

**A joint lipid conference 2026
21st GERLI international lipid meeting
65th International Community on the Bioscience of Lipids**

LIPIDS

IN ALL STATES

**FROM MEDICINE AND PHARMACY
TO PHYSICAL CHEMISTRY AND PLANT SCIENCES**

Bordeaux, FRANCE
September 21–24, 2026



PROGRAM

CONTENTS

GENERAL INFORMATION

Welcome to Bordeaux for the ICBL-GERLI Conference	4
Organizing and Scientific Committees	6
ICBL Steering Committee and GERLI Scientific Council	7
Invited Speakers	8
Our partners	20
Institutional and Private Sponsors	21

PROGRAM

Scientific Program	30
--------------------	----



Welcome to Bordeaux for the ICBL-GERLI Conference

Dear Attendees,

The ICBL (International Conference on Lipid Biosciences) and the GERLI (Lipid Study and Research Group, France) are joining forces to organize a symposium on lipid science entitled “Lipids In All States.” This symposium will be held in Bordeaux, a magnificent city known worldwide for its renowned wines, cultural heritage, and scientific activities.

The conference venue is located on the University of Bordeaux campus, in a former church that has been converted into a magnificent conference hall, baptized Agora. The poster sessions will take place in the cloister. We hope that these surroundings will inspire the mind and foster elevated intellectual exchanges in the field of lipid science, among others.

As we know, lipids are ubiquitous. A wide variety of topics will therefore be covered, including Membrane Lipids, Lipids in Algae and Plants, Lipids in Nutrition and Health, Lipids in the Brain, Biopolymers and Lipids, Lipids Biodiversity, Lipids in Medicine and Pharmacy, as well as Lipids, Analysis and Technology.

The conference will begin on Monday, September 21, with a workshop on lipid and membrane imaging techniques, a rapidly expanding field. It will be followed by two opening lectures: the GERLI lecture and the ICBL lecture.

We look forward to your active participation through invited lectures, oral presentations, one-minute flash-talk poster presentations, poster discussions during the eight scientific sessions, the two poster sessions as well as a session dedicated to technological and industrial challenges and the role of artificial intelligence in science.

Participation in pseudoscientific activities, such as the public lecture on tannins and lipids in wine, accompanied by hands-on wine and cheese tasting workshops, will also be encouraged on Wednesday afternoon during the wine tour and congress diner.

We look forward to welcoming you in Bordeaux!

On behalf of the Scientific and Organizing Committees

Erick Dufourc, Chair and Hubert Schaller, co-chair and GERLI president

Organizing Committee



Eric DUFOURC
CNRS/UB
Chair



Hubert SCHALLER
CNRS/US
GERLI President



Benjamin BUAUD
ITERG
Secretary



Frédéric DOMERGUE
CNRS/UB
GERLI Treasure/Web



Frédéric CARRIERE
CNRS/AMU
Web



Jean-David LEAO
ITERG



Claudie GESTIN
ITERG



Cécile GLADINE
INRAE/UCA
GERLI



Sophie LAYE
INRAE/UB



Fernando LEAL CALDERON
INP/UB



Lou MARECHAL
ITERG



Sébastien MONGRAND
CNRS/UB

Scientific Committee



Eric DUFOURC
CNRS/UB
Chair



Hubert SCHALLER
CNRS/US
GERLI President



Benjamin BUAUD
ITERG



Frédéric CARRIERE
CNRS/AMU



Jeanne CHAIN-LEBLOND
INSERM/UB



Henri CRAMAIL
INP/UB



Frédéric DOMERGUE
CNRS/UB



Cécile GLADINE
INRAE/UCA
GERLI



Sophie LAYE
INRAE/UB



Fernando LEAL CALDERON
INP/UB



Sébastien MONGRAND
CNRS/UB



Véronique SCHMITT
CNRS/UB



ICBL Steering committee

- Markus R. WENK, President
 - Katrin WATSCHINGER, Vice-President
 - Maurizio CRESTANI, Secretary
 - Christian WOLFRUM, PR Officer
 - Gwendolyn BARCELO-COBLIJN
 - Markus KELLER
 - Agnieszka DOBRZYN
 - George M. CARMAN
 - Michel LAGARDE
 - Catherine MOUNIER
 - Fritz SPENER
 - Gabor Joseph TIGYI
 - Lazlo VIGH
 - Takehiko YOKOMIZO
 - Makoto ARITA
 - Christian EGDELING
 - J.B. (Bernd) HELMS
 - Jae Ho KIM
 - Wen-Lung (Maverick) MA
 - Valerie O'DONNELL
 - Harini SAMPATH
- 

GERLI scientific council

- Ez-Zoubir AMRI
 - Frédéric CARRIERE, Webmaster
 - Xavier COLLET
 - Benoit COLSCH
 - Sylvie DEMIGNOT
 - Frédéric DOMERGUE, Treasurer
 - Isabelle DUGAIL
 - Thierry DURAND
 - Cécile GLADINE, Secretary
 - Takeshi HARAYAMA
 - Juliette JOUHET
 - Antonin LAMAZIERE
 - Gérard LAMBEAU
 - Yonghua LI-BEISSON
 - Ofelia MANITI
 - Marie-Caroline MICHALSKI
 - Jérôme NIGOU
 - Isabelle NIOT
 - Marc POIROT
 - Vincent RIOUX
 - Hubert SCHALLER, President
 - Philippe SOUDANT
 - Abdou Rachid THIAM
 - Lhousseine TOUQUI
 - Adrian TROCOSO-PONCE
 - Nicolas VITALE
- 

Invited Speakers



Clotilde Théry, Institut Curie, Paris (France)

Clotilde Théry is a professor and INSERM director of research at Institut Curie in Paris, France. She is president of the International Society for Extracellular Vesicles (ISEV), where she previously served as founding secretary general and as editor-in-chief of the Journal of Extracellular Vesicles. She is the team leader of the group « Extracellular Vesicles, Immune Responses and Cancer » within the INSERM Unit 932 focusing on « Immunity and Cancer. » Clotilde Théry researches extracellular vesicles that are released by immune and tumor cells, including exosomes that originate in the multivesicular body. After a PhD in Paris (France), and a post-doc in Oxford (UK) and Columbia Universities (USA), where she studied the development of the nervous system, she turned to the cell biology aspects of immune responses in 1996 when joining the lab of S. Amigorena, at Institut Curie in Paris.

