

Stavros Kalogiannis

Associate Professor

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RESEARCH INTERESTS

Foodomics / Metabolomics

The application of analytical methods for the determination of the metabolic profile of foods and living organisms

Oxidative stress

Elucidating oxidative stress in organisms under environmental stress and in relation with biochemical and metabolic mechanisms.

Biological activity of metal complexes

Understanding antimicrobial activity of metal complexes with bioactive compounds.

Biochemical and nutritional education

Generating online teaching tools and databases.

EDUCATION

Doctor of Philosophy (PhD) (1993-96) at the Institute of Food Research (IFR), Reading, United Kingdom, assigned to the Dept of Agriculture, University of Reading.

Title of thesis: The xylanolytic enzyme system of the thermophilic fungus *Thermoascus aurantiacus*.

Master of Science (MSc) in **Food Science**, (1992-93), Dept of Food Science and Technology, University of Reading, United Kingdom.

Bachelor of Science (BSc) in **Chemistry**, (1985-90), Aristotle University of Thessaloniki, Greece.

PROFESSIONAL EXPERIENCE

Academic

March 2008 - now: **International Hellenic University** (IHU, former Alexander Technological Educational Institute of Thessaloniki), Department of Nutritional Sciences and Dietetics, School of Health Sciences, Thessaloniki, Greece.

- Assistant Professor
- Head of the Chemical Biology Laboratory
- Deputy Head of the Department and of the Postgraduate Course

Non Academic

March 2005 – March 2008: **General Analytical Laboratory**, Kavala, Greece.

- Department of alcohol, wine and beer.
- Food Analysis Laboratory, ISO 17025 accredited laboratory

August 2003 – March 2005: **Hellenic Sugar Industry SA**, Platy Factory, Deputy Production Manager, Platy, Greece,

- Deputy Production Manager
- HACCP Manager, Member of the Quality Council

March 2003 – August 2003: **Hellenic Sugar Industry SA**, Central Offices, Technical Administration Division, Thessaloniki, Greece.

Monitoring Operation of the Industry's 5 Factories, Selection of Supplies, Composing ISO 9001:2000 Management System

January 1997 – March 2003: **Hellenic Sugar Industry SA**, Department of Plant Breeding & Biotechnology, Laboratory of Industrial Microbiology, Sindos, Greece.

- Research Projects
 - Exploitation of sugar beet molasses for the production of high value added products..
 - Reduction of losses during sugar making due to microbial activity.
 - Isolation of osmophilic and osmotolerant organisms from sugar beet molasses and sugar factories.
- ISO 17025 Quality Management System: Quality Manager
Establishing and Accreditation of the Quality System

RESEARCH PROJECTS

Principal Investigator at IHU: National Research Infrastructure “Foodomics-GR – Comprehensive Food Characterization”, funded under the Operational Programme “Competitiveness, Entrepreneurship & Innovation 2014-2020”, 2018 -2021.

Principal Investigator: “Consumer exposure assessment and toxicity study of cyclic oligomers from food packaging materials” funded under Operational Programme “Human Resources Development, Education and Lifelong Learning 2014-2020”, 2020-2021.

Partner of the Biomic Research Team of the Center for Interdisciplinary Research and Innovation of Aristotle University of Thessaloniki.

Partner: Interaction of antiinflammatory and antimicrobial drugs with Cu(II) and Ni(II): antioxidant, antimicrobial, anti-inflammatory and antithrombotic action, Archimedes III (2012-15)

SCIENTIFIC COMMUNITIES – SOCIAL ACTIVITY

Member of the Working Group of the 1st Urban Food Council - Thessaloniki Food Council of the Municipality of Thessaloniki, July 4, 2019.

Chairman of the Organizing Committee of the 10th Macedonian Nutrition Conference, Thessaloniki, 4 & 5 October 2012.

Hellenic Chemical Association 2005-2011

2005-2006: member of the Steering Committee

2007-2009: Vice President 2010-2011: Treasurer

2005-2006: Treasurer of Central and Western Macedonia

National Representative of the Union of Greek Chemists in the International Union of Pure and Applied Chemistry (IUPAC) for the years 2008 - 2010.

LANGUAGES SPOKEN

Fluent in English, German and Greek, communication level in Spanish

EDITORIAL BOARD

Biochemistry and Molecular Biology Education

ADMINISTRATIVE WORK IN THE DEPARTMENT OF NUTRITIONAL SCIENCES AND DIETETICS

- Focal Point of The European Food Safety Authority (EFSA), August 2021 - Now
- Vice President of the Postgraduate Program "Nutrition and Dietetics", 2017 - Now
- Member of the Steering Committee Of The Postgraduate Program "Nutrition and Dietetics", 2015 - Now
- Director of the Laboratory of *Chemical Biology*, 2018 - Now
- Member of the Internal Evaluation Team of the Department 2019 - Now
- Deputy Chairman of the Department, 2019 – 2021

JOURNAL REVIEWER

- Journal of Chromatography B
- Biochemistry and Molecular Biology Education
- Food and Bioproducts Processing
- Molecules
- Metabolites
- Separations

MEMBER OF PHD TRIBUNAL COMMITTEE

14 July 2020: Despina Anastasiadou, "Copper and silver complexes with ligands S-, N- and P-donors: composition, structural characterization and bioactivity" at the Department of Chemistry, **Aristotle University of Thessaloniki**.

