INTERNATIONAL CONFERENCE ON FERMENTED FOODS

MONDAY, 27.10.2025

11:00 REGISTRATION

NOI TECHPARK, BOLZANO, ITALY

14:00−14:25 ● Philipp Achammer

Provincial Minister for Research and Innovation

Vincent Mauroit

Director of Innovation & Tech Transfer, NOI AG

Marco Gobbetti

Chief Scientist, NOI AG, and Chair of the Conference

WELCOME ADDRESS AND CONFERENCE OPENING

14:25-15:00 ● Maria Marco

University of California, USA

OPENING LECTURE: DECONSTRUCTING THE COMPLEXITY OF HEALTH BENEFITS FROM FERMENTED FOODS

SESSION 1: PLANT FERMENTED FOODS

Chairpersons ● Raffaella Di Cagno

Free University of Bozen-Bolzano, Italy

• Pasquale Filannino

University of Bari Aldo Moro, Italy

15:00–15:30 ● Nam Soo Han

Chungbuk National University, South Korea INVITED SPEAKER: KIMCHI AND ITS INDUSTRIAL

PRODUCTION

15:30–15:45 ● Erica Pontonio

University of Bari Aldo Moro, Italy

ENHANCING TECHNO-FUNCTIONAL PROPERTIES OF PEA FLOUR THROUGH COMBINED ENZYMATIC AND LACTIC ACID FERMENTATION FOR A NOVEL VEGAN SPREAD

15:45–16:00 ● Eugenio Parente

University of Basilicata, Italy

EXPLORING YEAST COMMUNITIES IN ALCOHOLIC BEVERAGES USING THE FOODMICROBIONET DATABASE

16:00-16:30 COFFEE BREAK & POSTER VIEWING

16:30–17:00 ● Jian Zhao

University of New South Wales, Australia

INVITED SPEAKER: FERMENTATION OF COFFEE BEANS AND ITS IMPACT ON THE FLAVOUR OF COFFEE

17:00−17:15 • Nicola Pacher

BOKU University, Austria

BACILLACEAE IN ROPY BREAD SPOILAGE: TAXONOMIC DIVERSITY, VIRULENCE FACTORS AND SPOILAGE DYNAMICS

17:15–17:30 ● Ali Zein Alabiden Tlais

Free University of Bozen-Bolzano, Italy

BEYOND FATTY ACIDS: NEW INSIGHTS INTO BACTERIAL FATTY ACID DERIVATIVES USING AVOCADO FERMENTATION AS A MODEL SYSTEM

17:30–17:45 ● Benedetta Bottari

University of Parma, Italy

LACTIC FERMENTATION AS A BIOVALORISATION STRATE-GY FOR BLUE CRAB (CALLINECTES SAPIDUS): FROM GARUM PRODUCTION TO ANTIMICROBIAL EXTRACTS

17:45–18:00 ● Susanne Miescher Schwenninger

Zurich University of Applied Sciences, Switzerland

BIO-VALORISATION OF SWISS YELLOW PEAS THROUGH FERMENTATION WITH FUNCTIONAL MICROORGANISMS FOR SUSTAINABLE FOOD APPLICATIONS

18:00-18:25 FLASH PRESENTATIONS

18:00−18:05 ● Francesca Valerio

National Research Council, Italy

OKRA (ABELMOSCHUS ESCULENTUS L.) FLOUR INTE-GRATION IN WHEAT-BASED SOURDOUGH: EFFECT ON NUTRITIONAL AND TECHNOLOGICAL OUALITY OF BREAD

18:05–18:10 ● Fabienne Vertè

Puratos NV, Belgium

INNOVATIVE FOOD FERMENTATION: CASE STUDIES RELATED TO COCOA MONOCLONAL VARIETIES AND TROPICAL MANGO (PHILIPPINES)

