

6th European Workshop on

AMPK



Domaine Saint Joseph · Lyon, France
September 29th to October 2nd, 2024

ORGANIZING COMMITTEE

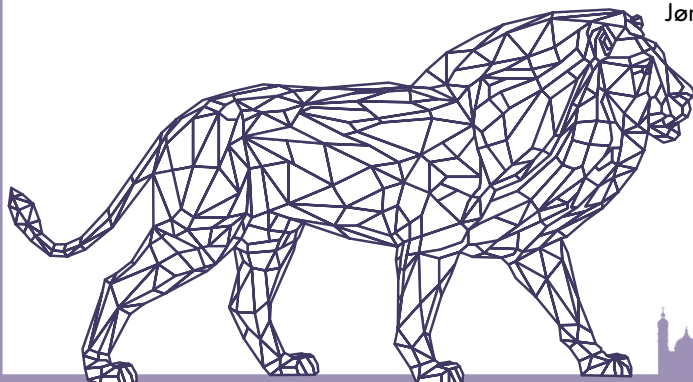
Élise Belaidi
Julien Courchet
Pascal Froment
Sébastien Léon
Rémi Mounier
Chantal Thibert

KEYNOTE SPEAKER

Reuben Shaw, USA

INVITED SPEAKERS

Elena Baena-Gonzalez, UK
Luc Bertrand, Belgium
Vincent Prevot, France
Richard Roy, Canada
Kei Sakamoto, Denmark
Victoria Sanz-Moreno, UK
Flavie Strappazon, France
Jørgen Wojtaszewski, Denmark



SCIENTIFIC PROGRAM



GENERAL ORGANIZATION

Agence ATout.Com
+33(0)4.42.54.42.60
ampk@atoutcom.com
www.atoutcom.com/ampk/



X FOLLOW US!
@AMPK2024

SCAN TO REGISTER



6th European Workshop on AMPK

Domaine Saint Joseph · Lyon, France | September 29th to October 2nd, 2024

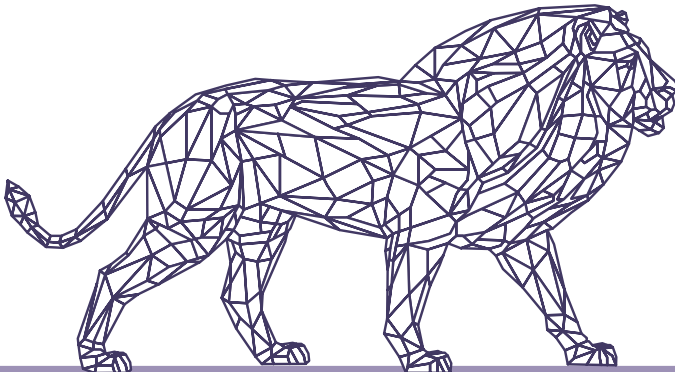


SCIENTIFIC SESSIONS

- Skeletal muscle homeostasis
 - AMPK and related kinases in cancer
 - AMPK and related kinases in cardiovascular diseases
 - AMPK in inter-organ communication
 - AMPK and related kinases in the regulation of cell processes
 - Diversity of AMPK functions across eukaryotic models
 - Systems biology of AMPK and AMPK-related kinases
 - From metabolic signaling to cell fate
 - Emerging and hot topics
-

KEY DATES

- Early bird registration fees: **Until July 19th, 2024**
- Oral Communication submission deadline: **July 19th, 2024**
- Posters submission deadline: **August 19th, 2024**



6th European Workshop on AMPK

Domaine Saint Joseph · Lyon, France | September 29th to October 2nd, 2024

SUNDAY 29TH SEPTEMBER 2024

01:00pm Participants Welcoming & registration

02:00 - 03:00pm
KEYNOTE LECTURE

Reuben Shaw, Salk Institute for Biological Studies - USA

03:00 - 04:00pm Coffee break around sponsors

04:00 - 05:30pm
SESSION 1
SKELETAL MUSCLE HOMEOSTASIS

04:00 - 04:30pm **AMPK in muscle metabolism**

Jørgen Wojtaszewski, University of Copenhagen - Denmark

04:30 - 04:50pm **Drug- and isoform-specific roles for AMPK γ in skeletal muscle glucose uptake**

Tenna Holgersen Bryde

04:50 - 05:10pm **PHF2 Demethylase controls Muscle Stem Cell Fate modulating lipid droplets turnover**

Delia Cicciareello

05:10 - 05:30pm Selection in progress

05:30 - 06:30pm **Poster teasing**

06:30 - 07:30pm **Welcome Cocktail**

07:30 - 10:00pm **Poster Session 1**

6th European Workshop on AMPK

Domaine Saint Joseph · Lyon, France | September 29th to October 2nd, 2024

MONDAY 30TH SEPTEMBER 2024

08:30am Participants Welcoming

09:00 - 10:30am
SESSION 2
AMPK AND RELATED KINASES IN CANCER

09:00 - 09:30am **AMPK is a mechano-metabolic sensor during tumour dissemination**

