

Software Fair Series Part 2 - USDA Integrated Pathogen Modeling Program (IPMP)

Organized by: Microbial Modeling and Risk Assessment PDG and the International Conference in Predictive Microbiology in Foods Committee (ICPMFC)

Moderator: Panagiotis Skandamis, Agricultural University of Athens, Greece

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This webinar is being recorded and will be available to IAFP members within one week.

Today's Moderator



Panagiotis Skandamis, *Researcher, Agricultural University of Athens, Greece*

Dr. Panagiotis N. Skandamis Professor of Food Microbiology and Food Quality Control and Food Hygiene in the Agricultural University of Athens and member of the BIOHAZ panel of European Food Safety Authority (EFSA). He has worked as a post-doctoral fellow in the Department of Animal Science of Colorado State University in the USA. In 2004, he joined the Department of Food Science & Technology of AUA. Dr. Skandamis has (co-) authored 187 original research papers in journals of SCI, 30 book chapters, another two, currently under preparation, edited 1 book, and has a total number of 7042 citations (h-index 37).

His research is funded by 5th-7th EU Framework Programs, HORIZON 2020, competitive Grants from Greek Research and Technology Funding Agency, as well as direct contracts with the Greek Food Industry in the following areas: (i) active antimicrobial and intelligent packaging of foods; (ii) food spoilage and safety; (iii) biofilm formation and removal by chemical and natural disinfectants, (iv) predictive microbiology of foods and quantitative microbial risk assessment, (v) application of antimicrobial interventions; (vi) detection, isolation and subtyping of foodborne pathogens from foods and food processing environments.

He has been Associate Editor in Food Research International (2012-2017). Currently, he is serving as a scientific co-editor in the Journal of Food Protection and a member of the Editorial Board in Applied and Environmental Microbiology, International Journal of Food Microbiology and Frontiers in Microbiology.

Dr. Skandamis member of the scientific committee of International Conference in Predictive Microbiology in Foods (ICPMF) since 2008, member of the organizing committee of the European Symposium of International Association of Food Protection (IAFP) since 2015, and current co-President of the FoodMicro 2020. He is also Chair of the Professional Development Group of “Microbial Modelling and Risk Assessment” of IAFP.

Predictive Modeling software development: Dr. Skandamis the developer of GroPIN(www.aua.gr/psomas), a Predictive Modelling Software tool, which constitutes a database of >400 kinetic and probabilistic models for pathogens and spoilage organisms in response to a variety of intrinsic and extrinsic foods parameters (e.g., T, pH, aw, preservatives, atmosphere, etc.).

Today's Panelist



Dr. Lihan Huang, Research Leader

*Residue Chemistry & Predictive Microbiology Research Unit
USDA*

Dr. Lihan Huang is the Research Leader of the Residue Chemistry and Predictive Microbiology Research Unit, Eastern Regional Research Center, Agricultural Research Service (ARS), United States Department of Agriculture. Dr. Huang's research has focused on developing new methodologies and tools to advance of the science of predictive microbiology. Prior to joining the USDA ARS, Dr. Huang worked for Campbell Soup Company, developing innovative thermal processes for manufacturing shelf-stable soups in hermetically sealed semi-rigid and flexible containers. He serves as a Scientific Editor for Food Microbiology Section of the Journal of Food Science and Editor of Food Control. Dr. Huang is a Fulbright Specialist of the Department of State (2017-2020). Internationally, Dr. Huang serves on the roster of the Joint FAO/WHO Expert Meetings on Microbiological Risk Assessment (JEMRA), an international scientific expert group administered by the Food and Agriculture Organization of the United Nations (FAO) and the World Health Organization (WHO).

Contact Information

Please contact Dr. Huang (Lihan.Huang@usda.gov) for more detailed information and application of the tools.

The software, tutorial materials, and sample data sets can be found using the following weblinks:

USDA IPMP 2013: <https://www.ars.usda.gov/northeast-area/wyndmoor-pa/eastern-regional-research-center/docs/ipmp-2013/>

USDA IPMP-Global Fit: <https://www.ars.usda.gov/northeast-area/wyndmoor-pa/eastern-regional-research-center/docs/ipmp-global-fit/>

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