



Dr. Sündüs TEWFİK

Dr. Sündüs Tewfik is a distinguished scientist and academic with extensive experience in the fields of pharmaceuticals, biotechnology, natural products, and functional foods. Throughout her career, she has focused on the discovery of natural molecules, pharmaceutical formulation development, quality assurance of herbal products, and innovative solutions to improve public health. Leveraging this expertise, she founded Bloomsnano, where she currently serves as Executive Director, Sustainability Officer, and Head of Natural Nanomolecules Development, leading the company as a global centre of excellence in natural products and functional foods. After completing her undergraduate studies in Biology at Firat University in Türkiye, Dr. Tewfik earned her master's degree in Applied Microbiology (Biotechnology) from the University of Westminster in the United Kingdom. She subsequently completed her workplace training in Cytology and Cytogenetics at St. Mary's Hospital in London, obtaining the title of UK Registered Biomedical Scientist. Her doctoral research at the University of Westminster focused on bioactive compounds derived from the *Anacyclus pyrethrum* plant, during which she specialized in pharmacognosy, molecular analysis, and the standardization of herbal products. Throughout her doctoral process, she took active roles in multidisciplinary projects, including plant cultivation at Highgrove and Duchy Home Farm, herbal medicine preparation in primary healthcare clinics, and comprehensive laboratory stages involving physical-chemical analysis, biological activity testing, and quality control. Within the scope of industry collaborations, she has undertaken specialized assignments such as analysing UV-protective plant extracts for Neal's Yard Remedies, developing functional prescription projects for the University of Westminster, analysing volatile organic compounds in drinking water for the Qatar General Electricity and Water Corporation, and conducting risk assessments of radioactive compounds for the Saudi Food and Drug Authority. Her research areas span a wide spectrum, from the genetic authentication of herbal products to biochemical and antimicrobial evaluations, and from the isolation and identification of bioactive components to randomized clinical trials. She particularly focuses on natural molecules associated with inflammation, cardiovascular diseases, cancer, allergies, and cognitive disorders. Additionally, she

investigates the role of nanomolecules in health and disease management, conducting innovative work on the integration of natural products into functional foods. Dr. Tewfik's research has directly contributed to policy-making processes. In 2007, she provided scientific input to the All-Party Parliamentary Group on Integrated and Complementary Healthcare at the UK Parliament (House of Commons). In 2019, she contributed to the Commission on Medicinal and Aromatic Plant Cultivation and Value-Added Product Development at the Turkish Grand National Assembly. Between 2000 and 2018, she taught at various higher education institutions, including the University of Westminster, City of Westminster College, London Metropolitan University, and the Shanghai University of Traditional Chinese Medicine, supervising numerous students in pharmaceutical formulations and herbal pharmacology. She possesses an educational approach aimed at nurturing her students with a culture of research focused on scientific curiosity, industrial application, and social benefit. Currently focusing on personalized health consultancy, the dissemination of sustainable and ethical agricultural practices, functional food production, and nanomolecule research, Dr. Tewfik is an internationally respected figure in the field of natural products science and applied biotechnology, with over 30 years of expertise.