She is the author of more than 300 papers that are cited more than 80 000 times.



George Carman, Rutgers, The State University of New Jersey (USA)

Dr. Carman is a Rutgers University Board of Governors Professor, Distinguished Professor, and Founding Director of the Rutgers Center for Lipid Research.

His laboratory has made significant contributions to the understanding of lipid synthesis and its regulation through the isolation and characterization of key genes and their encoded enzymes. He is an Inaugural Fellow of the American Society for Biochemistry and Molecular Biology and Fellow of the American Academy of Microbiology.

Awards/honors include the Herbert Tabor Research Award, Avanti Award in Lipids, Supelco/Nicholas Pelick Research Award, Faculty Mentor of the Year Award-Compact for Faculty Diversity, Journal of Lipid Research Lectureship Award, Selman A. Waksman Honorary Lectureship Award, and a Highly Ranked Scholar by ScholarGPS. Editorial service includes Associate Editor of *the Journal of Biological Chemistry*, Associated Editor of *the Journal of Lipid Research*, Executive Editor of *Biochimica et Biophysica Acta-Molecular and Cellular Biology of Lipids*, and Executive Editor of Analytical Biochemistry.



Raphaël Rodriguez, Institut Curie, Paris
(France)

Raphaël Rodriguez, is a Director of Research at the CNRS, and a researcher at the Institut Curie, where he holds the Skłodowska-Curie Chair in Chemical Biology.

He trained as a doctoral student and then postdoctoral researcher under the mentorship of Jack Edward Baldwin and Shankar Balasubramanian, with whom he acquired his knowledge of synthetic chemistry and supramolecular chemistry. He then studied cell biology with Stephen Jackson with whom he also co-founded Adrestia Therapeutics. He then joined the Institut Curie in Paris, 2015, where he studied the molecular basis underlying cancer biology.

There, he discovered the key role of metals in regulating the plasticity of cancer and immune cells. He is a member of the Royal Society of Chemistry (FRSC) and was named “Chevalier de l’Ordre National du Mérite”. He has received several distinctions and awards for his scientific contributions, including the Tetrahedron Young Investigator Award, the Klaus Grohe Award, the Lacassagne Award (Collège de France) and the Charles Defforey Grand Prize (Institut de France), the Liliane Bettencourt Prize for Life Sciences in 2023, and the CNRS Silver Medal in 2024.

He published more than 150. Papers which were cited about 10,000 times



Eric Maréchal, Laboratoire Physiologie Cellulaire & Végétale, Grenoble (France)

Eric Maréchal is a CNRS scientist and deputy Director of the Laboratoire de Physiologie Cellulaire & Végétale (LPCV) in Grenoble, France.

His research explores the evolution of algal and plant cell membrane architecture in plastid-containing eukaryotes. He investigates membrane and storage lipid metabolic pathways in the context of evolutionary processes - particularly primary and secondary endosymbiosis - as well as environmental constraints such as nutrient limitation and temperature variation. His experimental models include green algae and plants, diatoms and other stramenopiles, and apicomplexans. More recently, he has developed a strong research focus on the adaptive mechanisms of algae thriving in cryophilic environments, including snow, glaciers and sea ice.

He currently coordinates the AlpAlga project.



Parveen Yaqoob, University of Reading (UK)

Professor Parveen Yaqoob is Deputy Vice-Chancellor and Pro-Vice-Chancellor Research and Innovation at the University of Reading, where she has worked for 27 years.

Her research has focused on nutritional modulation of immune function, inflammation and vascular function, and she has a particular interest in the influence of n-3 polyunsaturated fatty acids on the generation and function of extracellular vesicles.

She has contributed significantly to both national and international research funding panels for food, nutrition and health and was appointed OBE for services to higher education in 2022.



Richard Bazinet, Department of Nutritional Sciences, Temerty Faculty of Medicine, University of Toronto (Canada)

Pr Richard Bazinet is a Professor and Canada Research Chair in Brain Lipid Metabolism at the University of Toronto, internationally recognized for his pioneering research into how fatty acids impact the brain.

His major scientific contributions center on understanding the regulation of brain lipid metabolism, especially the roles of dietary polyunsaturated fatty acids (PUFA) like arachidonic acid (AA), eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) in neurological health. His discoveries have shed light on how these fats are metabolized in brain phospholipids and their critical involvement in neurodegenerative and neuropsychiatric disorders.

Recently, Bazinet's research demonstrated that the liver can generate palmitic acid to support brain health, and his lab's kinetic and biochemical approaches have revealed novel mechanisms regulating fatty acid turnover and inflammation in the brain.

Since 2006, he has published over 250 scientific papers cited more than 7500 times (H43) and contributed to international guidelines on dietary fats for brain health. His work influences policy and public health recommendations worldwide. He is the past-president of the International Society for the Study of Fatty Acids and Lipids, editor-in-chief of Prostaglandins, Leukotrienes and Essential Fatty Acids, and recipient of numerous prestigious awards including the Ralph Holman Lifetime Achievement Award and the Supelco AOCS Research Award for Outstanding, Original Research in Fats, Oils, Lipid chemistry or Biochemistry.