Victoria Sanz-Moreno, The Institute of Cancer Research - UK

09:30 - 09:50am **Insights into the mechanistic action of AMPK inhibitor BAY-3827**

Conchita Fraguas Bringas

09:50 - 10:10am **Contributions of LKB1 signaling in peripheral nerve formation during development and in nerve-tumor communication during lung cancer**

Jordan Allard

10:10 - 10:30am Selection in progress

10:30 - 11:00am Coffee break around sponsors



6th European Workshop on AMPK

Domaine Saint Joseph · Lyon, France | September 29th to October 2nd, 2024

MONDAY 30TH SEPTEMBER 2024

11:00 - 12:30pm

SESSION 3

AMPK AND RELATED KINASES IN CARDIOVASCULAR DISEASES

11:00 - 11:30am **AMPK and cardiac O-GlcNAcylation, clash of Titans**

Luc Bertrand, Catholic Louvain University - Belgium

11:30 - 11:50am **Lack of AMP-activated protein kinase- α 1 reduces nitric oxide synthesis by thoracic aorta perivascular adipose tissue**

Ian Salt

11:50 - 12:10pm Selection in progress

12:10 - 12:30pm Selection in progress

12:30 - 02:00pm Lunch

02:00 - 03:30pm

SESSION 4

AMPK IN INTER-ORGAN COMMUNICATION

02:00 - 02:30pm **Metformin enhances the access of circulating leptin to the brain via tanycytes in diet-induced obesity: A Role for AMPK?**

Vincent Prevot, University of Lille - France

02:30 - 02:50pm **A Novel Inhibitory Role for the AMPK γ 3 NH₂-Terminal Extension**

Muhammad Nur Hamizan Bin Khabib

02:50 - 03:10pm **Combined deletion of cytosolic 5'-nucleotidases NT5C1A and NT5C2 in mice results in mild hypoglycemia with enhanced insulin sensitivity**

Manuel Johanns

03:10 - 03:30pm Selection in progress

03:30 - 04:00pm Coffee break around sponsors

6th European Workshop on AMPK

Domaine Saint Joseph · Lyon, France | September 29th to October 2nd, 2024

MONDAY 30TH SEPTEMBER 2024

04:00 - 05:30pm

SESSION 5

AMPK AND RELATED KINASES IN THE REGULATION
OF CELL PROCESSES



sbcf

French Society for Cell Biology

04:00 - 04:30pm **Selective autophagy in physiopathology**

Flavie Strappazon, Claude Bernard Lyon 1 University - France

04:30 - 04:50pm **Novel torin1-sensitive phosphorylation sites
on the metabolic regulator AMPK revealed by label-free
mass spectrometry**

Ashley J. Ovens

04:50 - 05:10pm **Thermogenic compensation by AMPK activation
in the absence of futile lipid cycling**

Anand Kumar Sharma

05:10 - 05:30pm Selection in progress

05:30 - 08:30pm **Poster Session 2 & Snacks and drinks**

08:30pm Dinner





6th European Workshop on AMPK

Domaine Saint Joseph · Lyon, France | September 29th to October 2nd, 2024

TUESDAY 1ST OCTOBER 2024

08:30am Participants Welcoming

09:00 - 10:30am

SESSION 6

DIVERSITY OF AMPK FUNCTIONS ACROSS EUKARYOTIC MODELS

09:00 - 09:30am **Regulation of plant growth and development
by the AMPK/SnRK1 kinase**

Elena Baena-Gonzalez, University of Oxford - UK

09:30 - 09:50am **Snf1/AMPK in budding yeast:
a kinase with several functions**

Paola Coccetti

09:50 - 10:10am **In mouse testis, a disturbance in fructose metabolism
leads to hyperandrogenism similar to an AMPK deficiency**

Aikaterini Kallianioti

10:10 - 10:30am Selection in progress

10:30 - 11:00am Coffee break around sponsors

11:00 - 12:30pm

ROUND TABLE

ANIMAL MODELS TO STUDY AMPK: STRENGTHS,
LIMITATIONS, ETHICAL CHALLENGES

12:30 - 02:00pm Lunch

6th European Workshop on AMPK

Domaine Saint Joseph · Lyon, France | September 29th to October 2nd, 2024

TUESDAY 1ST OCTOBER 2024

02:00 - 03:30pm

SESSION 7

SYSTEMS BIOLOGY OF AMPK AND AMPK-RELATED KINASES

02:00 - 02:30pm **The salt-inducible kinases: key metabolic regulators?**

Kei Sakamoto, University of Copenhagen - Denmark

02:30 - 02:50pm **Identification of spatially distinct pools of AMPK/SNF1 and their targets in yeast**

Marco Caligaris

02:50 - 03:10pm **Experimentally-driven mathematical model to understand the effects of matrix deprivation in breast cancer metastasis**

