sup>th</sup> American Chemical Society National Meeting*, New Orleans, LA, April 2008.
- “NPFF Neuropeptide”, *48<sup>th</sup> Sanibel Symposium*, St. Simons Island, GA, February 2008.

- “Mechanism of Selectivity in Aquaporins and Aquaglyceroporins”, *Biophysical Journal Club*, University of Florida, January 2008.
- “Conformational Entropy of Alanine versus Glycine”, *Biophysical Journal Club*, University of Florida, January 2008.
- “Structure-Activity Relationships of FLPs Neuropeptides”, *47<sup>th</sup> Sanibel Symposium*, St. Simons Island, GA, February 2007.
- “Conformational Diversity in Neuropeptides”, *Physical Chemistry Divisional Seminar*, University of Florida, February 2006.
- “Conformational Diversity in Neuropeptides”, *Qualifying Examination*, Division of Physical Chemistry, University of Florida, June 2006.
- “DFDGAM neuropeptide: Exploring its structural flexibility”, *46<sup>th</sup> Sanibel Symposium*, St. Simons Island, GA, March 2006.
- “Parallel Tempering Algorithm for Conformational Studies of Biological Molecules”, *Physical Chemistry Divisional Seminar*, University of Florida, March 2005.
- “Hydrophobic Collapse in Multidomain Protein Folding”, *Biophysical Journal Club*, University of Florida, April 2005.

### **Relevant Coursework**

- Presiding in the Theoretical and Computational Chemistry Division of the 231<sup>st</sup> American Chemical Society National Meeting in Atlanta, GA, March 2006.

### **Papers in preparation**

- “Alternative entering pathways of fullerene derivatives into HIV-1 protease cavity”.
- “Structure-Activity Relationships of *C. elegans* neuropeptides”.
- “Diversity in FLP Neuropeptides: NPFF neuropeptide”.
- “The role of mammalian FLPs in pain modulation”.

### **Conferences**

- *235<sup>th</sup> ACS National Meeting and Exposition*, New Orleans, LA, April 2008.
- *48<sup>th</sup> Sanibel Symposium*, St. Simons Island, GA, February 2008.
- *Panamerican Workshop in Quantum Chemistry*, Cuernavaca, Mexico, November 2007.
- *ACS Florida Annual Meeting and Exposition*, Orlando, FL, April 2007.
- *47<sup>th</sup> Sanibel Symposium*, St. Simons Island, GA, February 2007.
- *231<sup>st</sup> ACS National Meeting*, Atlanta, GA, March 2006.
- *46<sup>th</sup> Sanibel Symposium*, St. Simons Island, GA, February 2006.
- *45<sup>th</sup> Sanibel Symposium*, St. Simons Island, GA, February 2005.
- *44<sup>th</sup> Sanibel Symposium*, St. Augustine, FL, February 2004.
- *8<sup>th</sup> European Workshop on Quantum Systems in Chemistry and Physics*, Island of Spetses, Greece, September 2003.

## **Training**

- *Modeling Proteins and Nucleic Acids with AMBER*, Pittsburgh Supercomputing Center, Pittsburgh, PA, June 2005.

## **Language Proficiency**

- Greek: Fluent (Native language).
- English: Fluent (US resident for over 6 years, Ph.D).
- French: Very good (DELFL, Supérieur I, Sorbonne I).