

12th International Conference on **Predictive Modelling in Food**

June 13-16, 2023 Sapporo, Japan

Conference Program

Hokkaido University Conference Hall

Day 1:

Tuesday, June 13, 2023

Registration

Open from 13:00 -

Pre-conference Workshops 14:00-17:00

Workshop 1 Exploiting the power of the harmonized knowledge exchange format FSKX	Workshop 2 <u>Bayesian methods for microbiological data and risk assessment</u>	Workshop 3 Introduction to Predictive Microbiology	Workshop 4 <u>Meta-Regression in</u> <u>Food Microbiological</u> <u>Safety</u>
Matthias Filter German Federal Institute for Risk Assessment (BfR)	Dr. Jukka Ranta Finnish Food Authority	Dr. Lihan Huang Eastern Regional Research Center, Agricultural Research Service, U.S. Department of Agriculture Research Service	Dr. Ursula Gonzales-Barron Instituto Politécnico de Bragança, Portugal Vasco Cadavez, Instituto Politécnico de Bragança, Portugal
Meeting room #3	Meeting room #4	Meeting room #5	Meeting room #6

ICPMF Board Members Meeting

17:30 – 18:30 @Meeting room #2

Welcome Reception

18:00 – 20:00 @Information center (next to the conference venue)

Day 2: Wednesday, June 14, 2023

at 2F Auditorium

8:00-	Registration
9:00 -9:10	Welcome from the chair Shige Koseki and Kento Koyama (Hokkaido University)
9:10 – 9:30	Predictive Microbiology: so far and the future 30th anniversary of the RED book
	Prof. Tom Ross (University of Tasmania)
9:30 - 10:00	Keynote lecture 1
	Variability and uncertainty in predictive microbiology and QMRA – the what, the why and the how
	Dr. Albert Garre (Technical University of Cartagena, Spain)
10:00 -10:30	Coffee break
	Poster session The presenters with "odd number" should stand by the poster (1F Hall)
10:30-12:00	Oral session 1: Quantitative Microbial Risk Assessment
	Chairs: Marcel Zwietering & Hiroki Abe
10:30	O1-1 Characterization of uncertainty in microbiological risk assessment: is it possible?
	Maarten Nauta 🚝
10:45	O1-2 Minimizing the risk of foodborne illness and analytical costs using a QMRA model for raw milk cheeses
	Subhasish Basak, Janushan Christy, Laurent Guillier, Frédérique Audiat-Perrin, Moez Sanaa, Fanny Tenenhaus-Aziza, Julien Bect, Emmanuel Vazquez
11:00	O1-3 Farm to fork quantitative risk assessment of <i>Escherichia coli</i> O157:H7 illness from the consumption of fresh Australian apples
	Elizabeth Frankish, Hayriye Bozkurt, Tom Ross
11:15	O1-4 Using the biorisk package for R to evaluate the risk of salmonellosis associated with

	fresh-cut lettuce production and distribution chains
	Arícia Possas, Silvia Guillén, Pablo S. Fernandez, Fernando Pérez-Rodríguez, Alberto Garre
11:30	O1-5 Joint FAO/WHO Expert meetings on microbiological risk assessment (JEMRA)
	Kang Zhou •
11:45	O1-6 Development of a Quantitative Microbiological Spoilage Risk Assessment (QMSRA) Model for fresh poultry fillets
	<u>Sofia Tsaloumi</u> , Leonardos Stathas, Konstantinos Koutsoumanis ≝
12:00-13:30	Lunch (HOTEL MYSTAYS Sapporo Aspen)
13:30-15:00	Oral session 2: Predictive microbiology software development
	Chairs: Ursula Gonzales-Barron & Lihan Huang
13:30	O2-1 Sym'Previus MAP- A web application for the design of food packaging to improve the preservation of food products
	Jonathan Thévenot, <u>Yvan Le Marc</u> , Catherine Denis, Janushan Christy, Valérie Michel, Valérie Stahl, Didier Majou, Emilie Gauvry, Emmanuel Jamet, Fanny Tenenhaus-Aziza, Jean-Christophe Augustin, Narjes Mtimet, Guillier Laurent, Sabine Jeuge, Jeanne-Marie Membré, Anna Jofré, Alizée Guérin, Aline Rault, Stella Planchon, Olivier Couvert, Louis Coroller
13:45	O2-2 Sym'Previus-fungi: predicting spore germination and radial growth of fungi in dairy products
	Nicolas Nguyen Van Long, Marion Valle, Yvan Le Marc, <u>Jeanne-Marie Membré</u> , Catherine Denis, Janushan Christy, Valérie Michel, Valérie Stahl, Didier Majou, Emilie Gauvry, Emmanuel Jamet, Fanny Tenenhaus-Aziza, Jean-Christophe Augustin, Narjes Mtimet, Laurent Guillier, Sabine Jeuge, Anna Jofré, Alizée Guérin, Aline Rault, Stella Planchon, Louis Coroller
14:00	O2-3 Using shiny R package to develop a user-friendly interfaces powered by complex predictive microbiology models
	Dipon Sarkar, Mark Tamplin, Rajat Nag, Alberto Garre 🐸 💶 📁
14:15	O2-4 Food Safety Knowledge Exchange (FSKX) format: current status and strategic development plans
	<u>Matthias Filter</u> , Thomas Schüler ■