Rochus Benni Franke, Institute of
Cellular and Molecular Botany, Bonn (Germany)

Dr. Rochus Benni Franke graduated with a Diploma in Biology from the University of Kaiserslautern in Germany.

In his PhD research in Dr. Heinrich Kauss' lab in Kaiserslautern and partly in Dr. Steven Fry's lab at University of Edinburgh he studied cell wall modifications during plant defense reactions. As a post-doc in Dr. Clint Chapple's lab Benni chemically phenotyped new lignin-engineered plants. In a second project he identified and biochemically characterized an unaccounted enzyme in the essential phenylpropanoid pathway. As research associate at the University of Heidelberg he investigated and optimized the biosynthesis of tumor inhibiting alkaloids from cultures of medicinal plants.

In 2001 he joined the Institute for Cellular and Molecular Botany at University of Bonn as assistant professor where he initiated molecular genetic research approaches in the field of plant-environment-interfaces. These pioneering analyses resulted in the identification of multiple genes in the formation of physiologically important biopolymers such as cutin, suberin and Casparian strips. Benni continued in Bonn as adjunct professor and research activities focusing on the biosynthesis of apoplastic diffusion barriers and how their chemistry affects the plants water and nutrient homeostasis and biotic interactions.



Manuel Liebeke, Max Planck Institute for
Marine Microbiology, Bremen (Germany)

Manuel Liebeke obtained his PhD in 2010 and went on to specialize in host–microbe interactions with a focus on microbial metabolism.

Since 2024 he is a Professor for Metabolomics at Kiel University, where his lab investigates the chemical basis of microbe-host interactions using mass spectrometry imaging, fluorescence microscopy, and 3D tomography.

His team develops correlative imaging workflows to spatially connect metabolite production with the anatomical and cellular context of both mutualistic and pathogenic microorganisms in animal hosts with a special focus on lipids.

By integrating chemical imaging with high-resolution microscopy, his research reveals the hidden metabolic exchanges that structure host–microbe relationships in situ.



Per Larsson, Department of Pharmacy, Uppsala Biomedical Center, Uppsala University (Sweden)

Per Larsson is an Associate Professor in the Department of Pharmacy at Uppsala University, Sweden, where he leads a research group in computational pharmaceutics within the national drug delivery competence center SweDeliver.

His work uses multiscale simulation, from coarse-grained molecular dynamics to computational fluid dynamics, together with scattering and imaging methods, to understand how the lipids of the gastrointestinal tract shape oral drug performance.

A central theme is the self-assembly of bile salts, phospholipids and digestion-derived fatty acids into the colloidal structures that solubilize poorly water-soluble drugs and modulate the activity of fatty-acid permeation enhancers for oral peptide delivery. Spanning these molecular-to-luminal scales, his simulations have been central to the development of a “virtual intestine”, a multiscale model of drug behavior in the gut.

He holds a PhD from Stockholm University and carried out postdoctoral research at the University of Virginia, USA. He serves on the editorial advisory board of the journal Molecular Pharmaceutics, and has authored more than 50 publications, cited approximately 13,000 times.



Claire Berton-Carabin, Laboratoire
Biopolymères Interactions Assemblages, Nantes (France)

Claire Berton-Carabin is currently Research Director at INRAE (the French National Research Institute for Agriculture, Food and the Environment), in the research unit BIA (Biopolymers, Interactions, Assemblies) in Nantes, France, where she leads a research team of about 30 members, titled Interfaces and Dispersed Systems.

She also holds a Visiting Associate Professor position at Wageningen University and Research (Netherlands) in the Laboratory of Food Process Engineering (FPE), where she was fully appointed between 2013 and 2020.

Before that, she performed her PhD research at INRAE (formerly INRA) and received her PhD degree in 2011. She then conducted two postdoctoral projects (Penn State University, Department of Food Science, USA, 2011-2013; and Danone-Nutricia Research, the Netherlands, 2013).

Claire's research is focussed on understanding the interplay between the structure of food emulsions (in particular, at the level of the oil-water interface) and their functionality and chemical reactivity.

Her research interests therefore range from the characterization of the early formation and stabilization of emulsion droplets, all the way to their subsequent physicochemical stability and final fate during digestion.

To date, Claire is the author of 120 scientific publications with more than 7200 citations, 1 patent and 9 book chapters.

She is a member of the executive board of the French Society for Lipid Research (SFEL). She received the Euro Fed Lipid 'Young Lipid Scientist Award' in 2017, and the 'Promising Researcher Award' of INRAE in 2022.



Katelyn Camille Cook, Max Planck
Institute for Molecular Cell Biology and Genetics, Dresden
(Germany)

A cell biologist at heart and a mass spectrometrist by training, Katelyn develops interdisciplinary workflows to uncover the organizing principles of organelle membranes.

She is a postdoctoral scientist at the Max Planck Institute for Molecular Cell Biology and Genetics in Dresden, which she joined in 2023 after earning her PhD in Molecular Biology from Princeton University in 2022 and her BA in Molecular, Cellular, and Developmental Biology from the University of Colorado Boulder in 2016.

Working with André Nadler, Katelyn recently established a discovery pipeline for mechanistic lipid cell biology that uses bifunctional phospholipid probes, lipid imaging, and proteomic affinity capture to map the protein interactomes of individual lipid species and generate testable hypotheses about lipid function and the formation of specialized membrane domains.