18:10–18:15 ● Markus Brandt

Ernst Böcker GmbH Co. KG, Germany

FERMENTED LEGUME-VEGETABLES AS A SEASONING INGREDIENT

18:15–18:20 ● Wannes van Beeck

University of Antwerp, Belgium

SONMAT: A CITIZEN-SCIENCE ENABLED KIMJANG KIMCHI CASE STUDY ON ASSOCIATIONS BETWEEN HAND AND KIMCHI MICROBIOTA

18:20–18:25 ● Nicola Mangieri

University of Milan, Italy

TECHNOLOGICAL CHARACTERISATION AND SAFETY EVALUATION OF ACETIC ACID BACTERIA ISOLATED FROM ARTISANAL KOMBUCHA

18:30 WELCOME APERITIF

NOI TECHPARK BOLZANO, ITALY

27–30TH OF OCTOBER 2025

TUESDAY, 28.10.2025

SESSION 2: ANIMAL FERMENTED FOODS

Chairpersons ● Stefan Weckx

Vrije Universiteit Brussel, Belgium

Yong-Su Jin

University of Illinois, USA

08:30−09:00 • Luca Simone Cocolin

University of Torino, Italy

INVITED SPEAKER: THE CHALLENGE OF MICROBIOME BIOBANKING AND STORAGE: THE CASE OF FERMENTED SAUSAGES

09:00−09:15 ● Françoise Leroi

Ifremer, France

THE SUCCESS OF COLD-SMOKED SALMON BIO-PRESER-VATION DEPENDS ON THE PROTECTIVE CULTURE AND MICROBIOME SIGNATURE OF THE PROCESSING PLANT

09:15-09:30 ● Jerome Mounier

INRAE, France

MICROBIOTA ASSOCIATED WITH COMMERCIAL DRY-AGED BEFF IN FRANCE

09:30-10:00 ● Effie Tsakalidou

Agricultural University of Athens, Greece

INVITED SPEAKER: DAIRY FOODS: FROM OLD TRADITIONS TO NEW CHALLENGES

10:00-10:25 FLASH PRESENTATIONS

10:00–10:05 ● Véronique Zuliani

Novonesis, France

INNOVATIVE USE OF FOOD CULTURES FOR MEAT AND OTHER READY-TO-EAT PRODUCTS

10:05–10:10 ● Vincent Herve

Université Paris-Saclay, France

SCRATCHING ON FRENCH PDO CHEESE SURFACES SHEDS LIGHT ON UNEXPLORED MICROBIAL GENOMIC AND METABOLIC DIVERSITY

10:10-10:15 ● Martina Moretton

Fondazione Edmund Mach, Italy

MONITORING THE EFFECT OF RAW MILK REFRIGERATION ON KEFIR FERMENTATION: IMPLICATIONS FOR QUALITY AND SAFETY

10:15-10:20 ● Giuliana Garofalo

University of Palermo, Italy

VALORISING OLIVE OIL MILL WASTEWATER AS A FUNCTIONAL INGREDIENT IN TRADITIONAL ITALIAN BREAD TO MITIGATE OXIDATIVE STRESS ASSOCIATED WITH RED MEAT CONSUMPTION

10:20-10:25 ● Miriam Zago

Research Council for Agriculture and Economics, Italy PRODUCTION AND COMPOSITION OF A CACIOTTA WITH HIGH RATIO OF CA/P FOR POSSIBLE USE IN PATIENTS WITH CHRONIC RENAL FAILURE

10:25-10:55 COFFEE BREAK & POSTER VIEWING

10:55–11:25 ● Alan Kelly

University College Cork, Ireland

INVITED SPEAKER: IMPACT OF COAGULANT SELECTION ON FLAVOUR, TEXTURE AND FUNCTIONALITY OF CHEESE

11:25–11:40 ● Christian Coelho

Université Clermont Auvergne, France

RAW COW MILK FROM PASTURE IN THE PDO MASSIF CENTRAL CHEESE REGION – TO WHAT EXTENT CAN ORIGIN BE KEPT DURING FERMENTATION?

