Aristidis Tsatsakis Short CV

Professor and Academician Aristidis Tsatsakis[1], an esteemed academic and researcher, holds the position of Director at the Department of Toxicology and Forensic Sciences[2] at the Medical School of the University of Crete, and the University Hospital of Heraklion. Additionally, he is the inspirator, founder and chief scientific leader of the University of Crete spin-off Company ToxPlus S.A.[3] and the startup LifePlus.[4]

Professor Tsatsakis has authored over 1300 publications (articles in journals, books, and abstract proceedings). Among these, more than 800 have been published in ISI journals and PubMed (715). Currently, his impact factor index stands at 102(GS)[5], 84 (Scopus)[6] and 78 (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.

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 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, he assumed the role of Editor-in-Chief for the newly established Public Health and Toxicology journal European Publishing[8]. His book on Toxicological Risk Assessment and Multi-System Health Impacts from Exposure is currently

[1] Aristsatsakis
[2] Laboratory of Toxicology
[3] ToxPlus
[4] LifePlus
[5] Google Scholar
[6] Scopus
[7] Web of Science
[8] Public Health and Toxicology

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the updated toxicology reference book for academics. He has also edited eminent books on risk assessment in agriculture and genetically modified organisms among others[9]. His upcoming book on Telomeres and successful ageing, to be published by Jenny Stanford Publishing[10], encompasses and discusses current knowledge on the role of telomeres as metabolic and genetic biomarkers.

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 framework[11].

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 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 Researcher[12] 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 honours in 2022. In October 2022, he was awarded the EUROTOX Merit Award 2022[13] by the European Federation of European Societies of Toxicology (EUROTOX)

[9] Toxicological Risk Assessment and Multi-System Health Impacts from Exposure
[10] Jenny Stanford Publishing
[11] Wikipedia A.Tsatsakis
[12] Highly Cited Researcher
[13] EUROTOX Merit Award

for his significant contributions to the field of Toxicology. Additionally, he was recently elected as a Member of the Academia Europaea[14], acknowledging his work and achievements in science.

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 has been the president of many European and International Congresses in the field of Toxicology (EUROTOX 2008 & 2025)[15] and Nanopharmacology (BIONANOTOX 2009 -2023)[16].

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

[14] Academia Europaea
[15] EUROTOX2025
[16] BIONANOTOX