Phosphoinositides

Key Regulators of Cell Signaling and Membrane Dynamics in Health and Disease

KEYNOTE & INVITED SPEAKERS

Vytas Bankaitis (USA)
Emmanuelle Bayer (FR)
John Burke (CA)
Antonella De Matteis (IT)
Dorothea Fiedler (DE)
Mariona Graupera (ES)
Gerry Hammond (USA)
Volker Haucke (DE)
Emilio Hirsch (IT)
Jim Hurley (USA)
Jen Liou (USA)
Ganna Panasyuk (FR)
Takehiko Sasaki (JP)
Len Stephens (UK)
Lloyd Trotman (USA)
Bart Vanhaesebroeck (UK)
Julien Viaud (FR)
Lois Weisman (USA)

J.E. Dumont Meeting Association

ORGANIZERS:
Bruno GOUD (FR)
Volker HAUCKE (DE)
Bernard PAYRASTRE (FR)
Julien VIAUD (FR)

100 PARTICIPANTS ONLY



18 spots available for short talks

Mont Sainte-Odile, Alsace, France
October 7-10, 2026

FULL-PACKAGE INCLUDES:

Scientific Sessions, 3 Nights accomodation, All Meals, Transport from Strasbourg

SECURE YOUR SPOT: www.hormones-cell-regulation.eu

Abstract deadline: July 31, 2026

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Wednesday October 7th

16:00 – 16:15 **Welcome**

Session 1: Phosphoinositide signaling & stress responses in cancer (Chair: Volker Haucke)

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16:15 – 16:45 **Mariona Graupera** (Josep Carreras Leukaemia Research Institute, Barcelona, Spain) "Behaviours of cancer-associated PI3K mutations in congenital mosaic syndromes"

16:45 – 17:15 **Lloyd Trotman** (Cold Spring Harbor Laboratory, Cold Spring Harbor, USA) "Redox control of endocytosis for metastatic cancer therapy"

17:15 – 17:30 **Benoit Bilanges** (University College London, London, UK) "Pharmacological activation of PI3Kα triggers cancer cell death under metabolic stress"

17:30 – 17:45 **Theodora A. Constantin** (University of Basel, Basel, Switzerland) "Pharmacological Instant "Knockout" of PI3Kα Resolves Metabolic Response Thresholds"

17:45 – 18:00 **Julie Guillermet-Guibert** (Centre de Recherches en Cancérologie de Toulouse, CRCT, Toulouse, France) "Pancreatic cancer cell adaptation to mechanical compressive stress reveals dynamics of class I PI3K activity and a targetable vulnerability"

18:00 – 18:15 **Sarah Conduit** (University College London, London, UK) "Solid tumour cell-intrinsic function of PI3Kδ"

18:15 – 18:30 **Kseniia Golik** (Toronto Metropolitan University, Toronto, Canada) "Akt out and find out: how clathrin modulates Akt isoform activation"

18:30 – 20:00 Dinner

20:00 - 20:10 Tribute to Ana Carrera presented by **David Fruman**

20:10 – 21:10 The Jacques E. Dumont keynote lecture (Chair: David Fruman)

Bart Vanhaesebroeck (University College London, London, UK)
"PI3K: 30+ years of discovery and translation"

21:10 Networking and discussion

Thursday October 8th

Session 2: Phosphoinositides in membrane contact site function (Chair: Bruno Goud)

09:00 – 09:30 **Jen Liou** (UT Southwestern Medical Center, Dallas, USA) "Nir1-Nir2 Heterodimerization Expands the Sensitivity and Dynamic Range of the Phosphatidylinositol Cycle"

09:30 – 09:45 **Cristina Camardi** (Toronto Metropolitan University, Toronto, Canada) "The forgotten chain: LYCAT-mediated phosphoinositide acyl remodeling drives ER-PM contact site signaling to support breast cancer cell migration"

09:45 – 10:00 **Todd Graham** (Vanderbilt University, Nashville, USA) "Control of Golgi PI4P homeostasis and COPI recruitment by a PI4P flippase"

10:00 – 10:30 **Emmanuelle Bayer** (Laboratoire de Biogenèse Membranaire, Université de Bordeaux, France) "Crossing boundaries: Cell-cell Communication through membrane contact sites"

10:30 – 11:00 Coffee break

11:00 – 11:30 **Vytas Bankaitis** (Texas A&M Health Science Center, College Station, USA) "An Atomistic View of Heterotypic Lipid Exchange by CRAL-Trio Phosphatidylinositol Transfer Proteins"

11:30 – 12:00 **Dorothea Fiedler** (Leibniz Institute fur Molecular Pharmacologie, Berlin, Germany) "The multiple modes of action of inositol pyrophosphate messengers"

12:00 – 14:00 Lunch

14:00 – 18:30 Networking

18:30 – 20:00 Dinner

20:00 – 21:00 Keynote lecture (Chair: Bernard Payrastre)

Len Stephens (Babraham Institute, Cambridge, UK)
"PI3K signalling in prostate"

21:00 Poster Session 1 - Odd numbers

Friday 9th October

Session 3: Molecular mechanisms of phosphoinositide signaling & membrane recruitment (Chair: Bernard Payrastre)

09:00 – 09:30 **Jim Hurley** (University of California, Berkeley, USA) "Writing and reading the PI3P signal in autophagy"

09:30 – 10:00 **John Burke** (University of Victoria, Victoria, Canada) "Cryo-EM structures of PI3Kβ and PI3Kδ reveal the molecular basis of plasticity in class IA PI3K regulation"