22 November 2019: Aina García García, "Utilization of genetic techniques and recombinant antibodies for the detection of allergenic foods of plant origin" at the Department of Nutrition, Bromatology and Food Technology, **Universidad Complutense de Madrid**, Spain, European Doctorate.

9 February 2017: Olga Deda, "Methods of metabolomics analysis for the discovery of biomarkers for exercise and aging in mammals" at the Department of Chemistry, **Aristotle University of Thessaloniki**.

2 December 2016: Silvia de la Cruz Ares, με τίτλο "Development of immunoenzymatic techniques using recombinant antibodies and rt-PCR techniques for the detection of almonds and Brasil nuts in foods" at the Department of Nutrition, Bromatology and Food Technology, **Universidad Complutense de Madrid**, Spain, European Doctorate.

11 December 2015: Nicolette Pegels Rojas, "Application of rt-PCR techniques for the traceability and authenticity of animal feed" at the Department of Nutrition,

Bromatology and Food Technology, **Universidad Complutense de Madrid**, Spain,
European Doctorate.

TEACHING AT OTHER DEPARTMENTS

Department of Physical Education and Sports, Aristotle University of Thessaloniki

Department of Food Science and Technology, IHU

Department of Agriculture, IHU

Postgraduate Studies, Diabetes Mellitus Care, Nursing Department, IHU

SELECTED PUBLICATIONS

- Dimitriadi, A., Papaefthimiou, C., Genizegkini, E., Sampsonidis, I., **Kalogiannis, S.**, Feidantsis, K., Bobori, D.C., Kastrinaki, G., Koumoundouros, G., Lambropoulou, D.A., Kyzas, G.Z., Bikiaris, D.N. (2021) Adverse effects polystyrene microplastics exert on zebrafish heart – Molecular to individual level, *Journal of Hazardous Materials*, 416, art. no. 125969, DOI: 10.1016/j.jhazmat.2021.125969.
- Diamantidou, D., Mastrogianni, O., Tsochatzis, E., Lopes, J.A., Theodoridis, G., Raikos, N., Gika, H., **Kalogiannis, S.*** (2022) Liquid Chromatography-Mass Spectrometry method for the determination of polyethylene terephthalate and polybutylene terephthalate cyclic oligomers in blood samples, *Analytical and Bioanalytical Chemistry*, *paper accepted*, DOI: 10.1007/s00216-021-03741-6.
- Theodoridis, G., Pechlivanis, A., Thomaidis, N.S., Spyros, A., Georgiou, C.A., Albanis, T., Skoufos, I., **Kalogiannis, S.**, Tsangaris, G.T., Stasinakis, A.S., Konstantinou, I., Triantafyllidis, A., Gkagkavouzis, K., Kritikou, A.S., Dasenaki, M.E., Gika, H., Virgiliou, C., Kodra, D., Nenadis, N., Sampsonidis, I., Arsenos, G., Halabalaki, M., Mikros, E. (2021) FoodomicsGR_RI. A consortium for comprehensive molecular characterisation of food products, *Metabolites*, 11 (2), art. no. 74, pp. 1-25, DOI: 10.3390/metabo11020074.
- Zianna, A., Geromichalou, E., Geromichalos, G., *Fiotaki, A.-M.*, Hatzidimitriou, A.G., **Kalogiannis, S.**, Psomas, G. (2022) Zinc(II) complexes of 3,5-dibromo-salicylaldehyde and α -diimines: Synthesis, characterization and *in vitro* and *in silico* biological profile *Journal of Inorganic Biochemistry*, 226, art. no. 111659, DOI: 10.1016/j.jinorgbio.2021.111659.
- Feidantsis, K., **Kalogiannis, S.**, Marinoni, A., Vasilogianni, A.-M., Gkanatsiou, C., Kastrinaki, G., Dendrinou-Samara, C., Kaloyianni, M. (2020) Toxicity assessment and comparison of the land snail's *Cornu aspersum* responses against CuO nanoparticles and ZnO nanoparticles, *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, 236, art. no. 108817, DOI: 10.1016/j.cbpc.2020.108817.
- Diamantidou, D., Begou, O., Theodoridis, G., Gika, H., Tsochatzis, E., **Kalogiannis, S.**, Kataiftsi, N., Soufleros, E., Zotou, A. (2020) Development and validation of an ultra high performance liquid chromatography-tandem mass spectrometry method for the determination of phthalate esters in Greek grape marc spirits, *Journal of Chromatography A*, 1603, pp. 165-178, DOI: 10.1016/j.chroma.2020.461203.