GERLI and ICBL thank all institutional and private sponsors for their kind support





More Signal. More Science.

Sensitivity is often the limiting factor in solid-state NMR of biological systems. The Bruker MAS CryoProbe overcomes this challenge with up to 10x higher signal-to-noise ratio while maintaining independent sample temperature control under biologically relevant conditions.

Delivering value across the BioSolids workflow through:

- Up to 10x higher sensitivity
- Faster access to results
- Advanced multidimensional experiments
- Measurements on dilute and natural-abundance samples
- Native sample conditions without modification
- Proven performance for membranes, lipids and biological assemblies

Scan the QR code to download the MAS CryoProbe Whitepaper.



For more information, please visit www.bruker.com

Innovation with Integrity



Discover MoRE with Mobility Range Enhanced 4D-Metabolomics™

Our next-generation workhorse 4D-Metabolomics and 4D-Lipidomics workflows

- Game-changing advancement in sensitivity
- TIMS-enabled confidence in automated analyte annotation
- A digital metabolome archive of every sample analyzed
- Fully featured 4D-enabled quality control and established software ecosystem

For Research Use Only. Not for use in clinical diagnostic procedures.



For more information please visit www.bruker.com/timsmetabo

Innovation with Integrity

Turn Curiosity into Discovery



Explore the forefront of bioactive lipids with trusted research tools and expert support.

Cayman offers standards to help investigate bioactive lipids, their precursors, and their metabolites.

Start your discovery at
www.caymanchem.com/lipids



High-purity Lipids



Analytical Standards



Lipidomics Services



Custom Lipid Synthesis





International Lipidomics Society (iLS)

ADVANCING LIPIDOMICS • CONNECTING COMMUNITIES • TRANSFORMING HEALTH



Our Mission:

Advance lipidomics through global collaboration, innovation, education, and standardization, and promote the translation of lipidomics into biological and clinical applications.

1. SCIENTIFIC LEADERSHIP

- Develop best-practice guidelines and reporting standards (e.g., Lipidomics Standards Initiative)
- Coordinate inter-laboratory studies and reference material development
- Support methodological and technological advances in lipidomics

5. ADVOCACY & IMPACT

- Raise awareness of the value of lipidomics
- Engage with policymakers and funding bodies
- Promote the translation of lipidomics into biomedical and clinical practice



4. INNOVATION & INFRASTRUCTURE

- Promote open data, digital tools, and cloud-based resources (e.g., LipidCascade)
- Support bioinformatics and data standards
- Facilitate communication between researchers, funding agencies, and industry partners

2. COMMUNITY BUILDING

- Foster international collaborations across academia, healthcare, and industry
- Coordinate thematic Interest Groups covering diverse areas of lipidomics
- Create a welcoming and inclusive global community

3. EDUCATION & TRAINING

- Organize international conferences, workshops, webinars, and training courses
- Provide educational resources on lipidomics
- Support early-career scientists through travel awards and networking opportunities

INFRASTRUCTURE FOR QUANTITATIVE LIPIDOMICS

i) LipidCascade for Lipidome evaluation



ii) LipidCompass for Lipidome publication and sharing



REPRESENTATIVES FROM
23
COUNTRIES



GENDER BALANCE:
44%



56%



STUDENTS
9%



POSTDOCS
8%



REGULAR
76%

OVERALL IMPACT

Building a global, collaborative ecosystem that accelerates lipidomics research and its translation into biomedical and clinical practice.



Stronger
Global Community



Better Science
& Standards



Open Data &
Shared Resources



Trained Next
Generation



Health Impact
for Society



ELSEVIER

Biochimie

An international journal of
Biochemistry and Molecular Biology

Published under the auspices of
the Société Française de Biochimie
et Biologie Moléculaire

Chief Editor

Bertrand Friguet

Sorbonne University, Paris, France

Biochimie publishes original research articles, short communications, review articles, graphical reviews, mini-reviews, and hypotheses in the broad areas of biology, including biochemistry, enzymology, molecular and cell biology, metabolic regulation, genetics, immunology, microbiology, structural biology, genomics, proteomics, and molecular mechanisms of disease. *Biochimie* publishes exclusively in English.



Supports Open Access

CiteScore™

6.2

Powered by Scopus®

Impact Factor®

3.4

2025 Journal Citation Reports®
(Clarivate Analytics, 2020)



Find out more

www.sciencedirect.com/journal/biochimie



HEART

Health Resource Technology, LLC

Go Beyond LDL-C to Identify Cardiovascular Risk

L5 is critical!

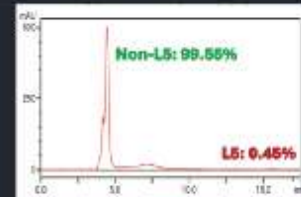


CARDIOVASCULAR RISK - L5 ASSAY

01 WHY L5 MATTERS

LDL can be divided into five subclasses (L1-L5). L5, the most electronegative subclass, is associated with atherogenesis and thrombosis.

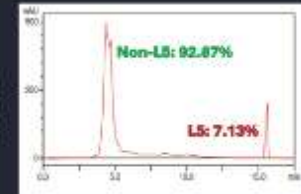
Healthy



02 L5 is increased in...

- Hyperlipidemia
- Diabetes Mellitus
- Autoimmune Diseases
- Coronary Syndrome
- Chronic Kidney Disease
- Chronic Smoker

ASCVD



03 OUR SERVICE

Rapid

Multistep UC/SEC/FPLC/HPLC in 6 hrs



Reliable

Consistent assay performance



Risk Stratification

Precision risk profiling beyond standard LDL



L5 AND CARDIOVASCULAR RISK

- High LDL-C does not always predict atherosclerotic cardiovascular disease (ASCVD) events.
- Low LDL-C does not guarantee freedom from ASCVD.
- Higher L5% in LDL is associated with higher ASCVD.

