7th European Meeting on AMPK & nutrient-sensing pathways

September 27th-29th, 2026

Hotel De Werelt • Lunteren - The Netherlands

Departure of the participants on Wednesday, September 30th morning

GENERAL ORGANIZATION
ATouTCom Event Agency
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AMPK & nutrient-sensing pathways: from metabolism to immunity and beyond

This 3-day meeting aims at bringing together leading experts and emerging young scientists working on AMPK and its related kinases (LKB1, CAMKK2, SIKs, NUAKs, BRSKs, MARKs, SNRK) and nutrient sensing pathways (such as mTORC1, PPARs, SREBPs and hexosamine biosynthesis pathway) from a large diversity of research fields that include cardiometabolic disease, cancer, nutrition and exercise, neurology and immunology). The scientific program will cover cutting- edge research and recent discoveries, featuring 2 keynote lectures, 8 thematic scientific sessions, and plenty of opportunities for interactive discussion and networking.

Historically, the European meeting alternates with the International AMPK meeting and is especially intended to facilitate collaborations, knowledge exchanges and network building for young scientists. Therefore, in line with previous editions, junior researchers and newly- established principal investigators will be given the stage to present their research. Plenty of time will also be reserved for interactive discussion through poster sessions and social events, allowing to make new personal contacts and initiate collaborations.

Although Leiden, with the oldest Dutch university, is officially the hosting city, the meeting will be held at the Hotel De Werelt in Lunteren, a green and ecologically-rich area close to one of the most beautiful Dutch National Parks.

We are looking forward to welcoming you!
The Organizing Committee

Bart Everts
Leiden University Medical Center, The Netherlands

Bruno Guigas
Leiden University Medical Center, The Netherlands

Miranda Nabben
Maastricht University, The Netherlands

SPEAKERS

KEYNOTE SPEAKERS

Hongbo Chi
St. Jude Children's Research Hospital, Memphis, USA

Kei Sakamoto
Novo Nordisk Foundation Center for Basic Metabolic Research, Copenhagen, Denmark

INVITED SPEAKERS

Elena Baena-Gonzalez
University of Oxford, UK

Olga Barca-Mayo
University of Santiago de Compostela, Spain

Julien Courchet
Universite Claude Bernard Lyon 1, France

Bart Everts
Leiden University Medical Center, The Netherlands

Madelon Maurice
UMC Utrecht, The Netherlands

Thomas Weichhart
Medical University of Vienna, Austria

OTHER CONFIRMED SPEAKERS

Luc Bertrand
Universite Catholique de Louvain, Belgium

Morgan Fullerton
University of Ottawa, Canada

Manuel Johanns
De Duve Institute, Brussels, Belgium

Sébastien Léon
Institut Jacques Monod, Paris, France

Rémi Mounier
Universite Claude Bernard Lyon 1, France

Ganna Panasyuk
Institut Necker Enfants Malades, France

SUNDAY, SEPTEMBER 27TH

02:00 - 04:30pm **Registration & Check In**

04:30 - 04:45pm **Meeting introduction**
Chair: Bruno Guigas, Bart Everts & Miranda Nabben

04:45 - 05:45pm **KEYNOTE LECTURE**
Chair: Bruno Guigas

Shaping the Precision Regulation of AMP-activated Protein Kinase (AMPK) for the Treatment of Type 2 Diabetes and Fatty Liver Disease
***Kei Sakamoto**, Novo Nordisk Foundation Center for Basic Metabolic Research, Copenhagen, Denmark*

05:45 - 06:45pm • SESSION 1
PARTNER & POSTER PITCHES

05:45 - 06:00pm **Partner pitches**

06:00 - 06:45pm **Poster pitches** *(2min/poster)*

06:45 - 10:00pm **Welcome Reception & Poster Session**

MONDAY, SEPTEMBER 28TH

07:00 - 08:00am **Shaking legs** - *Optional*

08:00 - 09:00am **Breakfast**

09:00 - 10:30am • SESSION 2
ENERGY AND NUTRIENT SENSING SYSTEMS IN PLANTS, YEAST AND MAMMALIAN CELLS
Chair: Uwe Schlattner & Saloni Koli