11:40–11:55 ● Vincent Somerville

Université Laval, Canada

PHAGE AND BACTERIAL HOST CO-EVOLUTION IN NATURAL WHEY STARTER CULTURE OVER AN ENTIRE CHEESEMAKING SEASON

SESSION 3: FOOD MICROBIOMES

Chairpersons ● Effie Tsakalidou

Agricultural University of Athens, Greece

• Eddy J. Smid

Wageningen University, The Netherlands

11:55–12:25 ● Luc de Vuyst

Vrije Universiteit Brussel, Belgium

INVITED SPEAKER: FERMENTED FOOD MICROBIOTA: COMPLEX INTERRELATIONSHIPS VS. OPPORTUNISTIC INVADERS

12:25-13:55 LUNCH & POSTER VIEWING

13:55–14:25 ● Nicholas Bokulich

ETH Zürich, Switzerland

INVITED SPEAKER: MULTI-OMICS INTERROGATION OF FERMENTED FOOD MICROBIOMES

14:25–14:40 ● Olga Nikoloudaki

Free University of Bozen-Bolzano, Italy

ECOLOGICAL ROLE-BASED ASSEMBLY OF SYNTHETIC SOURDOUGH ECOSYSTEMS ENSURE ROBUSTNESS AND REPRODUCIBILITY IN SOURDOUGH FERMENTATION

14:40−14:55 • Thomas Gettemans

Vrije Universiteit Brussel, Belgium

EXPLORATION OF THE MICROBIAL AND METABOLITE DIVERSITY OF HOUSEHOLD AND ARTISAN BAKERY SOURDOUGHS THROUGH A CITIZEN SCIENCE APPROACH

14:55–15:10 ● Lorenza Conterno

Laimburg Research Centre, Italy

TIME-COURSE METAGENOMICS ANALYSIS DEFINING SUSTAINABLE FOOD FLAVOURING PRODUCTION

15:10-15:25 ● Francesca Cristetti

University of Turin, Italy

VINEYARD EFFECT ON MICROBIAL COMMUNITIES AND FERMENTATION DYNAMICS OF NEBBIOLO GRAPES: A MICROBIAL PERSPECTIVE ON TERROIR