Learn more about L5 testing
visit us at www.hearthrtllc.com/en/

HEART, Health Resource Technology, LLC

EVERY LIPID TELLS A STORY. Standards help you read it.

From untargeted discovery to biological interpretation, Avanti Research's lipidomics standards support confident identification, quantitation, and validation throughout the analytical workflow.



Scan to
learn
more

Discover *Broad lipid coverage*
Ultimate SPLASH™ ONE & SPLASH™ LIPIDOMIX™

Quantify *Quantitative method development*
EquiSPLASH™ & LightSPLASH™

Focus *Matrix-specific Lipidomics*
SPLASH™ II, Mouse SPLASH™, MSI SPLASH™

Target *Disease-relevant lipid analysis*
Ceramide, Sphingo, Bile Acid, Carnitine, Oxysterol & Ganglioside Panels

Validate *Reference standards & custom solutions*
LIPID MAPS®-Linked Standards and Custom Synthesis



Advance your lipidomics workflow with standards designed for
confident discovery, quantitation, and interpretation.

CRODA Pharma



Custom Research Grade Lipids

Fatty Acids

Food Oils

Glycerides

MCPD

Phospholipids

LNP Lipids





SCIENTIFIC PROGRAM

Venue: Agora du Haut-Carré, Université de Bordeaux,
43 rue Pierre Noailles – 33400 TALENCE
Tram B, get off at the FORUM stop, then walk for 5 minutes

Monday, September 21, 2026

Workshop on Imaging techniques for lipids and membranes (Agora)

Chairpersons **Emmanuelle Bayer & Nicolas Desbenoit**

14:00 – Registration to the workshop

14:15 – 14:30 Welcome to the workshop

Invited lecture

14:30 – 15:00 **Katelyn Camille Cook**, MPI for Cell Biology & Genetics, Dresden, Germany.
Identifying the lipid-protein interactions that build organelle membranes.

Oral Communications

15:00 – 15:15 **Emmanuelle Bayer**, Laboratory of Membrane Biogenesis, INRAE Bordeaux Aquitaine, France.
Talking through walls: Lipid-protein interactions controlling plasmodesmal communication.

15:15 – 15:30 **Nicolas Desbenoit**, Institute of Chemistry & Biology of Membranes & Nanoobjects, CNRS, University of Bordeaux, Bordeaux INP, France.
Multimodal Mass Spectrometry Imaging for the Spatial Characterization of Lipids and Cellular Microenvironments.

15:30 – 15:45 **Anthony Don**, Charles Perkins Centre and School of Medical Sciences, The University of Sydney, Camperdown, Australia.
Quantification and Localisation of New Brain Lipid Synthesis Using Deuterium Oxide and High-Resolution Mass Spectrometry.

- 15:45 – 16:00 **Jamie Bride**, PhyMedExp, Université de Montpellier, Inserm, CNRS, Montpellier, France.
Characterization of non-enzymatic oxidized polyunsaturated fatty acids (NEO-PUFAs) interactomes and the associated signalling pathways by the use of click-NEO-PUFAs.
- 16:00 – 16:15 **Teresa Ximelis**, Institut d'Investigació Sanitària Illes Balears (IdISBa), Palma, Balearic Islands, Spain.
A coordinated peroxisome–DHA–plasmalogen programme marks secretory and metastatic epithelial states in human colon cancer
- 16:15 – 16:30 **Raphaël Vatin**, Structural Virology Unit, UMR3569, Institut Pasteur, 75015 Paris, France.
Impact of the Rift Valley fever virus NSm protein on lipid droplet metabolism

21st GERLI and 65th ICBL Conference

- 16:45 – 17:30 **Registration and Coffee** (Badiane room)
- 17:30-18:00 **Opening and Welcome Addresses** (Agora)
Erick Dufourc

Opening Lectures

Chairpersons **Hubert Schaller & Markus A. Wenk**

GERLI Polonovski lecture

- 18:00 – 19:00 **Clotilde Thery**, INSERM U932/Institut Curie, Paris, France
Extracellular vesicles: complex lipid-enclosed structures with roles in tumor-immune system cross-talk.

ICBL Van Deenen lecture

- 19:00 – 20:00 **George Carman**, Rutgers Center for Lipid Research, Rutgers University, New Brunswick, New Jersey 08550, USA
Mechanistic Insights into Phosphatidic Acid Phosphatase in Lipid Synthesis Regulation.
- 20:00 – 22:00 **Welcome reception** (Badiane room)

Session 1 Membrane Lipids (Agora)

Chairpersons **Erick Dufourc & Markus Keller**

Invited lecture

9:00 – 9:30 **Raphael Rodriguez**, Institut Curie, CNRS, INSERM, PSL Research University, Paris, France.
Chemical control of cell adaptation.

Oral Communications

9:30 – 9:45 **Katrin Watschinger**, Institute for Molecular Biochemistry, Biocenter, Medical University of Innsbruck, Innsbruck, Austria.
Ether lipid deficiency alters bone architecture in mice and impairs osteoclast differentiation in vitro.

9:45 – 10:00 **Leja Perne**, Department of Molecular and Biomedical Sciences, Jožef Stefan Institute, Jamova cesta 39, Ljubljana, Slovenia.
Lipid droplet composition and oxidative state determine their role in ferroptosis.

10:00 – 10:15 **Marina Placci**, Institute for Bioengineering of Catalonia (IBEC), Barcelona Institute of Science and Technology (BIST), Barcelona, Spain.
Membrane Remodeling in Lysosomal Storage Disorders: The Role of GlcCer and Gb3.

