

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

ampk@atoutcom.com • www.atoutcom.com/ampk/

ATOUTCOM



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 Evert

Leiden University
Medical Center,
The Netherlands



Bruno Guigas

Leiden University
Medical Center,
The Netherlands



Miranda Nabben

Maastricht University,
The Netherlands



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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*



Sebastien Leon
*Institut Jacques Monod,
Paris, France*



Remi Mounier
*Universite Claude
Bernard Lyon 1, France*



Ganna Panasyuk
*Institut Necker Enfants
Malades, France*



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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 AMPK for the treatment of insulin resistance and fatty liver disease

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

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

05:45 - 06:00pm Partners pitches

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

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





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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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**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



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MONDAY, SEPTEMBER 28TH

**03:00 - 04:30pm • SESSION 4
IMMUNOMETABOLIC CONTROL BY AMPK & RELATED KINASES**

Chair: Ian Salt & Joost Lambooj

- 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(KS)/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 AMPK α 2 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**



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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 NUA1 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-1 α 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**



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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** **The LKB1-AMPK axis in cancer predisposition: Insights from Peutz-Jeghers Syndrome**
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 collect and set off for the social programme**



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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

Immunometabolism governs T cell and dendritic cell functions 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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