15:25–15:40 ● Annina Meyer

ETH Zurich, Switzerland

MAPPING THE BIOGEOGRAPHY OF SOURDOUGH MICRO-BIOMES THROUGH NEXT-GENERATION CITIZEN SCIENCE

15:40−15:55 ● Pier Sandro Cocconcelli

Università Cattolica del Sacro Cuore, Italy

THE EVOLVING SAFETY LANDSCAPE OF FOOD FERMENTING MICROORGANISMS: FROM TRADITIONAL ASSESSMENT TO GENOME EDITING

15:55–16:10 ● Tanja Kostic

Austrian Institute of Technology & Microbiome Support Association, Austria

FERMENTED FOODS AND THE FOOD SYSTEM: WHY A HOLISTIC PERSPECTIVE MATTERS

16:10-16:40 COFFEE BREAK & POSTER VIEWING

16:40–17:10 ● Danilo Ercolini

University of Naples Federico II, Italy

INVITED SPEAKER: FOOD MICROBIOMES: THEIR IMPORTANCE FOR FOOD QUALITY AND THE CONNECTION TO THE GUT ECOSYSTEM

17:10–17:25 ● Iva Fernandes

Universidade do Porto, Portugal

FERMENTED FRUIT JUICES AS A SOURCE OF BIOACTIVE ORGANIC ACIDS: UNVEILING THEIR ROLE IN ADIPOGENESIS AND METABOLIC HEALTH

17:25-17:45	FLASH PRESENTATIONS	WEDNESDAY, 29.10.2025	11:30-12:00	Christophe Courtin
17:25-17:30	Ayité Adama Hondegla	,		KU Leuven, Belgium INVITED SPEAKER: GRAIN-BASED FOOD FERMENTATIONS
	Université Paris-Saclay, France ASSEMBLING MICROBIAL CONSORTIA FOR LEGUME-	SESSION 4: FERMENTED FOODS AND HEALTH		AS A TOOL TO PRODUCE HEALTH-PROMOTING FOODS
	BASED MATRIX FERMENTATION	Chairpersons ● Maria Marco University of California, USA	12:00-12:20	FLASH PRESENTATIONS
17:30-17:35	 Rachelle Alhosry University of Montpellier, France MICROBIAL SPECIES DIVERSITY IN KAAK PRODUCTION: INSIGHTS INTO THE ROLE OF CHICKPEA-SOAKED WATER 	● Nam Soo Han Chungbuk National University, South Korea 09:00-09:30 ● Douwe van Sinderen	12:00-12:05	 Rosangela Limongelli University of Bari Aldo Moro, Italy PROBIOTICS COMBINED WITH PRICKLY PEAR SEED FLOUR AS A MEANS TO FORTIFY FERMENTED MILK-BASED
17:35-17:40	Alessia Levante	University College Cork, Ireland INVITED SPEAKER: BIFIDOBACTERIA AS BENEFICIAL		BEVERAGES
	University of Parma, Italy HAS LACTOBACILLUS HELVETICUS CHANGED OVER 50	MICROBES DURING EARLY LIFE: WHERE, WHAT AND HOW?	12:05-12:10	 Merve Sena Topkaya University of Health Sciences, Türkiye
	YEARS? A GENOMIC AND TECHNOLOGICAL CHARACTERI- ISATION OF RECENT AND OLD STRAINS	09:30-09:45 ● Vimac Nolla Ardevol Puratos, Belgium ADVANCING GUT HEALTH IN BAKERY WITH POSTBIOTIC-		DOES MATERNAL CONSUMPTION OF FERMENTED FOODS AFFECT NEONATAL HEALTH?
17:40-17:45	 Neža Čadež Univerza v Ljubljani, Slovenia 	ENRICHED SOURDOUGHS	12:10-12:15	● Celine Verdonck KU Leuven, Belgium
	INSIGHTS INTO THE DEVELOPMENT OF NOVEL BREWING YEAST STRAINS THROUGH ADAPTIVE LABORATORY EVOLUTION	09:45–10:00 ● David Rodriguez-Lazaro University of Burgos, Spain INVITED SPEAKER: THE GOOD, THE BAD AND THE UGLY: STORY OF FERMENTED FOODS AND (GLOBAL) HEALTH		SOURDOUGH STARTER CULTURE AND BREADMAKING PROCESS IMPACT WHOLEMEAL BREAD CHARACTERISTICS ASSOCIATED WITH STARCH DIGESTIBILITY
19:30	LIGHT DINNER	10:00-10:15 ● Elisa Salvetti	12:15-12:20	Roberta Prete University of Torono, Italy
		University of Verona, Italy REDUCED BIOCIDE SUSCEPTIBILITY IN COMPANILACTO- BACILLUS: A GENOME-TO-PHENOTYPE STUDY WITH IMPLICATIONS FOR THE INTEGRATED SAFETY ASSESS- MENT OF LACTIC ACID BACTERIA		University of Teramo, Italy ENRICHMENT OF FERMENTED OLIVE PATÈ WITH LACTI- PLANTIBACILLUS PLANTARUM AS A BIOLOGICAL STRATEGY TO ENHANCE ANTI-INFLAMMATORY ACTIVITY AND GUT MODULATION
		10:15–10:30 ● Paola Roncaglia	12:20-13:50	LUNCH & POSTER VIEWING
		SciBite, BioData Innovation Centre, United Kingdom		SOCIAL PROGRAMME
		A FUNCTIONAL FOODS ONTOLOGY: SYSTEMATISING BIOACTIVE INGREDIENTS OF FOODS FOR SPECIFIED HEALTH USES (FOSHU) IN JAPAN	19:30	CONFERENCE DINNER
		10:30–10:45 ● Davide Gottardi		
		10:45-11:00 • Yong-Su Jin University of Illinois, USA		