14:30	O2-5 Discovering Pathogens-in-Foods: resources and applications of a database on occurrence data of foodborne pathogens in European-marketed foods
	Ana Sofia Faria ^{1,2} , Maiara Winter ^{1,2} , Anne Thebault ³ , Laurent Guillier ³ , Pauline Kooh ³ , Winy Messens ⁴ , <u>Vasco Cadavez</u> ^{1,2} , Ursula Gonzales-Barron III
14:45	O2-6 e-Platon: an interactive web-based platform for spatio-temporal illustration of multi- metric laboratory food safety and quality data with capacity for real time, on-line multivariate analysis
	Panagiotis Skandamis, Antonia Gounadaki
15:00-15:30	Coffee break Poster session The presenters with "odd number" should stand by the poster (1F Hall)
15:30-16:00	Software fair -1 Short presentation (5 min) of each software tool Chair: Shige Koseki
15:30	Food Safety Knowledge-Lab (FSK-Lab) Thomas Schueler,
15:35	D database, bioinactivation, biogrowth & biorisk - a complete toolset for predictive micro and QMRA Alberto Garre
15:40	FSSP Maryam Maktabdar
15:45	Sym'Previus Yvan Le Marc
15:50	MicroHibro Fernando Pérez Rodríguez
16:00-18:00	Software fair -2 Software demonstration and hands on session at conference room #1 (1st floor)

Day 3: Thursday, June 15, 2023

at 2F Auditorium

8:00-	Registration
8:30-9:00	Keynote lecture 2 New developments in microbial heat inactivation: Setting the basis for a risk-based design in thermal processing of foods Prof. Kostas Kouthomanius (Aristotle University of Thessaloniki, Greece)
9:00-10:30	Oral session 3: Advanced modeling technique Chairs: Maarten Nauta & Vasiilis Valdramidis
9:00 -	O3-1 When the Weibull model helps in deciphering bacterial variability related to survival behaviour Leanne-Marie Membré, Ivan Leguérinel
9:15	O3-2 Development of a thermal inactivation model considering the thermotolerance variability of 19 Campylobacter jejuni strains using the multi-variate normal distribution and the Most Probable Curve method Hiroki Abe, Susumu Kawasaki
9:30	O3-3 Understanding the relation between single-cell division times and growth dynamics of bacterial colonies
9:45	Styliani Dimitra Papagianeli, Zafeiro Aspridou, Konstantinos Koutsoumanis O3-4 Conditions Needed to Re-induce Lag Phase of Salmonella Under Dynamic Temperature Conditions Megan Wang, Donald Schaffner ✓
10:00	O3-5 Dynamic Modeling of Interspecies Bacterial Competition – An Integrated Approach Lihan Huang
10:15 - 11:00	Coffee break Poster session The presenters with "Even number" should stand by the poster (1F Hall)

