INTERNATIONAL CONFERENCE ON FERMENTED FOODS

NOI TECHPARK

BOLZANO, ITALY

27-30TH

2025

OF OCTOBER

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

16:30–16:45 ● Raffaella Di Cagno

Free University of Bozen-Bolzano, Italy

Matthias Fill

NOI AG, Italy
FROM RESEARCH TO INNOVATION: ICOFF AND

NOI TECHPARK

16:45–17:15 ● Jian Zhao

University of New South Wales, Australia

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

17:15–17:30 ● Nicola Pacher

BOKU University, Austria

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

17:30–17:45 ● 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

17:45–18:00 ● Benedetta Bottari

University of Parma, Italy

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

18:00–18:15 ● Susanne Miescher Schwenninger

Zurich University of Applied Sciences, Switzerland

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

18:15-18:40 FLASH PRESENTATIONS

18:15–18:20 ● Francesca Valerio

National Research Council, Italy

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

18:20–18:25 ● Fabienne Vertè

Puratos NV, Belgium

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

18:25–18:30 ● Markus Brandt

Ernst Böcker GmbH Co. KG, Germany

FERMENTED LEGUME-VEGETABLES AS A SEASONING INGREDIENT

18:30-18:35 ● Wannes van Beeck

University of Antwerp, Belgium

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

18:35–18:40 ● Nicola Mangieri

University of Milan, Italy

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

18:45 WELCOME APERITIF

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 BEEF 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 SOUR-DOUGHS 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 Mever

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	• CI
17:25–17:30	 Ayité Adama Hondegla Université Paris-Saclay, France ASSEMBLING MICROBIAL CONSORTIA FOR LEGUME- BASED MATRIX FERMENTATION 	SESSION 4: FERMENTED FOODS AND HEALTH			INVI AS A
		Chairpersons	Maria Marco Maria Marco Maria Marco	12:00-12:20	FLA
17:30-17:35	● Rachelle Alhosry University of Montpellier, France MICROBIAL SPECIES DIVERSITY IN KAAK PRODUCTION: INSIGHTS INTO THE ROLE OF CHICKPEA-SOAKED WATER		University of California, USA ● Nam Soo Han Chungbuk National University, South Korea	12:00-12:05	U PRO
		09:00-09:30	 Douwe van Sinderen University College Cork, Ireland 		AS A BEV
17:35–17:40	 Alessia Levante University of Parma, Italy HAS LACTOBACILLUS HELVETICUS CHANGED OVER 50 YEARS? A GENOMIC AND TECHNOLOGICAL CHARACTERI-ISATION OF RECENT AND OLD STRAINS 		INVITED SPEAKER: BIFIDOBACTERIA AS BENEFICIAL MICROBES DURING EARLY LIFE: WHERE, WHAT AND HOW?	12:05-12:10	• M
		09:30-09:45	Vimac Nolla Ardevol Puratos, Belgium ADVANCING CLIT HEALTH IN BAKEDY WITH DOSTRIOTIC		DOE AFF
17:40-17:45	● Neža Čadež Univerza v Ljubljani, Slovenia INSIGHTS INTO THE DEVELOPMENT OF NOVEL BREWING YEAST STRAINS THROUGH ADAPTIVE LABORATORY EVOLUTION		ADVANCING GUT HEALTH IN BAKERY WITH POSTBIOTIC- ENRICHED SOURDOUGHS	12:10-12:15	• C
		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 (CLORAL) HEALTH.		SOU PRO TICS
19:30	LIGHT DINNER		STORY OF FERMENTED FOODS AND (GLOBAL) HEALTH	12:15-12:20	• R
		10:00-10:15	● Elisa Salvetti 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		ENR PLA STR AND
		10.15_10.30	● Paola Roncaglia	12:20-13:50	LUN
		10.13 10.30	SciBite, BioData Innovation Centre, United Kingdom A FUNCTIONAL FOODS ONTOLOGY: SYSTEMATISING		soc
			BIOACTIVE INGREDIENTS OF FOODS FOR SPECIFIED HEALTH USES (FOSHU) IN JAPAN	19:30	CON
		10:30-10:45	Davide Gottardi University of Bologna, Italy TARGETED FERMENTATION OF CHICKPEA FLOUR ENHANCES NUTRITIONAL VALUE AND GUT HEALTH- PROMOTING PROPERTIES		
		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		