10:15– 10:30 **Louis Bunel**, École Normale Supérieure (ENS), Université Paris Sciences et Lettres (PSL), CNRS, Sorbonne Université, Université Paris-Cité, Paris, France.
Phospholipid-cation interactions alter membrane proteins activity: The Case of SNARE-Catalysed Membrane Fusion.

10:30 – 11:00 **Coffee break** (hanging posters in Cloister) & **Sponsors Booth** (Badiane room)

Session GERLI PhD Awards (Agora)

Chairperson **Cécile Gladine & Hubert Schaller**

11:00 – 11:15 **Clara Piersson**, Univ. Bordeaux, CNRS, Bordeaux INP, CBMN, UMR 5248, IECB, Pessac, France.
Local Organization of Biological Membranes Modulates Tau-Lipid Interactions and Fibril formation.

11:15 – 11:30 **Louise Fougère**, Laboratoire de Biogenèse Membranaire, Université de Bordeaux, CNRS UMR5200, Villenave-d'Ornon, France.

Revisiting the early secretory pathway in plant cells: identification of a dynamic tubulo-vesiculated ER-Golgi intermediate compartment (ERGIC) that matures in Golgi.

11:30 – 11:45

Aline Abou Assi (GERLI-SFN Prize), Institute for Global Health (ISGlobal), Barcelona, Spain.

Biomarkers of early exposure to polyunsaturated fatty acids and their links with child health and development.

Session Poster flash-talks (Agora)

Chairperson

Gérard Lambeau

11:45 – 12:30

Students Competing for Poster Prize: 1 slide, 1minute

12:30 – 14:00

→ Lunch Buffet (Badiane room, along with the **sponsor booths**), & **Poster viewing, Even numbers** (Cloister)

13:00-14:00, **Presentation of Poster to the Jury**)

Session 2 Algae and Plant Lipids (Agora)

Chairpersons

Frédéric Domergue & Hubert Schaller

Invited lecture

14:00 – 14:30

Eric Maréchal, Laboratoire de Physiologie Cellulaire et Végétale, CNRS, CEA, INRAE, UGA, CEA-Grenoble, Grenoble, France.

Evolutionary repurposing of MGDG synthases from photosynthetic membrane biogenesis to new eukaryotic functions

Oral Communications

14:30 – 14:45

Aleksandra Weremczuk, Institute of Biochemistry and Biophysics Polish Academy of Sciences, Warsaw, Poland.

Very long-chain polyisoprenoids accumulate in rose leaves represent an overlooked class of plant lipids.

14:45 – 15:00

Birgit Habenstein, Univ. Bordeaux, CNRS, Bordeaux INP, CBMN, UMR 5248, IECB, Pessac, France.

Remorin-mediated protein-lipid networking during nanodomain formation in plant cells.

15:00– 15:15

Ana Paula Alonso, BioDiscovery Institute and Department of Biological Sciences, University of North Texas, Denton, USA

¹³C-Metabolic Flux Analysis Elucidates Carbon Partitioning during Unusual Fatty Acid Synthesis

15:15 – 15:30

Claire Bréhélin, Laboratoire de Biogenèse Membranaire, UMR5200 CNRS, Université de Bordeaux, Villenave-d'Ornon, France.
Dynamics and role of 3-hydroxylated lipids in the regulation of dormancy in cherry floral buds.

15:30 – 16:00

→ Coffee break (Badiane room, along with the sponsor booths), & Poster viewing, Even numbers (Cloister)

Session 3 - Lipid Nutrition & Health (co-organized with SFEL) (Agora)

Chairpersons

Cécile Gladine & Anne le Guillou

Invited lecture

16:00 – 16:30

Parveen Yaqoob, University of Reading, Reading, United Kingdom.
Extracellular vesicles as mediators of the anti-thrombotic effects of n-3 polyunsaturated fatty acids

Oral Communications

16:30 – 16:45

Catherine Mounier, Département des sciences biologiques, Université du Québec à Montréal, Montréal, Québec, Canada.
Apolipoprotein D modulates inflammation in a sex-dependent manner.

16:45 – 17:00

Eva Larrieu, CarMeN Laboratory, INSERM U1060, INRAE U1397, University of Lyon, Pierre-Bénite, France
Plant-based omega-3 and lipid metabolism in obesity: comparison of plant glycolipids and linseed oil as naturel carriers of ALA

17:00 – 17:15

Chika Mochizuki-Ono, Laboratory of Microenvironmental and Metabolic Health Science, Center for Disease Biology and Integrative Medicine, The University of Tokyo, Tokyo, Japan
sPLA2-XIIA drives extracellular vesicle phospholipid metabolism to promote pathogenic Th17 responses.

17:15 – 17:30

Magdalena Osowiecka, Institute of Physiological Chemistry, Faculty of Chemistry, University of Vienna, Vienna, Austria.
Dietary Lipid Epoxide as Novel Inducer of Dose-Dependent Intestinal Inflammation

18:00 – 19:00

GERLI General Assembly & ICBL Steering Committee (Agora and Seminar room)

20:00

➔ GERLI & ICBL Steering committees' dinner (Le café français, 5 Place Pey-Berland, 33000 Bordeaux, Tram B, get off at the HOTEL DE VILLE stop)

Wednesday, September 23, 2026

Session 4 Lipids and Brain (Agora)

Chairpersons Sophie Layé & Nicolas Vitale

Invited lecture

9:00 – 9:30 **Richard Bazinet**, Department of Nutritional Sciences, University of Toronto, Canada.
New methods lead to new insights on the role of diet and the liver in maintaining a healthy fat brain.