11:00-	Oral session 4:
12:15	Optimization of food processing
.25	Chairs: Don Schaffner & Jukka Ranta
11:00	O4-1 The Use of Mathematical Modelling in the Optimization of Food Packaging Design for Vegetables to Avoid the Pack and Pray Approach: A Baby Leaf Spinach Case
	Francesco S. Giordano, Andrew Reynolds, Lorraine Foley, Jesus M. Frias
11:15	O4-2 Optimising the selection of temperature levels in the experimental design for the estimation of cardinal parameters for growth
	Ursula Gonzales-Barron, Mariem Ellouze, Vasco Cadavez ■□
11:30	O4-3 Tomato quality and safety assessment through the application of physicochemical and predictive microbiology models
	Francisco Jiménez-Jiménez, <u>Arícia Possas</u> , Laura Rabasco-Vílchez, Fernando Pérez-Rodríguez
11:45	O4-4 Predicting the growth limits of psychrotrophic <i>Bacillus cereus</i> as a function of storage temperature, pH, water activity and acetic acid: an approach based on phylogenetic groups
	Yvan Le Marc, Anne Lochardet, Emilie Pétillon, Julie Evrard, Florence Postollec, Véronique Huchet ■
12:00-	Lunch (HOTEL MYSTAYS Sapporo Aspen)
13:30	Earner (110 122 Will will support visipen)
13:30-	Special session:
15:00	Next Generation Predictive Modeling in the Food Industry; from mathematical models to Information Technologies (IT) and Data Science Organized by Prof. George -John Nychas (Greece)
13:30	S-1 New Developments in Food Safety and Quality Assessment
	George – John Nychas≝
14:00	S-2 The Machine Learning Web Platforms for Food Microbiological Quality and authentication
	Fady Mohareb
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14:30	S-3 Risk-based Decision support in the Food Industry
	Konstantinos Koutsoumanis
15:00-	Coffee break Poster session
15:45	The presenters with "Even number" should stand by the poster (1F Hall)
15:45-	Oral session 5: Predictive models based on new approaches
17:30	Chairs: Jeanne-Marie Membré & Yvan Le Marc
15:45	O5-1 Overview: Rapid assessment of microbiological quality in meat and fish using FTIR
	Lemonia-Christina Fengou, Anastasia Lytou, <u>George Nychas</u> [™]
16:00	O5-2 Modeling interactions between <i>Listeria monocytogenes</i> and dominant bacteria in pasteurized milk
	Jiaming Zheng, Xiaofeng Li, Qingli Dong, Xiang Wang
16:15	O5-3 Data mining for predicting bacterial population behavior integrating food components
	Kazuki Saito, Shinya Sunagawa, Ryohei Shimizuhata, Shinji Nakaoka, Shige Koseki, Kento Koyama
	Chairs: Matthias Filter & Laurent Guillier
16:30	O5-4 Use of modelling to shed light on the enrichment ecology of <i>Listeria monocytogenes</i>
	Jasper Bannenberg, <u>Marcel H. Zwietering</u> , Tjakko Abee, Heidy M.W. den Besten
16:45	O5-5 Predicting bacterial growth and thermal inactivation in raw and cooked chicken meat during storage
	<u>Ibrahim Benamar</u> , Maarten Nauta, Samia Bellifa, Asma Cherif-Anntar, Omar Messaoudi, Mohamed Salih Barka, Boumedine Moussa-Boudjemaa
17:00	O5-6 Effect of nutrient concentrations on the accuracy of predictive model for growth of Escherichia coli in foods Masaki Kato, Kento Koyama, Shige Koseki
17:15	O5-7 Effect of benzalkonium chloride adaptation on the tolerance of <i>Cronobacter sakazakii</i> exposed to subsequent lethal stresses
	Hongmei Niu, Li Xu, Xiaojie Qin, Shuo Yang, Xu Wang, Xiang Wang, Qingli Dong

19:00-	Gala dinner at Sapporo Beer Garden
21:00	"Genghis Khan" BBQ is Hokkaido's representative dish

Day 4: Friday, June 16, 2023

at 2F Auditorium

8:30-9:00	Keynote lecture 3 Omics technologies for predictive microbiology: challenges and future directions
	Dr. Laurent Guillier (French Agency for Food, Environmental and Occupational
	Health & Safety (ANSES), France)
9:00-10:30	Oral session 6: Predictive models based on various sources
	Chairs: Albert Garre & Fernando Perez-Rodriguez
9:00	O6-1 Modeling the effects of C18 free fatty acids on germination and emergence of vegetative cells as a function of their concentrations and degree of unsaturation
	Trunet Clement, Kaouache Sara, <u>Leguérinel Ivan</u>
9:15	O6-2 Assessment of microbial resistance under different pH and temperatures based on eGFP-labelled <i>Escherichia coli</i> strains
	Styliani Roufou, Clara Buttigieg, Sholeem Griffin, Vasilis Valdramidis 🍱 🛎
9:30	O6-3 Survival prediction of dried <i>Bacillus cereus</i> based on glass transition temperature
	Tatsuya Inomata, Kento Koyama, Shigenobu Koseki <a>I
9:45	O6-4 Bacillus cereus in dairy products: Prevalence and development of extensive growth and growth boundary models for mesophilic and psychrotolerant sub-groups
	Maryam Maktabdar, Ellen Wemmenhove, Elissavet Gkogka, Lisbeth Truelstrup Hansen, Paw Dalgaard
10:00	O6-5 The antagonistic effect of lactic acid bacteria isolated from dairy products against food-borne pathogens: A systematic review and meta-analysis
	Yara Loforte, Nathalia Fernandes, André Martinho de Almeida, <u>Vasco Cadavez</u> , Ursula
10.1=	Gonzales-Barron O6-6
10:15	Descriptive statistics and meta-analysis approaches to assess the effect of microbial contamination on the cultivation of microalgal biomass and its derivatives
	Haileeyesus Gebrehiwot, Vasilis Valdradimis 🍱 🗐
10.20 44.00	C. ((a bank a d Data a a a a a a a a a a a a a a a a a
10:30 -11:00	Coffee break and Poster session (1F Hall)