10:00 – 10:15 **Raymond D. Blind** (Vanderbilt University School of Medicine and Medical Center, Nashville, USA) "Computed nuclear receptor phospholipid binding modes: using wet-lab yes/no binding data to train a categorical neural network"

10:15 – 10:30 **Daniel Lietha** (Margarita Salas Center for Biological Research (CIB), Spanish National Research Council (CISC), Madrid, Spain) "Structural insights into clustered membrane signaling provide basis for high signal output and enable alternative targeting strategies"

10:30 – 11:00 Coffee break

Session 4: PIKfyve functions in health and disease (Chair: Christoph Fahlke)

11:00 – 11:30 **Lois Weisman** (Life Sciences Institute, University of Michigan, USA) "Regulation of PIKfyve on Dynamic Endosomes Promotes Cell Migration"

11:30 – 11:45 **Ilona Willson** (The University of Sheffield, Sheffield, UK) "A Mechanistic Understanding of PIKfyve Signalling During Phagosome Maturation"

11:45 – 12:00 **Hélène Tronchere** (Institute of Metabolic and Cardiovascular Diseases (I2MC), Inserm UMR1297, Toulouse, France) "PIKfyve regulates endolysosomal and mitochondrial function in cardiomyocytes. Implication for heart failure"

12:00 – 14:00 Lunch

Session 5: "Phosphoinositide signaling in nuclear functions and genome integrity" (Chair: Ray Blind)

14:00 – 14:30 **Ganna Panasyuk** (Institut Necker-Enfants Malades (INEM), Paris, France) "Meeting the nutrient challenge: How class 3 PI3K coordinates autophagy and transcription"

14:30 – 15:00 **Emilio Hirsch** (University of Torino, Torino, Italy) " Spatial Control of Phosphoinositides Safeguards Cytokinesis and Genome Integrity"

15:00 – 15:20 **Richard Anderson** (University of Wisconsin, Madison, USA) "Phosphoinositide Lipids Linked to Proteins Represent a 3rd Messenger Pathway"

15:20 – 15:40 **Nullin Divecha** (University of Southampton, Southampton, UK) "Targeting nuclear Phosphoinositide interacting PHD fingers in Acute myeloid leukaemia"

15:40 – 15:55 **Nadia Gillet** (IRIBHM Jacques E. Dumont, ULB/Faculty of Medicine, Brussels, Belgium) "SHIP2 maintains mitotic integrity and represents a synthetic lethal vulnerability in p53-deficient Esophageal squamous cell carcinoma"

15:55 – 16:30 Coffee break

Session 6: Spatio-temporal control of phosphoinositide pools in membrane dynamics (Chair: Richard Anderson)

16:30 – 17:00 **Volker Haucke** (Leibniz Institute fur Molecular Pharmacologie, Berlin, Germany) "Lipid signaling in health and disease: From organelles to brain function"

17:00 – 17:30 **Gerry Hammond** (University of Pittsburgh School of Medicine, Pittsburgh, USA) "Not so happy together: single molecule imaging of class 1A PI3K subunit activation in the living cell"

17:30 – 17:45 **Raghu Padinjat** (National Centre for Biological Sciences-TIFR, Bangalore, India) "Phosphatidylinositol 5 phosphate 4 kinase regulates phosphatidylinositol 3,4 bisphosphate levels in vivo"

17:45 – 18:00 **Francesca Cervellini** (Telethon Institute of Genetics and Medicine, TIGEM, Pozzuoli, Naples, Italy) "OCRL Regulates a Novel PI(4,5)P_2 Pool on Lipid Droplets Essential for Fatty Acid Metabolism and Mitochondrial Function"

18:00 – 18:15 **Natalie Uzynski** (Toronto Metropolitan University, Toronto, Canada) "A PIP-ing Hotspot for PI3K-Akt Signaling within Clathrin Signalosomes"

18:30 – 20:00 Dinner

20:00 – 21:00 EMBO ***Keynote lecture : (Chair: Bruno Goud)***

Maria Antonietta De Matteis (Telethon Institute of Genetics and Medicine, TIGEM, Pozzuoli, Naples, Italy)
"A PIPeline for drug discovery in Lowe syndrome"

21:00 Poster Session 2 - Even numbers

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Saturday October 10th

Session 7: Phosphoinositide signaling in health and human disease (Chair: Julie Guillermet-Guibert)

09:00 – 09:30 **Julien Viaud** (Institute of Metabolic and Cardiovascular Diseases (I2MC), Inserm UMR1297, Toulouse, France) "MTM1-dependent phosphoinositide remodeling regulates endosomal trafficking and integrin dynamics in XLMTM"

09:30 – 09:45 **Lalita Oparija-Rogenmozere** (University of Basel, Basel, Switzerland) "Two PI3Kg Complexes Drive Distinct Metabolic Disease Phenotypes"

09:45 – 10:00 **Isra Mentouri** (Institute of Metabolic and Cardiovascular Diseases (I2MC), Inserm UMR1297, Toulouse, France) "Differential contributions of PI3Kγ adaptor complexes to atherosclerosis: p101-p110γ as a precision target for foam cell formation"

10:00 – 10:30 Coffee break

10:30 – 11:30 Keynote lecture (Chair: Julien Viaud)

Takehiko Sasaki (Medical Research Laboratory, Institute of Science Tokyo, Tokyo, Japan)
"Phosphoinositide Remodeling as a Regulatory Axis in Aging and Disease"

11:30 – 12:00 Poster prizes and Conclusions

12:15 Picnic pickup and departure