



Programme

First Virtual (XXV) WORKSHOP on THE DEVELOPMENTS IN THE ITALIAN PhD RESEARCH ON FOOD SCIENCE TECHNOLOGY AND BIOTECHNOLOGY (https://www.phdfood.it/)

14-15 September 2021 – Università degli Studi di Palermo

Tuesday, 14 September, 2021

8.00-9.00 Registration

9:15 – 10:00 am - Opening ceremony and greetings from the authorities.

Auditorium Department of Economics, Business and Statistics (SEAS). University of Palermo, Viale delle Scienze Ed. 13

Prof. Fabrizio Micari, Rector of University of Palermo

Prof. **Angelo Mineo**, Director of the Department of Economics, Business and Statistics (SEAS)

Prof. Stefano Colazza, Director of the Department of Agriculture, Food, and Forestry Science

Prof.ssa **Ernestina Casiraghi**, Chair of the Italian Society of Food Sciences and Technologies (SISTAL)

Prof. **Luca Settanni**, Delegate of the Chair of the Italian Society of Agro-Food and Environmental Microbiology (*SIMTREA*)

10:00 – 10:50 am - Plenary Lecture: "La ricerca oltre il laboratorio: metodo, responsabilità e ruolo pubblico", Senatrice Elena Cattaneo, Auditorium SEAS

Chair: Luciano Cinquanta (University of Palermo)

(PhD students and fellows of the University of Palermo will attend)

11:00 - 12:30

Parallel session #1: Food Quality, Virtual room 1

Chairs: Carla Severini (University of Foggia), Deborah Pacetti (University of Marche)

11.00-11.20 Maria Alessia Schouten, University of Bologna

Innovative strategies for the mitigation of acrylamide content in different food products

11-20-11.40 Angelicola Martina, University of Molise

High amylose wheat flours for the development of healthy cereal based foods

11.40-12.00 Umer Farooq, University of Teramo

Application of innovative methods to study the tribological and colloidal properties of complex food systems

12.00-12.20 Sebastian Imperiale, University of Bolzano

Quality and authenticity of mountain milk products

11:00 - 12:30

Parallel session #2: Food Quality, Virtual room 2

Chairs: Bruno Zanoni (University of Firenze), Francesco Caponio (University of Bari)

11.00-11.20 Claudia Favari, University of Parma

Metabolomics applications to nutritional intervention studies

11.20-11.40 Gaetano Cardone, University of Milano

Sprouting as a biotechnological process to improve the functional properties of cereal-based products (FF)

11.40-12.00 Francesca Cavaliere, University of Parma

A food contact materials 3D database for food safety using nuclear receptors (ER and AR) as biological tumor markers

12.00-12.20 Ancuta Cezara Simon, University of Parma

Antimicrobial resistance of microorganisms isolated from swine chain

11:00 - 12:30

Parallel session #3: Microbial diversity, Virtual room 3

Chairs: Giuseppe Comi (University of Udine), Alessia Levante (University of Parma)

11.00-11.20 Francesco Riva, University of Napoli

Possible routes of antibiotic resistance diffusion through horizontal gene transfer in environments linked to the agri-food system

11.20-11.40 Dea Korcari, University of Milano

Investigating the biodiversity in spontaneous fermentations as a source of high-performance microorganisms

11.40-12.00 Mohammad Khairul Alam, University of Teramo

Functional and technological characterization of lactic acid bacteria in fermented milks

12.00-12.20 Shadi Pakroo, University of Padova

Characterization of potential probiotic *Pediococcus* strains with hypocholesterolemic properties isolated from traditional Persian fermented food

11.00-12.30 Poster session: Poster (pre-recorded oral presentation) & Miniposter

12:30 - 14:00

Parallel session #4: Food processing, Virtual room 4

Chairs: Vincenzo Gerbi (University of Torino), Marco Della Rosa (University of Bologna)

12.30-12.50 Davide De Angelis, University of Bari

New pulses-based ingredients obtained by dry fractionation to improve the nutritional and technological quality of foods

12.50-13.10 Tashina Petersson, University of Viterbo

Reducing GHG emissions and water footprint in the EU through sustainable and healthy diets

