Aristidis Tsatsakis Short CV



Professor and Academician Aristidis Tsatsakis¹, an esteemed academic and researcher, held the position of Director at the Department of Toxicology and Forensic Sciences² at the Medical School of the University of Crete, and the University Hospital of Heraklion. Additionally, he is the inspirer, founder and chief scientific leader of the University of Crete spin-off Company ToxPlus S.A.³ and the startup Life-Plus LLC ⁴.

Professor Tsatsakis has authored over 1300 publications (articles in journals, books, and abstract proceedings). Among these, more than 1110 have been published in ISI Web of Science journals and PubMed (760) journals . Currently, his impact factor index stands at 115 (GS)⁵, 97 (Scopus)⁶ and 90 (Web of Science)⁷.

He has coordinated over 80 scientific research and technology projects as the Principal Investigator and has established worldwide collaborations, which include European, North American and Asian teams well known for their excellence and innovation. He has additionally served as an evaluator in many EU (HORIZON), UK (Public Health England, NHS, UK) and Asian research projects.

Recent Project leaderships among others are: - EU Horizon 2020 Framework Program for Research and Innovation: European Tobacco Regulatory Framework - Policies to reduce lung diseases, 2016-2018. - The Marie Sklodowska-Curie actions (MSCA), H2020-MSCA-ITN-2016: Exploring the Neurological Exosome (Neurosomes), 2017-2022. - Euronanomed III: Ferritin- Nanocages for the Anti-Aging Treatment Based on Curcuminoids (Curcumage), 2020-2022.- Euronanomed III: Nanosystems conjugated with antibody fragments to treat brain infections (TARBRAINFEC), 2020-2023. -H2020: Magnetically wireless Nanodevices for the targeted delivery of therapeutic agents (ANGIE), 2021-2024. - Mega-Grants (Decree No. 220, Russian Federation): Agricultural Ecotoxicology, No. 075-15-2022-1138, 2022-2024. - Russian Science Foundation (RNF) Air Particle Pollution: No. 15-14-20032, 2015-2017.

In 2012, he was elected President of the European Federation of European Societies of Toxicology (EUROTOX) and served in that position as President and Past-President until 2016. He is a member of several Academies worldwide, including the Academy of Toxicological Sciences (FATS, USA), The World Academy of Sciences (WAS), the National Academy of Sciences of Russia (FMRAS) and the Academy of Europe (Academia Europaea).

He is Emeritus Professor for the Federal Institute of Hygiene and Toxicology (in Moscow - 2014), Doctor Honorary Causa of the Mendeleev Moscow University (2016), of the Far East Federal University (FEFU 2017) and of the Carol Davila University of Medicine and

¹<u>Aristsatsakis</u> ²<u>Laboratory of Toxicology</u> ³<u>ToxPlus</u> ⁴<u>LifePlus</u> ⁵<u>Google Scholar</u> ⁶<u>Scopus</u> ⁷Web of Science Pharmacy, (in Bucharest 2017). In 2017 he was elected Honorary Member of Bulgarian Toxicology Society, in 2018 Honorary President of the European Institute of Nutritional Medicine (E.I.Nu.M.), Honorary Member of EUROTOX, in 2019 Honorary Member of Slovak Society of Toxicology (SETOX) and most recently the Romanian Society of Toxicology (2023).

Professor Tsatsakis has an extensive career in the field of toxicology journal editing, having served as both an Editor in Chief, Managing Editor, and Guest Editor for esteemed Elsevier journals such as Toxicology Reports, Food and Chemical Toxicology, Toxicology and Toxicology Letters.

More recently in 2022, he assumed the role of Editor-in-Chief for the newly established Public Health and Toxicology journal European Publishing⁸ and launched in 2024 the Intern Journal of Exposomics and Toxicology.

His book on Toxicological Risk Assessment and Multi-System Health Impacts from Exposure is currently the updated toxicology reference book for academics. He has also edited two eminent books on risk assessment in agriculture and on genetically modified organisms among others⁹. His recently published book on Telomeres and successful ageing, by Jenny Stanford Publishing¹⁰, which encompasses and discusses current knowledge on the role of telomeres as metabolic and genetic biomarkers.

His textbook for medical students titled as Toxicology in Modern World is distributed many years now at the Medical School of the University of Crete but also in other Universities for Pharmacy and Chemistry students. Upcoming books are dedicated to ethical issues for Nanomaterials and on Toxicological Evaluations and Political Stance.

