ATHANASIOS SALIFOGLOU

EDUCATION

Ph.D., Bioinorganic Chemistry, The U. of Michigan, Ann Arbor, Michigan, USA 12/1987

ACADEMIC RECORD

- **Professor** School of Chem. Engineering, Aristotle U. Thessaloniki, **Greece** 2003-present
  Head of the Laboratory of Inorganic Chemistry and Advanced Materials
  Director of the Graduate Program "Processes and Technology in Advanced Materials" 2008-2024
- University of Crete, Heraklion, **Greece**. 1996-2003
- Massachusetts Institute of Technology, Cambridge, MA, **USA** 1988-1995
- New England Medical Center/Tufts U., Boston, MA, **USA** 1992-1993
- The University of Michigan, Ann Arbor, Michigan, MI, **USA** 1983-1988
- The University of Iowa, Iowa, **USA** 1982-1983

RESEARCH INTERESTS AND ONGOING ACTIVITIES

- Natural antioxidants in human nutrition. Molecular engineering of natural antioxidants and pro-oxidant metal ionic materials in human health. Biomolecular interactions-mechanisms of pro-oxidant metals and antioxidant behavior of natural products and hybrid derivatives through the use of experimental models.
- Inorganic-organic hybrid surface-modified (liposomes and silica) and magnetic nanoparticles capable of transport, selective and specific delivery of molecular probes to neuro-loci in the brain for imaging. Bioinorganic chemistry of vanadium, titanium, chromium, and zinc compounds with physiological and biomimetic substrates, as potential pharmaceuticals of anticarcinogenic, neuroprotective, adipogenic and insulin mimetic activity. Controlled release of synthetic-naturally encountered molecules from (macro)molecular cages relevant to metallodrug absorption and bio-activity processes. (Multi)functional materials (sensors) in Biomedical Engineering diagnostic medicine and (nano)technology.
- Transcriptional activation of signal transducing H_{α}-Ras through DNA minisatellites in the human genome. From physiology to cancer. Applications of metal-organics as anticancer (nano)metallodrugs
- Metallo-induced oxidative stress and pathogenetic processes in neurodegeneration (Alzheimer, etc.) and cancer. Design and development of technological approaches linked to metal-catalyzed oxidative damage of biological tissues. Development of selective chemosensors of essential and non-essential metal ions in relation to clinically pathological conditions in neurodegenerative diseases. Diagnostic molecular biomarkers in Mild Cognitive Impairment and Alzheimer's dementia.
- Bioinformatics in the establishment of properties and processes of biological nanonetworks relevant to cellular (patho)physiologies linked to disease onset, progression and drug administration (theranostics).

AWARDS AND DISTINCTIONS IN THE PAST DECADE

- Representative of Greece, Inorganic Chemistry Division of the European Chemical Society (**EuChemS**)
- Elected Member of the Romanian Society for Cell Biology
- Distinguished Member of the Faculty of Chemistry and Biology, West U. of Timisoara, Romania
- Honorary Professor of the Dept. of Applied Chemistry and Material Sciences
  Polytechnic University of Bucharest, Romania
- Editorial Board Member International Journal of Molecular Sciences
- Adjunct Professor Department of Chemistry and Biology, West University of Timisoara, Romania

- **PUBLICATIONS IN PEER REVIEWED JOURNALS** **141**
- **CITATIONS -- H-INDEX** **6543-38**
- **ADVISOR TO Ph.D. DEGREES AWARDED** **15**
- **ADVISOR TO Ph.D. DEGREES CURRENTLY IN PROGRESS** **7**
- **ADVISOR TO M.Sc. DEGREES AWARDED** **29**
- **ADVISOR TO DIPLOMA THESES AWARDED** **117**
- **INVITED TALKS TO NATIONAL/INTERNATIONAL CONFERENCES** **204**
- **ARTICLES PRESENTED NATIONAL/INTERNATIONAL CONFERENCES** **570**
- **ORGANIZATION OF NATIONAL/INTERNATIONAL CONFERENCES** **45**
- **PARTICIPATION IN GRADUATE STUDY PROGRAMS (INTER)NATIONAL** **7**
- **MEMBER IN RESEARCH NETWORKS (EU, COST, BIOMATERIALS)** **4**
- **REVIEWER IN INTERNATIONAL JOURNALS** **58**
- **REVIEWER OF (INTER)NATIONAL (EU, ASIA, AFRICA) GRANTS** **(1996-present)**