Oral Communications

9:30 – 9:45 **Yushan Cai**, School of Medical Sciences, Faculty of Medicine and Health, The University of Sydney, Camperdown, Australia.
Aging and APOE Genotype Significantly Impact Myelin Lipid Synthesis and Turnover in Mice.

9:45 – 10:00 **Marta Turri**, Department of Medicine, Faculty of Medicine and Health Sciences, Université de Sherbrooke, Sherbrooke, Canada.
Correction of hippocampal fatty acids rescues synapse and energy programs of 5xFAD glutamatergic neurons.

10:00 – 10:15 **Luís Freiria-Martínez**, Chemistry of Marine Products Group, Marine Research Institute - Spanish National Research Council (IIM-CSIC), Vigo, Spain.
The Chemistry of Inflammation Relief: Lipid Mediators Profiling Reveals How Gene Therapy Restores Brain Homeostasis in 5xFAD Alzheimer Mouse Model.

10:15 – 10:30 **David Perrais**, IINS, Université de Bordeaux, CNRS UMR 5297, Bordeaux, France.
Membrane lipid poly-unsaturation selectively affects dopamine D2 receptor endocytosis

10:30 – 11:00

→ Coffee break (Badiane room, along with the sponsor booths), & Poster viewing, Odd numbers (Cloister)

Session 5 Biopolymers and Lipids (Agora)

Chairpersons Frédéric Domergue & Benjamin Buaud

Invited lecture

11:00 – 11:30 **Rochus B. Franke**, Institute of Cellular and Molecular Botany, University of Bonn, Bonn, Germany.
Long chain and very long chain lipids in the plant's extracellular space: from physiological importance to biopolymers and biotechnological potential.

Oral Communications

11:30 – 11:45 **Ide Antoine**, Louvain Institute of Biomolecular Science and Technology, UCLouvain, Louvain-la-Neuve, Belgium.
Accelerated ageing of vegetable oils rich in conjugated linolenic acids reveals polymerisation processes and the formation of highly toxic aldehydes.

11:45 – 12:00 **Sébastien Baud**, Université Paris-Saclay, INRAE, AgroParisTech, CNRS, Institute Jean-Pierre Bourgin for Plant Sciences, Versailles, France.
Direct transcriptional activation of suberin biosynthesis by MYB9 and MYB107 protects Arabidopsis seeds against abiotic stress from late maturation through germination.

12:00 – 12:15 **Vanessa Esquivel Bertran**, ICGM, University of Montpellier, CNRS, ENSCM, Montpellier, France.
Synthesis of biobased rheology modifiers for cosmetic applications.

12:15 – 12:30 **Boris Bizet**, ITERG, Canéjan, France
Bio-based Estolides from metropolitan Erucic Acid: synthesis and performances

12:30 – 14:00

→ Lunch Buffet (Badiane room, along with the **sponsor booths**), & **Poster viewing, Odd numbers** (Cloister)

13:00-14:00

Presentation of Poster to the Jury

Session 6 Advanced topics and industrial challenges (Agora)

Chairpersons **Erick Dufourc & Hubert Schaller**

Oral Communications

- 14:00 – 14:15 **Elsevier**
Generative AI in Scientific Writing and Scholarly Publishing.
Sponsored by Elsevier
- 14:15 – 14:30 **Gerhard Liebisch**, Institute of Clinical Chemistry and Laboratory Medicine, University Hospital Regensburg, Germany
The ILS approach to lipidomics data quality — from the Lipidomics Reporting Checklist to lipidome concentration databases
Sponsored by ILS
- 14:30 – 14:45 **(Mendel) Chen Chu-Huang**, Vascular and Medicinal Research, The Texas Heart Institute at Baylor College of Medicine, Houston, Texas, USA.
L5 and Lp(a): Emerging Biomarkers for ASCVD Risk and Prevention
Sponsored by HEART
- 14:45 – 15:00 **Magdalene Reinkensmeier**, Bruker Daltonics GmbH & Co. KG, Fahrenheitstrasse 4, 28359 Bremen, Germany
Profiling cell-type specific mitochondrial sub-populations in Arabidopsis thaliana with multi-omics mass spectrometry
Sponsored by Bruker
- 15:00 – 15:15 **Perrone, Barbara**, Bruker Switzerland, Fällanden, Switzerland.
A Multi-Phase NMR View of Lipids in Their Native Context
Sponsored by Bruker
- 15:15 – 15:30 **Anna Grygier**, Faculty of Food Science and Technology, University of Life Sciences, Poznań, Poland.
Mustard oil and press cake in the production of vegan mayonnaises
Sponsored by Chairmen

➔ Social Events: Visit of chateau Luchey-Halde cellar, wine-tasting, gala dinner, etc.

- 16:00 – 16:30 Departure by Bus N°1 to Château Luchey Halde “Pessac Léognan”
16:30 – 17:00 Departure by Bus N°2 to Château Luchey Halde “Pessac Léognan”
17:00 – 17:30 Departure by Bus N°3 to Château Luchey Halde “Pessac Léognan”

16:30 – 18:00	30-40 minutes visit of the vineyards and cellars, explanation of wine making, visit of the “wine boutique”. 3 successive groups of 50 people.
17:00 – 19:00	3 x Public conferences by Erick Dufourc : <i>Wine tannins and lipids: a love story, including a wine and cheese tasting</i> 3 successive groups of 50 people.
19:00 – 19:30	Aperitif in the vineyard
19:30 – 22:00	Conference Dinner, Poster Awards and PhD Prize Ceremony
22:00	Bus departures to Bordeaux downtown.