09:00 - 09:35am **Regulation of plant growth by the SnRK1 signalling pathway**
Elena Baena-Gonzalez, *University of Oxford, UK*

09:35 - 10:00am **A putative metabolite-sensing motif in the yeast AMPK phosphatase, PP1**
Sébastien Léon, *Institut Jacques Monod, Paris, France*

10:00 - 10:15am **Studying protein interaction dynamics in live cells and in real time using a split nanoluciferase assay: application to the regulation of the yeast AMPK network**
Alexandre Cornille, *Institut Jacques Monod, Paris, France*

10:15 - 10:30am **Role of AMPK in regulating morphogenetic processes during cancer and development**
Dymphna Joyce John, *Indian Institute of Science, Bangalore, India*

10:30 - 10:45am **Coffee Break around partners**
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MONDAY, SEPTEMBER 28TH

10:45am - 12:15pm • SESSION 3
BEYOND AMPK:
NUTRIENT SENSING PATHWAYS IN HEALTH AND DISEASES
Chair: Bart Everts & Jeroen Guns

10:45 - 11:20am **Metabolic communication between immune cells in inflammation**
***Thomas Weichhart**, Medical University of Vienna, Austria*

11:20 - 11:45am **Class 3 PI3K in nutrient sensing and crosstalk with AMPK signaling for metabolic adaptation during fasting**
***Ganna Panasyuk**, Institut Necker Enfants Malades, France*

11:45 - 12:00pm **Fasting-refeeding oscillation activates a nutrient-sensing regenerative checkpoint in adipose progenitor cells via cyclic AMPK–mTOR switching**
***Hoon-Ki Sung**, University of Toronto, Canada*

12:00 - 12:15pm **AMPK modulates the non-canonical mTORC1 pathway in response to oxygen levels**
***Josue Ramirez-Reyes**, McGill University, Montreal, Canada*

12:15 - 01:45pm **Lunch**

01:45 - 03:00pm • ROUND TABLE - *for PhD & Postdoc*
AI AND SCIENTIFIC INTEGRITY
Chair: Rémi Mounier

MONDAY, SEPTEMBER 28TH

03:00 - 04:30pm • SESSION 4
IMMUNOMETABOLIC CONTROL BY AMPK & RELATED KINASES
Chair: Ian Salt & Joost Lambooij

03:00 - 03:35pm **AMPK signaling in dendritic cells as checkpoint of immune tolerance**
***Bart Everts**, Leiden University Medical Center, The Netherlands*

03:35 - 04:00pm **Dissecting AMPK signaling in immunometabolism**
***Morgan Fullerton**, University of Ottawa, Canada*

04:00 - 04:15pm **The immune regulator LUBAC regulates AMPK signalling and the response to energetic stress through ubiquitination**
***Rune Busk Damgaard**, Technical University of Denmark, Kongens Lyngby, Denmark*

04:15 - 04:30pm **Role of AMPK in dendritic cell-driven anti-tumor immunity**
***Julian van Duijvenvoorde**, Leiden University Medical Center, The Netherlands*

04:30 - 05:00pm **Coffee Break around partners**

MONDAY, SEPTEMBER 28TH

05:00 - 06:20pm • SESSION 5
AMPK(K)S/NUAKS/SIKS AND OTHER NUTRIENT SENSORS IN CELL AND ORGANELLE BIOLOGY

Chair: Olga Goransson & Lola Lessard

05:00 - 05:35pm LKB1 sequentially activates AMPK related kinases to regulate mitochondrial function in the developing brain
***Julien Courchet**, Université Claude Bernard Lyon 1, France*

05:35 - 05:50pm Nutrient/mTORC1 signaling regulates phosphorylation of AMPKα2 Ser345/Ser377 to prime AMPK activation during energetic stress
***Magnus Narud Zankel,** University of Copenhagen, Denmark*

05:50 - 06:05pm The role of lncRNA GHRLOS in cholesterol metabolic reprogramming during macrophage inflammatory response
***Femke van Geest,** KU Leuven, Belgium*