Professor Tsatsakis' primary research interests include biomonitoring and risk assessment of xenobiotic substances, as well as linking chronic low-dose exposure to health problems and diseases. He is the architect of a novel risk analysis model, which incorporates multiple key factors such as the exposure to various environmental pollutants, at low doses, and their combinations with various everyday products, as well as potential interactions of these pollutants with biological systems.

This risk simulation model, known as "Real Life Risk Simulation (RLRS)," studies these multifactorial systems on a long-term basis, and numerous related scientific studies have been conducted worldwide since 2015. The concept is outlined in the fact that in practice, the general population faces a non-selective multichemical exposure from many different sources, with long-term exposure to doses close to or below regulatory limits. Such methodology for the most part is lacking from the current risk assessment practices and policies in the current worldwide regulatory framework¹¹.

He has developed numerous exposure and effect biomarkers for various chemical substances, especially pesticides, pharmaceuticals, and others, revealing the mechanistic understanding of their mode of action and the adverse effects leading to clinical outcomes and chronic diseases (metabolic, autoimmune, cancer, etc.). Recent research has also highlighted telomeres as a genetic and metabolic phenotypic biomarker. Specifically, the

⁸ Public Health and Toxicology

⁹ <u>Toxicological Risk Assessment and Multi-System Health Impacts from Exposure</u>

¹⁰ Jenny Stanford Publishing

¹¹ Wikipedia_A.Tsatsakis

percentage of "short telomeres" can indicate the onset of disease. As a biomarker, the percentage of short telomeres reflects genetic, environmental, and behavioral factors, serving as an RLRS biomarker. The developed telomere measurement procedure realized by Life-Plus is the most informative testing for clinical applications and phenotypic profiling and powerful biomarker of personalized medicine.

Professor Tsatsakis' long-term public engagement in promoting science for the safety of health and the environment has received repeated support and significant recognition from universities, as well as national and international authorities. In particular, in 2020 and 2021, he was recognized as a Highly Cited Researcher¹² by Clarivate Analytics - Web of Science in the field of Pharmacology and Toxicology of Biomedical Sciences, earning a place on the list of researchers with the greatest global influence.

Early in 2001 Dr Tsatsakis received the IRPC Gold Medal. In October 2021, he was awarded the commemorative Medal "130 years of the Federal Scientific Center of Hygiene named after F.F. Erisman" and the Academician Shitskova Medal of Honors in 2022.

In October 2022, he was awarded the EUROTOX Merit Award 2022¹³ by the European Federation of European Societies of Toxicology (EUROTOX) for his significant contributions to the field of Toxicology.

Additionally, he was recently elected as a Member of the Academia Europaea¹⁴, acknowledging his work and achievements in science. In January 2024 he was awarded the jubilee medal "300 Years of the Russian Academy of Sciences", established by the Decree of the President of the Russian Federation.

His drive and mentality underscore the important role of academia in addressing societal issues. The concept of real-life risk simulation based on low-dose, combined long-term exposures in relation to health issues is an essential component and a driving force for the application of theory to practice for evaluating safety in the 21st century.

Dr Tsatsakis dedicated significant efforts in societal activities by organizing meetings and press discussions related to communicating and alarming the risks from chemical exposure especially associated to pesticides applications in rural areas. He is engaged in different committees for sports particularly in medical committee for the Greek Tennis Federation. He enjoys to play tennis

Dr Tsatsakis has been the president of many European and International Congresses in the field of Toxicology (EUROTOX 2008 & 2025)¹⁵ and Nano Pharmacology-Nanomaterials (BIONANOTOX 2009 -2023)¹⁶ and also in other congresses in the field of Analytical Toxicology (Hair Testing) and Forensic Sciences (Hellenic Congress). Honorary President of PDI congresses in lasi for 10 consecutive years and for Pharmacology Toxicology World Conferences in Dubai Berlin and Rome.

- ¹⁴Academia Europaea
- ¹⁵ EUROTOX2025
- ¹⁶ BIONANOTOX

¹²Highly Cited Researcher

¹³ EUROTOX Merit Award

His motivations logo: "Toxicology addresses society's real-life risks for sustainable health and wellbeing" is indicated on the EUROTOX 2025 website.