Thursday, September 24, 2026

Session 7 – Biodiversity of lipids

Chairpersons **Hubert Schaller & Jérôme Nigou**

Invited lecture

9:00 – 9:30 **Manuel Liebeke**, Metabolic Interactions Group, Max Planck Institute for Marine Microbiology, Kiel, Germany.
Lipids at the Crossroads of Host–Microbe Interactions.

Oral Communications

9:30 – 9:45 **Gwendolyn Barceló-Coblijn**, Health Research Institute of the Balearic Islands (IdISBa), Palma, Balearic Islands, Spain.
Fecal sterol and stanol profiles serve as biomarkers stratifying ulcerative colitis patients by microbiome composition and plasma lipid signatures.

9:45 – 10:00 **Sarah Brunner**, Institut of Clinical Chemistry and Laboratory Medicine, Functional Lipidomics and Metabolism Research, University Hospital Regensburg, Regensburg, Germany.
Gut microbiota restricts intestinal lipid uptake via modulation of bile phosphatidylcholine metabolism in mice.

10:00 – 10:15 **Sarah Vellemans**, Louvain Institute of Biomolecular Science and Technology (LIBST), UCLouvain, Louvain-la-Neuve, Belgium.
Bioavailability of punicic acid from pomegranate seed oil: in vitro and in vivo evidence.

10:15 – 10:30 **Kyndall Nicholas**, Faculté de médecine et des sciences de la santé, Université de Sherbrooke, Sherbrooke, QC, Canada.
Fish Oil and Krill Oil do not Increase the Omega 3 Index Equally.

10:30 – 11:00

→ Coffee break (Badiane room, along with the sponsor booths)

Session 8 Lipids for Medicine & Pharmacy (Agora)

Chairpersons **Frédéric Carrière & Ofelia Maniti**

Invited lecture

11:00 – 11:30 **Per Larsson**, Department of Pharmacy, Uppsala University, Uppsala, Sweden.
Self-assembly of medium-chain fatty acids and mixed lipid colloids in the gut: solubilization and membrane permeation enhancement.

Oral Communications

11:30 – 11:45 **Angelina Angelova**, Institut Galien Paris-Saclay CNRS UMR8612, Université Paris-Saclay, 91400 Orsay, France.
Lipid Self-Assembly as a Platform for Next Generation Nanomedicine in Neurodegenerative Disorders.

11:45 – 12:00 **Paola A. Corsetto**, Department of Pharmacological and Biomolecular Sciences “Rodolfo Paoletti”, Università di Milano, Milan, Italy.
Circulating lipid and metabolic biomarkers for Prediction of Immunotherapy Response in advanced NSCLC patients.

12:00 – 12:15 **Michel Record**, INOV Team “Cholesterol Metabolism and Therapeutic Innovations” Cancer Research Center of Toulouse, CRCT, UMR 1037, Toulouse, France.
Dendrogenin A, a Cholesterol-Derived Metabolite, Reprograms Endolysosomal BMP Metabolism to Generate Immunogenic Antitumour Extracellular Vesicles.

12:15 – 12:30 **Gábor J. Tigyi**, Department of Physiology, University of Tennessee Health Science Center, Memphis, Tennessee, USA.
Loss of the lysophosphatidic acid-induced immediate early gene IEX-1 exacerbates acute radiation syndrome.

→ Lunch Buffet (Badiane room, along with the sponsor booths),

12:30 – 13:30

Session 9 Lipids, Analysis and Technology (Agora)

Chairpersons **Fernando Leal-Calderon & Makoto Arita**

Invited lecture

13:30 – 14:00 **Claire Berton-Carabin**, INRAE, UR BIA, 44000 Nantes, France.
Lipids in disguise: Hidden co-passengers in plant protein ingredients with potential impacts on plant-based foods.

Oral Communications

14:00 – 14:15 **Marisa Pinho**, CESAM-Centre for Environmental and Marine Studies, Department of Chemistry, University of Aveiro, Campus Universitário de Santiago, Aveiro, Portugal;
*Drying-induced lipidome remodeling in the two edible halophytes *Salicornia ramosissima* and *Atriplex portulacoides*.*

14:15 – 14:30 **Arash Zarrine-Afsar**, University Health Network and the University of Toronto, Toronto, Canada.
A Decision-support Scheme for Clinical Implementation of Lipidomic Classifiers to Guide Cancer Care.

14:30 – 14:45 **Gerhard Hagn**, Institute of Analytical Chemistry, Faculty of Chemistry, University of Vienna, Vienna, Austria.
Integrating tissue proteomics and bioactive lipid analysis of ovine tissue samples identifies functional relations of bioactive lipids.

14:45 – 15:00 **Delphine Vergoz**, Univ Rouen Normandie, INSA Rouen Normandie, CNRS, Normandie Univ, CARMEN, UMR 6064, INC3M 76000 Rouen, France.
*Multidimensional Lipidomics Profiling of *Acinetobacter baumannii* Persister Cells using LC-IMS-MS.*

15:00 – 15:30

➔ Coffee break (Badiane room)

Oral communications Awards (Agora)

Chairpersons **Erick Dufourc & Hubert Schaller**

15:30 – 15:45

Next Meetings

15:45 – 15:55	Anthony Don , Australia, Presentation of ICBL 2027
15:55 – 16:05	Marie-Caroline Michalski, Cécile Gladine , Presentation of GERLI 2027
16:05	Closing



Thank you for joining us in Bordeaux

ICBL–GERLI 2026



Conference website

<https://www.gerli.com/congres/icbl-gerli-2026-lipid-conference/>

Bordeaux, France

September 21–24, 2026

AGORA – Domaine du Haut-Carré