Christophe Courtin

KU Leuven, Belgium

VITED SPEAKER: GRAIN-BASED FOOD FERMENTATIONS A TOOL TO PRODUCE HEALTH-PROMOTING FOODS

ASH PRESENTATIONS

Rosangela Limongelli

University of Bari Aldo Moro, Italy

ROBIOTICS COMBINED WITH PRICKLY PEAR SEED FLOUR A MEANS TO FORTIFY FERMENTED MILK-BASED EVERAGES

Merve Sena Topkaya

University of Health Sciences, Türkiye

DES MATERNAL CONSUMPTION OF FERMENTED FOODS FFECT NEONATAL HEALTH?

Celine Verdonck

KU Leuven, Belgium

OURDOUGH STARTER CULTURE AND BREADMAKING ROCESS IMPACT WHOLEMEAL BREAD CHARACTERIS-CS ASSOCIATED WITH STARCH DIGESTIBILITY

Roberta Prete

University of Teramo, Italy

IRICHMENT OF FERMENTED OLIVE PATÈ WITH LACTI-LANTIBACILLUS PLANTARUM AS A BIOLOGICAL FRATEGY TO ENHANCE ANTI-INFLAMMATORY ACTIVITY ND GUT MODULATION

INCH & POSTER VIEWING

OCIAL PROGRAMME

ONFERENCE DINNER

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

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

10:45-11:15 COFFEE BREAK & POSTER VIEWING

11:15–11:45 ● Emanuele Zannini

Sapienza University of Rome, Italy

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

11:45–12:00 ● Òscar Boronat Nielsen

CETT Barcelona School of Tourism, Hospitality and Gastronomy

FLAVOUR-DRIVEN FERMENTATION: UNLOCKING OKARA'S POTENTIAL

12:00–12:15 ● Adelfo Escalante

Universidad Nacional Autónoma de México, México
UNCOVERING THE STABLE MICROBIAL CORE OF PULQUE:
INSIGHTS FROM A TRADITIONAL MEXICAN FERMENTATION

12:15-12:45 ● Shao Quan Liu

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

12:45-13:10 FLASH PRESENTATIONS

12:45–12:50 ● Oscar van Mastrigt

Wageningen University, The Netherlands

FERMENTED HYBRID CHEESE: SUSTAINABLE, TASTY AND NUTRITIOUS

12:50–12:55 ● 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

12:55–13:00 ● Antonio Del Casale

Microbion, Verona, Italy

BOOSTERS AND HURDLES TOWARD INNOVATION IN FERMENTED FOODS

13:00-13:05 ● Cornelia Bär

Agroscope, Bern, Switzerland

DEVELOPMENT OF FUNCTIONAL FERMENTED FOODS TO UPPORT HUMAN HEALTH

13:05-13:10 ● Chin Xin Hui

National University of Singapore, Singapore

MODULATING THE AROMA AND TASTE PROFILE OF SOYBEAN USING NOVEL STRAINS FOR FERMENTATION

13:10-13:30 BEST ORAL PRESENTATION AND BEST POSTER AWARDS

13:30-13:40 CLOSING REMARKS, ACKNOWLEDGEMENTS AND ANNOUNCEMENT OF THE 2ND INTERNATIONAL CONFERENCE ON FERMENTED FOODS

13:40 LIGHT LUNCH



NOI TECHPARK SÜDTIROL / ALTO ADIGE

VIA A.-VOLTA-STRASSE 13/A I-39100 BOZEN / BOLZANO

T +39 0471 066 600 INFO@NOI.BZ.IT NOI.BZ.IT

INTERNATIONAL CONFERENCE ON FERMENTED FOODS

ICFF@NOI.BZ.IT