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### **Biographical Sketch**

1974 (1975: year of award): BSc Degree in Chemistry, Aristotle Univ. of Thessaloniki.

1974-1977: Military service.

1977: 3 years fellowship from the Greek Scholarship Foundation for postgraduate studies in England.

1978 (1979: year of award): MSc degree in Chemical Spectroscopy in the School of Chemical Sciences, University of East Anglia. Title: Natural Abundance Oxygen-17 Fourier Transform NMR Studies, pp.1-196.

1980 (1981: year of award): PhD thesis, School of Chemical Sciences, University of East Anglia. Title: Studies of  $^{17}\text{O}$  NMR Spectroscopy, pp.1-259.

1980: Postdoctorate fellowship from the "Swiss Fond National" for NMR Biophysical Research in the University of Lausanne, Institute of Organic Chemistry.

1981-1984: "Premier Assistant", University of Lausanne, Institute of Organic Chemistry.

1984: Lecturer, Section of Physical Chemistry, Department of Chemistry, School of Natural Sciences, University of Ioannina, Greece.

1986: Assistant Professor, Section of Organic Chemistry and Biochemistry, Department of Chemistry, University of Ioannina, Greece.

1990: Associate Professor in the same Department.

October 1994: Honorary Research Fellow of the Queen Mary College, Univ. of London.

September 1997: Full Professor, Department of Chemistry, University of Ioannina.

September 1997-August 2000: Head of the Section of Organic Chemistry and Biochemistry, Department of Chemistry, University of Ioannina.

September 1998-August 2000: Vice Chairman of the Department of Chemistry.

September 2000-August 2004: Chairman of the Department of Chemistry.

September 2003-August 2006: Vice Rector of the University of Ioannina.

September 2006-August 2010: Rector of the University of Ioannina.

September 2010-today: Member of the Hellenic Quality Assurance Agency for Higher Education (HQAA).

July 2011: DSc, University of East Anglia.

### **Fellowships and Awards**

1. September 1977-July 1980: Greek Scholarship Foundation, University of East Anglia, England.
2. March 1979: Price for the best MSc thesis submitted in Chemical Spectroscopy in the School of Chemical Sciences, University of East Anglia, England.
3. July 1980-September 1980: NATO Research Fellowship, University of East Anglia, England.

4. September 1980-June 1981: Research Postdoctorate Fellowship, Swiss Scientific Research Council, University of Lausanne, Switzerland.
5. June 1984-August 1984: EMBO Short Term Fellowship, University of Lausanne, Switzerland.
6. July 1985-September 1985: EMBO Short Term Fellowship, CNRS, Nancy, France.
7. June 1986-August 1986: EMBO Short Term Fellowship, CNRS, Nancy, France.
8. June 1987-September 1987: FEBS Short Term Fellowship, CNRS, Nancy, France.
9. June 1988: EEC Short Term Fellowship, Institute Curie, Orsay, France.
10. July 1988-August 1988: EMBO Short Term Fellowship, CNRS, Nancy, France.
11. July 1989-September 1989: DAAD Short Term Fellowship, Max Planck Institut, Mülheim, a.d. Ruhr, Germany.
12. July 1990-August 1990: FEBS Short Term Fellowship, Max Planck Institut, Mülheim, a.d. Ruhr, Germany.
13. November 1990-April 1991: Wellcome Trust Fellowship, National Institute of Medical Research, London, England.
14. Summer 1992, 1993, 1994: NATO Collaborative Grant, Institut Curie, Section de Biologie, Orsay, France.
15. Summer 1995, 1996: EEC Grant, QMW College, London, England.
16. Summer 1999, 2000, 2001: Collaborative Greece-Italy Program and NATO Grant, University of Florence, Italy.
17. September 2011: Grant from the Greek Ministry of Education and DAAD, University of Leipzig, Germany.

### **Current Research Interests**

#### **Bioorganic Chemistry, Medicinal Chemistry and Structural Biology**

1. Multinuclear and multidimensional NMR studies in solution of: a) the angiotensin converting enzyme (ACE) and synthetic polypeptide model compounds; b) Myelin Basic Protein Epitopes (MBP); c) Mapping of protein-ligand and ligand-receptor interactions through flexible docking calculations (implications to ACE and angiotensin II- AT1 receptor).
2. Determination of the three dimensional structures of peptide hormones in solution by the use of NMR and molecular dynamics calculations-investigation of solvation-hydration phenomena of cis/trans amides, model peptides and peptide hormones - origin of cis isomer stabilization in proteins.
3. Multidisciplinary approach for decoding the chemoprevention mechanism of biophenols from plant natural products: isolation, structure analysis and biological evaluation.

