



September 17-20, 2017

3rd European Workshop on AMPK

Île de Porquerolles, France

Sunday, September 10th

- 16:00 - 19:15: Registration

- 19:30 - 20:30: Dinner

- 20:30: Welcome address

- 20h45: Opening keynote lecture (1h):

Dietbert Neumann, University of Maastricht, Maastricht, The Netherlands.

"AMPK: from a kinase to a field of study"

Monday, September 11th

Session 1: AMPK – from cellular homeostasis to tissue regeneration

9:00- 9:40: **Invited lecture** by **Louise Deldicque**, Université catholique de Louvain, Louvain-la-Neuve, Belgium.

"AMPK-dependent and -independent regulation of autophagy in skeletal muscle"

9:40 - 10:10: Bruno Guigas, Leiden University, Leiden, The Netherlands
"Chronic intermittent hypoxia improves whole-body glucose tolerance by activating skeletal muscle AMPK"

10:10 - 10:30: Cécile Dufey, Université catholique de Louvain, Brussels, Belgium

"Role of fibroblastic AMPK α 1 in left ventricular remodeling after myocardial infarction"

10:30 - 11:00: Coffee break

11:00 - 11:20: Kathrin Sprengler, University of Jena, Jena, Germany
"Regulation of endothelial autophagy and angiogenesis by the VEGF/AMPK α 1 pathway"

11:20 - 11:40: Jiehua Qiu, Ludwig-Maximilian University, Munich, Germany
"AMPK causes vasodilation by reducing calcium sensitivity and altering actin filament dynamics in microvascular smooth muscle"

11:40 - 12:00: Franziska Kopietz, Lund University, Lund, Sweden
"Effect of AMPK activation on lipolysis in adipocytes from three different species"

12:00 - 12:20: Meriem Ladli, Institut Cochin, Paris, France
"Role of AMPK in erythropoiesis"

- 12:20 -14:00: Lunch

Session 2: AMPK as drug target

14:00- 14:40: Invited lecture by **Simon Hawley**, University of Dundee, Dundee, UK
"Canonical and non-canonical regulation of the AMP-activated protein kinase"

14:40 -15:10: Matthews Calabrese, Pfizer
"Isoform-selective activators of AMPK for metabolic diseases"

15:10 -15:30: Kevin Ngoei, University of Melbourne, Fitzroy, Australia
"SC-4, A Novel AMPK Activator targeting the Allosteric Drug and Metabolite (ADaM) site"

15:30 - 15:50: Brendan Gongol, University of California, San Diego, USA
"Bioinformatics screening identifies an AMPK mediated nucleosome remodeling network"

15:50 - 18:00: Free time

15:50 - 19:30: Poster session + drinks

19:30 - 20:30: Dinner

Tuesday, September 12th

Session 3: AMPK in health and disease

9:00- 9:40: Invited lecture by **Morgan Fullerton**, University of Ottawa, Ottawa, Canada.
"Macrophage AMPK links cholesterol and lysosomal homeostasis"

09:40 - 10:10: Zhi-Xiong Xiao, Sichuan University, Chengdu, China
"AMPK and oncogenic signaling in cancer metastasis"

10:10 - 10:30: Adrien Grenier, Institut Cochin, Paris, France
"PERK is a novel AMPK target involved in apoptotic response to chemical AMPK activation in acute myeloid leukemia"

10:30 - 11:00: Coffee break

11:00 - 11:20: Darya Zibrova, University of Jena, Jena, Germany
"GFAT1 phosphorylation by ampk inhibits HBP and promotes VEGF-induced angiogenesis in endothelial cells"

11:20 - 11:40: Sarah Mancini, University of Glasgow, Glasgow, UK
"Anti-inflammatory actions of canagliflozin on human endothelial cells – a role for AMPK"

11:40 - 12:00: Marine Angé, Université catholique de Louvain, Brussels, Belgium
" α 1ampk protects against endothelial barrier dysfunction through regulation of cx43 expression and hsp27 phosphorylation"

12:00 - 12:20: Shohei Yashigori, Osaka University, Osaka, Japan
"Regulation of microtubules dynamic instability by AMPK in cardiomyocytes"

- 12:20 -14:00: Lunch

Session 4: AMPK and related kinases in neuronal biology

14:00 - 14:40: **Invited lecture** by **Julien Courchet**, Institut NeuroMyoGene, Université de Lyon, Villeurbanne, France.
"AMPK and AMPK-related kinases in cortical axon development"

14:40 -15:10: Chantal Thibert, Université Grenoble Alpes, Grenoble, France
"The tumor suppressor LKB1 controls cell fate through pyruvate-alanine transamination"

15:10 -15:40: Valérie Vingtdeux, Université de Lille, Lille, France
"Involvement of AMPK in the maintenance of energy levels during synaptic activation"

15:40 - 16:00: Patricia Seoane-Collazo, University of Santiago de Compostela, Santiago de Compostela, Spain
"AMPK α 1 in ventromedial hypothalamic sf-1 neurons mediates whole-body energy balance"

- 16:00 - 19:00: Social event

- 19:30 - 21:30: Gala Dinner

Wednesday, September 13th

Session 5: AMPK: novel directions

9:00- 9:40: **Invited lecture** **Fabienne Andris**, Université Libre de Bruxelles, Gosselies, Belgium.
"AMPK and control of memory T lymphocyte homeostasis"

9:40 - 10:00: Jordane Divoux, CIMI, Paris, France
"AMPK pathway in regulatory T cell may be critical to maintain oxydative metabolism and keep energy balance during inflammation"

10:00 - 10:30: Nuno Raimundo, Institute of Cellular Biochemistry, Goettingen, Germany
"AMPK regulates lysosomal function and coordinates the crosstalk between mitochondria and lysosomes"

10:30 - 11:00: Coffee break

11:00 -11:30: Armin Pause, McGill University, Montreal, Canada
" An evolutionarily conserved FLCN-AMPK-TFEB/TFE3 pathway for innate host defense"

11:30 - 11:50: Kumar Ashok, Wayne State University, Detroit, USA
"AMPK regulates antiviral innate responses against ocular Zika virus infection"

11:50 - 12:00: Closing remarks

- 12:00: Lunchbag and return to the mainland