Sayoni Maiti

03:10 - 03:30pm Selection in progress

04:30 - 07:30pm **Social Event visiting Lyon**

07:30pm **Dinner in Lyon**



6th European Workshop on AMPK

Domaine Saint Joseph · Lyon, France | September 29th to October 2nd, 2024

WEDNESDAY 2ND OCTOBER 2024

08:30am Participants Welcoming

09:00 - 10:30am

SESSION 8

FROM METABOLIC SIGNALING TO CELL FATE

09:00 - 09:30am **Neuronal AMPK activity directs miRNA traffic to preserve stem cell integrity**

Richard Roy, McGill University - Canada

09:30 - 09:50am **ASD-related kinase NUAK1 regulates neuronal splicing events through its interaction with ZTTK syndrome-associated protein SON**

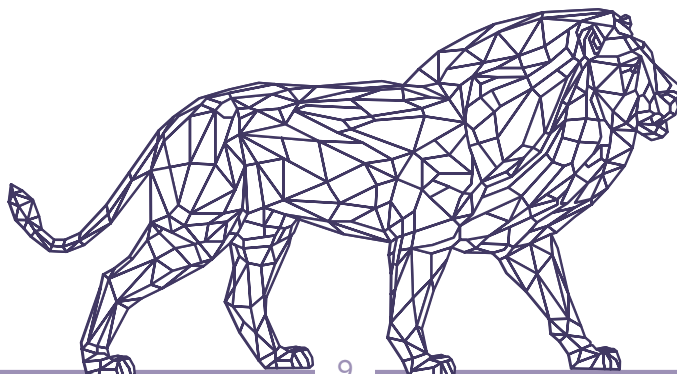
Martijn Kerkhofs

09:50 - 10:10am **Frataxin depletion leads to decreased soma size and activation of the AMPK metabolic pathway in dorsal root ganglia sensory neurons**

Deepika Mokkachamy Chellapandi

10:10 - 10:30am Selection in progress

10:30 - 11:00am Coffee break around sponsors



6th European Workshop on AMPK

Domaine Saint Joseph · Lyon, France | September 29th to October 2nd, 2024

WEDNESDAY 2ND OCTOBER 2024

11:00 - 12:20pm
SESSION 9
EMERGING AND HOT TOPICS

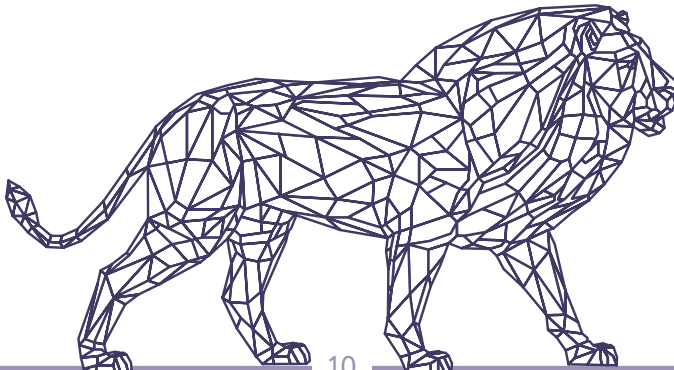
11:00 - 11:20am The AMPK activation profiles of MK-8722, SC4 and A769662 in endothelial cells
Heena Doshi

11:20 - 11:40am Polymeric nanoparticles delivery of AMPK activator 991 prevents its toxicity and improves muscle homeostasis in Duchenne Muscular Dystrophy
Gaëtan Juban

11:40 - 12:00pm Selection in progress

12:00 - 12:20pm Selection in progress

12:20 pm Closing remarks
End of the 6th European Workshop on AMPK



6th European Workshop on AMPK

Domaine Saint Joseph · Lyon, France | September 29th to October 2nd, 2024

SPEAKERS FACULTY

*Elena Baena-Gonzalez,
University of Oxford - UK*

*Victoria Sanz-Moreno,
The Institute of Cancer Research - UK*

*Luc Bertrand,
Catholic Louvain University - Belgium*

*Reuben Shaw,
Salk Institute for Biological Studies - USA*

*Vincent Prevot,
University of Lille - France*

*Flavie Strappazon,
Claude Bernard Lyon 1 University - France*

*Richard Roy,
McGill University - Canada*

*Jørgen Wojtaszewski,
University of Copenhagen - Denmark*

*Kei Sakamoto,
University of Copenhagen - Denmark*

ORGANIZING COMMITTEE

*Élise Belaidi,
Claude Bernard Lyon 1 University - France*

*Sébastien Léon,
Jacques Monod Institute - France*

*Julien Courchet,
Claude Bernard Lyon 1 University - France*

*Rémi Mounier,
Claude Bernard Lyon 1 University - France*

*Pascal Froment,
INRAE - France*

*Chantal Thibert,
Grenoble Alpes University - France*