13.10-13.30 Silvia Tagliamonte, University of Napoli

Food digestibility: a physiological approach for new product development

13.30-13.50 Angela Borriello, University of Napoli

Novel approaches in healthy cream development

12:30 - 14:00

Parallel session #5: Food processing, Virtual room 5

Chairs: Mauro Moresi (University of Tuscia), Paolo Masi (University of Napoli)

12.30-12.50 Jessica Genovese, University of Bologna

Application of Pulsed Electric Field (PEF) for the modulation of chemico-physical properties of different foods (FP)

12.50-13.10 Monica Macaluso, University of Pisa

Different strategies to maintain and increase the quality of olive oil and the sustainability of its production chain

13.10-13.30 Riccardo De Flaviis, University of Teramo

Qualitative and functional characterization of ancient Abruzzo wheat

13.30-13.50 Renoldi Niccolò, University of Udine

Development of functional and innovative cereal-based foods with reduced glycaemic response

12:30 - 14:00

Parallel session #6: Fermented foods, Virtual room 6

Chairs: Gianluigi Mauriello (University of Napoli), Annamaria Ricciardi (University of Basilicata)

12.30-12.50 Jasmine Hadj Saadoun, University of Parma

Fermentation as a strategy to produce high value-added compounds from by-products and waste

12.50-13.10 Mariagrazia Molfetta, University of Bari

Novel biotechnologies applied to cereal-based food items

13.10-13.30 Michele Matraxia, University of Palermo

Biotechnological innovations in fermentation processes in the brewing industry

13.30-13.50 Pietro Cannazza, University of Milano

Biocatalytic and fermentative approaches for the production of added value compounds using wild type and genetically modified acetic acid bacteria (AAB)

12.30-14.00 Poster session: Poster (pre-recorded oral presentation) & Miniposter

15:00 - 16:30

Parallel session #7: Food analysis, Virtual room 7

Chairs: Chiara Dall'Asta (University of Parma), Antonella Verzera (University of Messina)

15.00-15.20 Annalisa Scroccarello, University of Teramo

Development of nanomaterial-based smart-devices for food analysis: towards a new generation of analytical tools

15.20-15.40 Matilde Tura, University of Bologna

Harmonized analytical protocols of medical, herbal, food and industrial cannabis: development and validation of cannabinoids quality control methods and preparation of derivatives from the plant raw material

15.40-16.00 Alessio Tugnolo, University of Milano

Feasibility studies and engineering of optical simplified and stand-alone devices for agrifood applications

16.00-16.20 Annacristina D'Agostino University of Molise

Evaluation of domestic cooking on the content of bioactive compounds in green leafy vegetables

15:00 - 16:30

Parallel session #8: Food analysis, Virtual room 8

Chairs: Donatella Albanese (University of Salerno), Fabio Mencarelli (University of Pisa)

15.00-15.20 Ornella Kongi Mosibo, University of Bolzano

Study of lipid oxidation reaction by isothermal calorimetry

15.20-15.40 Giulia Spaggiari, University of Parma

In silico methods for the detection of endocrine disruptors in food (FA)

15.40-16.00 Tchouakeu Betnga Prudence Fleur, University of Bolza

Interaction studies of closure systems for winery products

16.00-16.20 Giusy Rita Caponio, University of Bari

Evaluation of chemical and nutritional quality of foods through meta-omics approaches

15:00 - 16:30

Parallel session #9: Functional foods, Virtual room 9

Chairs: Maria De Angelis (University of Bari), Angela Capece (University of Basilicata)

15.00-15.20 Vincenzo Castellone, University of Parma

Bioactive compounds from lactic acid bacteria: beneficial effects of fermented foods

15.20-15.40 Angela Bianco, University of Sassari

Study of the biotechnological potentials of brewers' spent grain: from waste product to raw material

15.40-16.00 Melania Casertano, University of Napoli

Selection of psychobiotic microorganisms and development of a dietary supplement with potential effect on mental health

16.00-16.20 Alessio Da Ros, University of Teramo

Microbiome-tailored foods and supplements based on typical Mediterranean Diet components