GENOME EDITING OF YEAST AND LACTIC ACID BACTERIA FOR SAFER, TASTIER AND HEALTHIER FERMENTED FOODS

11:00-11:30 COFFEE BREAK & POSTER VIEWING

THURSDAY, 30.10.2025

SESSION 5: ALTERNATIVE FERMENTED FOODS

Chairpersons ● Rosalba Lanciotti

University of Bologna, Italy

David Rodriguez-Lazaro
 University of Burgos, Spain

09:00-09:30 ● Eddy J. Smid

Wageningen University, The Netherlands

INVITED SPEAKER: SOLID-STATE FUNGAL FERMENTATION OF PLANT-BASED SUBSTRATES IMPROVES THE OVERALL PROTEIN QUALITY

09:30-09:45 ● Joshman Villa Macas

Wageningen University, The Netherlands

BIOPURIFICATION OF PULSE PROTEIN CONCENTRATES BY LACTIC ACID BACTERIA

09:45–10:00 ● Laura Nyhan

University College Cork, Ireland

LACTIC ACID BACTERIA FERMENTATION FOR THE VALORI-SATION OF BREWER'S SPENT YEAST: ENHANCING NUTRI-TIONAL, FUNCTIONAL AND SENSORY CHARACTERISTICS

10:00−10:15 • Melania Casertano

Wageningen University, The Netherlands

BIOPROCESSING FOOD SIDE STREAMS: FERMENTATION AS A SUSTAINABLE TOOL FOR FUNCTIONAL INGREDIENT DEVELOPMENT

10:15–10:30 ● Yuyun Lu

National University of Singapore, Singapore

TROPICAL FRUIT WINES AND BEVERAGES FERMENTED WITH YEASTS AND LACTIC ACID BACTERIA

10:30−11:00 • Carlo G. Rizzello

Sapienza University of Rome, Italy

INVITED SPEAKER: UPCYCLING OF AGRI-FOOD SIDE STREAMS VIA FERMENTATION: ADVANCING TOWARDS "ZERO-WASTE" SUPPLY CHAINS IN PLANT FERMENTED FOODS

11:00-11:30 COFFEE BREAK & POSTER VIEWING

11:30–12:00 ● Emanuele Zannini

Sapienza University of Rome, Italy

INVITED SPEAKER: CRAFTING FUTURE FOODS: THE TRANSFORMATIVE ROLE OF FOOD FERMENTATION

12:00–12:15 ● Òscar Boronat Nielsen

CETT Barcelona School of Tourism, Hospitality and Gastronomy, Spain

FLAVOUR-DRIVEN FERMENTATION: UNLOCKING OKARA'S POTENTIAL

12:15–12:30 ● Adelfo Escalante

Universidad Nacional Autónoma de México, México

UNCOVERING THE STABLE MICROBIAL CORE OF PULQUE: INSIGHTS FROM A TRADITIONAL MEXICAN FERMENTATION

12:30-13:00 ● Shao Quan Liu

National University of Singapore, Singapore INVITED SPEAKER: MICROALGAE AS ALTERNATIVE PROTEIN-RICH MICROBIAL BIOMASS

13:00-13:25 FLASH PRESENTATIONS

13:00–13:05 ● Oscar van Mastrigt

Wageningen University, The Netherlands

FERMENTED HYBRID CHEESE: SUSTAINABLE, TASTY AND NUTRITIOUS

13:05–13:10 ● Herwig Bachmann

NIZO Food Research, The Netherlands

SENSORY QUALITY AND SAFETY OF PLANT-BASED AND HYBRID FOODS: THE ROLE OF FERMENTATION, MICROBIAL GROWTH AND SUBSTRATE AVAILABILITY

13:10−13:15 • Antonio Del Casale

Microbion, Verona, Italy

BOOSTERS AND HURDLES TOWARD INNOVATION IN FERMENTED FOODS

13:15-13:20 ● Cornelia Bär

Agroscope, Bern, Switzerland

DEVELOPMENT OF FUNCTIONAL FERMENTED FOODS TO UPPORT HUMAN HEALTH

13:20-13:25 ● Chin Xin Hui

National University of Singapore, Singapore
MODULATING THE AROMA AND TASTE PROFILE OF
SOYBEAN USING NOVEL STRAINS FOR FERMENTATION

13:25-13:45 BEST ORAL PRESENTATION AND BEST POSTER AWARDS

13:45-13:55 CLOSING REMARKS, ACKNOWLEDGEMENTS AND ANNOUNCEMENT OF THE 2ND INTERNATIONAL CONFERENCE ON FERMENTED FOODS

13:55 LIGHT LUNCH



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