06:05 - 06:20pm The role of AMP-activated protein kinase in the regulation of Na+,K+-ATPase phosphorylation and expression in skeletal muscle cells
***Sergej Pirkmajer,** University of Ljubljana, Slovenia*

06:20 - 07:15pm Free time

07:15 - 10:00pm Dinner & Social program

TUESDAY, SEPTEMBER 29TH

07:00 - 08:00am **Shaking legs** - *Optional*

08:00 - 09:00am **Breakfast**

09:00 - 10:20am • SESSION 6
AMPK AND AMPK-RELATED KINASES IN EXERCISE & CARDIOMETABOLIC DISEASES
Chair: Miranda Nabben & Ettore Vanni

09:00 - 09:25am **Beyond glucose: uncovering hidden interactions between AMPK and metformin in the cardiovascular system**
Luc Bertrand, *Université Catholique de Louvain, Belgium*

09:25 - 09:50am **Unexplored functions of the kinase NUAK1 in the physiology of the striated skeletal muscle**
Rémi Mounier, *Université Claude Bernard Lyon 1, France*

09:50 - 10:05am **RNA toxicity disrupts AMPK-PGC-1α signaling in Myotonic Dystrophy Type 1 muscle**
Aymeric Ravel-Chapuis, *University of Ottawa, Canada*

10:05 - 10:20am **Defining the liver-specific metabolic functions of SIK3 using novel genetic and targeted protein degradation mouse models**
Maria Madrazo Montoya, *University of Copenhagen, Denmark*

10:20 - 10:45am **Coffee Break around partners**

TUESDAY, SEPTEMBER 29TH

10:45am - 12:15pm • SESSION 7
AMPK FAMILY IN CANCER, AGING AND LONGEVITY
Chair: Craig Byersdorfer & Hanna Hepp

10:45 - 11:20am **LKB1 loss drives premalignant epithelial rewiring along the serrated colorectal cancer pathway**
***Madelon Maurice**, UMC Utrecht, The Netherlands*

11:20 - 11:45am **Shaping the Energy Stress Response: How AMPK Helps Lung Cancer Cell to Cope with Glucose-Deprivation**
***Manuel Johanns**, De Duve Institute, Brussels, Belgium*

11:45 - 12:00pm **Uncovering a mannose dependence in KRAS/LKB1 co-mutant lung cancer**
***Hyunmin Lee**, Yale University, New Haven, USA*

12:00 - 12:15pm **AMPK/O-GlcNAcylation axis, a central regulator of metabolic rewiring in anti-cancer treatment-induced cardiotoxicity**
***Amélie Cammaert**, Université Catholique de Louvain, Brussels, Belgium*

12:15 - 04:30pm **Lunch bag collection and set off for the social programme**

TUESDAY, SEPTEMBER 29TH

04:30 - 05:50pm • SESSION 8
NEW FRONTIERS AND THERAPEUTICS STRATEGIES
Chair: Benoit Viollet & Mahnoor Mahmood

04:30 - 05:05pm **Astrocytic AMPK as a metabolic timekeeper: linking nutrient sensing to circadian behaviour**
***Olga Barca-Mayo**, University of Santiago de Compostela, Spain*

05:05 - 05:20pm **NUAK1/2 as potential therapeutic targets in malignant mesothelioma**
***Dominika Lubawska**, University of Glasgow, UK*

05:20 - 05:35pm **AMPK agonism improves in vivo CAR T cell function across a range of platforms and clinical indications**
***Craig Byersdorfer**, University of Minnesota, Twin Cities, USA*

05:35 - 05:50pm **LKB1 in Schwann cells structures the extracellular matrix to support peripheral nerve myelination**
***Coline Pasteur**, Université Grenoble Alpes, France*

05:50 - 06:50pm **CLOSING LECTURE**
Chair: Bart Everts

Mitochondrial and lysosomal signaling in the cancer-immunity cycle
***Hongbo Chi**, St. Jude Children's Research Hospital, Memphis, USA*

06:50 - 07:05pm **Oral communication & Poster prizes & Travel grant awards**
Chair: Sandrine Horman

07:05 - 07:15pm **Closing remarks**
Chair: Bruno Guigas, Bart Everts & Miranda Nabben

07:15pm **Dinner and Reception**

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