15.00-16.30 Poster session: Poster (pre-recorded oral presentation) & Miniposter

17:00 – 18:00 - Meeting of PhD coordinators

Wednesday, 15 September, 2021

9:00 – 10:00 - Meeting of Costal coordinators

9:00 - 10:30

Parallel session #10: Food by-product, Virtual room 10

Chairs: Marco Poiana (University of Reggio Calabria), Matteo Scampicchio (University of Bolzano)

9.00-9.20 Francesca Curci, University of Bari

Study, analysis, biological evaluation, and formulation of nutraceuticals from unconventional foods and by-products of food matrices of the Mediterranean area

9.20-9.40 Giovanni D'Auria, University of Napoli

A full proteomic profiling of Moringa oleifera leaves for application as a novel food (FQ)

9.40-10.00 Ana Cristina De Aguiar Saldanha Pinheiro, University of Bologna

Optimization of emerging treatments for seafood products and by-products valorization

10.00-10.20 Dario Mercatante, University of Bologna

Valorization of by-products and waste from agri-food industries, and their utilization for innovative food formulation

9:00 - 10:30

Parallel session #11: Packaging and shelf-life, Virtual room 11

Chairs: Silvana Cavella (University of Napoli), Giorgia Spigna (University of Piacenza)

9.00-9.20 Stefania Camellini, University of Bologna Mo-Re

Edible antimicrobial coating with a mixture of essential oils against *Listeria monocytogenes* on seafood products (FP)

9.20-9.40 Imeneo Valeria, University of Reggio Calabria

Valorisation of food industry by-products through their use as functional ingredients and for shelf-life extension of food products

9.40-10.00 Begum Akgum, University of Milano

Potential and pitfalls of cellulose nanocrystals in advanced packaging materials: their role in food safety

10.00-10.20 Cesare Rovera, University of Milano

Reinforced plastics and bioplastics using added value additives extracted from food agrowastes

9:00 - 10:30

Parallel session #12: Biocontrol strategies and microbial virulence, Virtual room 12

Chairs: Viviana Corich (University of Padova), Severino Zara (University of Sassari)

9.00-9.20 Simin Sabaghian, University of Bologna

Identification of a novel biocontrol agent inhibiting the grapevine fungal pathogen using proteomic approaches

9.20-9.40 Giorgia Catinella, University of Milano

Synthesis of novel multitarget antimicrobial compounds

9.40-10.00 Buzzanca Davide, University of Torino

Study of *Aliarcobacter butzleri* virulence mechanism during simulated infection of human gut models

10.00-10.20 Angelo Caporusso, University of Basilicata

Biotechnological transformation processes of agro-industrial by- products in high addedvalue bio-products

Parallel session #13: Food quality and preference, Virtual room 13

Chairs: Ella Pagliarini (University of Milano), Antonello Piga (University of Sassari)

9.00-9.20 Ottavia Prestia, University of Messina

Design and development of a lactose free pasta filata cheese: the PAT Provola of the Calabrian Region (FQ)

9.20-9.40 Julia Sick, University of Firenze

A novel tool to measure food-elicited emotions in children: the emoji-group questionnaire (EGQ)

9.40-10.00 Elisa Mani, University of Firenze

Factors underlying individual differences in response to oral tactile stimulation

10.00-10.20 Valentina Di Nardo, University of Molise

The "fate" of folates from durum wheat to whole-meal pasta (FQ)

10.20-10.40 Herdis Agovi, University of Firenze

Implicit and explicit methods to evaluate sensory, affective and attentive responses to plant-based products

10:30 - 11:00 - Presentation of 5th Edition of "What for?" Award - Federalimentare.

Presentation of the videos of the 6 finalists (2 minutes for each video). Announcement of the winner and awarding ceremony.

11:00 – 12:30 – Tavola rotonda sul tema: "Dottorato industriale: la ricerca per le imprese e con le imprese: esperienze aziendali e ruolo del Ministero dell'Università e della Ricerca".

Livan Fratini (Unipa); Francesca Galli (MUR-Ricerca); Mauro Fontana (Cluster Nazionale Agri-Food) – Emanuele Marconi (CUN) – Piero Fici (Campari, Amaro Averna) – Donato Di Donna (Cappadonia gelati) – Giuseppe Bursi (Cantine Settesoli) – Tiziano Caruso (Unipa).

Coordina il Prof. Carlo Amenta (Unipa).

12:30 - 13:00 - Closing remarks