#### **NMR Structural Studies and Analytical Applications in Natural Products Chemistry and Food Chemistry**

1. Identification and quantitative evaluation of natural products in complex plant extracts of Greek flora, and of the lipid fraction of milk and cheese by the use of high resolution one- and two- dimensional NMR (COSY, TOCSY, NOESY, ROESY), Mass Spectrometry and HPLC methods.
2. Development of hyphenated (coupled) methodologies of HPLC and NMR Spectroscopy and Chemically Induced Dynamic Nuclear Polarization (CIDNP) NMR Spectroscopy.
3. Rapid NMR and multidimensional fingerprint identification and quantification of crude edible plant extracts of Greek flora.

#### **Publications in International Journals**

One hundred fourteen (114) publications, with a total impact factor of the journals of ~400 and a mean impact factor per journal of ~3.71. Total number of references over 1640 (web of science), 1260 without self citations, h-factor: 22.

## **Publications in Proceeding of International Conferences**

Fifty two (52) publications.

### **Author/Editor of Books**

1. "Spectroscopy of Organic Compounds", I.P. Gerothanassis, Greek Open University, pp. 1-122 (2000), in Greek.
2. "Natural Antioxidant Phenols. Sources, Structure, Structure – Activity Relationship, Current Trends in Analysis and Characterization". D. Boskou, I.P. Gerothanassis and P. Kefalas (Eds), Research Signpost: Kerala, India, 2006.

### **Reviewer- Advisory Board**

Reviewer of more than thirty (30) international journals. Member of Editorial Advisory Board of the journals:

- i. "The Open Natural Products Journal", Bentham Open, ISSN, 187A-8481.
- ii. "International Journal of Green Pharmacy", Med. Know.

### **Supervision of PhD and MSc Students-Current Research Group**

Ten (10) PhD students and nine (9) MSc students have completed their thesis under my supervision. Three (3) of my former PhD students followed an academic career (one of them is Associate Professor in USA). My current research group consists of:

### **Committees (in the last five (5) years)**

1. Coordination Committee of the National Postdoctorate Program "PYTHAGORAS", Greek Ministry of Education & Religious Affairs (2005-2006).
2. National Representative of Greece in the Marie Curie Actions European Communities (2005-2006).
3. Member of the Committee of the Greek Rectors Conference for the evaluation of the new Law for Research and Development, Greece (2007).
4. Member of the Greek National Plenary Council for Research & Technology (2008-2009).
5. Member of the Greek National Committee for the "Institutional Framework for Research and Technology", General Secretariat of Research & Technology (2009).
6. Chairman of the Greek Supreme Chemistry Council (2005-2009).
7. Chairman of the Committee of Physics-Chemistry-Materials of the Greek General Secretariat for Research & Technology (2008-2009).
8. Chairman of the Committee of National Strategic Reference Framework (MSRF) 2007-2013 of the Greek Rectors Conference (2007-2010).
9. Chairman of the Committee of "Nanotechnology" in the frame of National Reference Framework (NCRF) of GGSR (2008-2009).
10. National Representative of Greece in the European Community for "Site issue Working Groups" (2009).

### **Distinctions-Awards**

1. Medal of the Ministry of Education of Ukraine, 2009.
2. DSc, University of East Anglia, 2011.

### **Plenary Research Lectures in International Conferences**

1. “NMR Detection of Antioxidants”, I.P. Gerothanassis, in 1<sup>st</sup> International Advance Course: Chemistry and Biochemistry of Antioxidants, Wageningen, Netherlands, November (2000).
2. “NMR Detection of Antioxidants”, I.P. Gerothanassis, in 2<sup>nd</sup> International Advanced Course: Chemistry and Biochemistry of Antioxidants, Wageningen, Netherlands, November (2001).
3. “NMR Detection of Antioxidants”, I.P. Gerothanassis, in 3<sup>rd</sup> International Advanced Course: Chemistry and Biochemistry of Antioxidants, Wageningen, Netherlands, November (2002).
4. “NMR Detection of Antioxidants”, I.P. Gerothanassis, in 4<sup>th</sup> International Advanced Course: Chemistry and Biochemistry of Antioxidants, Wageningen, Netherlands, November (2003).
5. “NMR Methods for Investigating Antioxidants”, I.P. Gerothanassis, in 5<sup>th</sup> International Advanced Course: Chemistry and Biochemistry of Antioxidants-Antioxidants in Health, Disease and Food Safety – Practical Assessment Wageningen, Netherlands, November (2004).