Oral session 7: Applications of predictive models for various fields
Chairs: Panagiotis Skandamis & Kento Koyama
O7-1 Listeria innocua inactivation in salami by process and by high pressure processing, how pragmatism can support the food safety
Elena Cosciani-Cunico, Elena Dalzini, Paola Monastero, Stefania Ducoli, Marina- Nadia Losio
O7-2 A literature-validated sampling simulation characterizes the power of different sampling plans by simulating recalled and reference powdered infant formula batches
Minho Kim, Matthew Stasiewicz
O7-3 Effect of herbal extracts on the survival of S. aureus in goat's raw milk cheese
Beatriz Nunes Silva, Sara Coelho-Fernandes, José António Teixeira, Vasco Cadavez, Ursula Gonzales-Barron
O7-4 Effect of non-thermal processings on allergenicity of shrimp tropomyosin
Shuai Wei, Xin Wang, Weicheng Hu, Shucheng Liu
O7-5 Multi-criteria decision technique to evaluate food safety and environmental impacts: Application to a large dairy farm
Rodney Feliciano, Jeanne-Marie Membré, Paola Guzman-Luna, Almudena Hospido
O7-6 Energy consumption model for liquid dairy products' heat treatment and cleaning-in-place processes in a plate heat exchanger system
Maria Ioanna Malliaroudaki, Nicholas J. Watson, Luanga N. Nchari, Satyajeet
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Closing remarks

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	Tianmei Sun, <u>Yangtai Liu</u> , Xin Dou, Qingli Dong 🏴
P-2	Quantitative microbial spoilage risk assessment of plant-based milk alternatives by
	Geobacillus stearothermophilus in Europe
	Ourania Misiou, Konstantinos Koutsoumanis, Jeanne-Marie Membré
P-3	Prevalence of phylotypes and virulence factors of uropathogenic Escherichia coli in freshly
	prepared beverages vended in Taiwan
	Liu-Yean Goh, Kuan-Hung Lu
P-4	Hazard identification of bacterial uropathogens in retail meats: the prevalence of uropathogenic <i>Escherichia coli</i> in ready-to-eat chicken and pork in Taiwan
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P-5	Estimating the burden of foodborne illness for Campylobacter, Salmonella and Vibrio
F-3	parahaemolyticus in Japan, 2006-2020
	Masaru Tamura, Hiroshi Amanuma, Yuko Kumagai, Fumiko Kasuga, Kunihiro Kubota
P-6	Quantitative microbiological risk assessment of nontyphoidal Salmonella in ground pork
' '	in households
	Li Bai ¹ , <u>Jun Wang</u> , Honghu Sun, Yeru Wang, Yibaina Wang ¹ , Qi Wang, Zhaoping Liu 🟴
P-7	The open Food Safety Model Repository (openFSMR) – new features and updated content
	Taras Günther, Lars Valentin, Thomas Schüler, Matthias Filter
P-8	A web-based interface for individual bacterial growth and death prediction in predictive
	microbiology
	Kento Koyama
P-9	Development of CAE App for Joule Heating of Food with Heterogeneous Ingredients
	Masanori Hashiguchi ¹ , Dahai Mi ¹ , <u>Yoshiki Muramatsu</u> ²
P-10	Numerical Analysis App for Heat Sterilization Process of Cylindrical Foods
	Yoshiki Muramatsu, Shuki Muramatsu, Masanori Hashiguchi, Dahai Mi, Shotaro Kawakami
P-11	Molecular epidemiological investigation of Salmonella isolated from poultry farm,
1-11	animals, food and hospital in China
	Linlin Xiao
P-12	The variability of <i>Paenibacillus</i> spore survival in response to heating with a retort sterilizer
	<u>Tetsuya Kobayashi</u> , Kento Koyama, Daisuke Yasokawa, Koji Yamazaki ■
P-13	Colonial growth dynamics of <i>Listeria monocytogenes</i> single cells after exposure to acidic
	conditions and disinfectants
	Marianna Arvaniti, Athanasios Balomenos, Vasiliki Papadopoulou, Panagiotis Tsakanikas,
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P-14	Evaluating the impact of co-culture of different <i>L. monocytogenes</i> strains on time of first division at single-cell level
	Maria A. Gkerekou, Vasiliki Papadopoulou, Marianna Arvaniti, Antonios N. Psomas,
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P-16	Functional properties of Lactic Acid Bacteria Isolated from fermented Cows' Milk in
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P-17	Antimicrobial application of the cyclodextrin metal-organic framework composites
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P-50	spectroscopy and machine learning Takashi Yamamoto, J. Nicholas Taylor, Shige Koseki, Kento Koyama Predictive modeling of the growth of Listeria monocytogenes in fresh salmon under dynamic temperature conditions
	Takashi Yamamoto, J. Nicholas Taylor, Shige Koseki, Kento Koyama <a> Image: Market Mar
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