

# Program - Tuesday 8 September

13:00 - 14:15 Registration & Welcome coffee

## 1: Cancer and Autoimmune Diseases

Chair: Max Mazzone

14:15 - 14:35 Welcome  
**Peter Carmeliet**, VIB Vesalius Research Center, KU Leuven, BE

14:35 - 15:35 KEYNOTE: Regulation of cell metabolism to support tumor growth  
**Matt Vander Heiden**, Koch Institute for Integrative Cancer Research, MIT, US

15:35 - 16:10 mTOR signaling in lymphocyte homeostasis and tumorigenesis  
**Hongbo Chi**, St. Jude Children's Research Hospital, US

## 16:10 - 16:40 Coffee Break

16:40 - 17:15 Exploiting the Metabolic Flexibility of Th17 Cells for the treatment of Autoimmunity and Cancer  
**Gary Glick**, University of Michigan, US

17:15 - 17:35 P53 attenuates AKT signaling by modulating membrane phospholipid composition (*Selected abstract*)  
**Natalia Rueda**, KU Leuven, BE

17:35 - 17:55 Reprogramming GABA Metabolism towards GHB production decreases 5-hydroxymethylcytosine levels to repress malignant glioma cell growth (*Selected abstract*)  
**Marie-Pierre Junier**, INSERM, FR

## 18:30 - 20:00 Belgian Beer Tasting @ The Capital

# Program - Wednesday 9 September

## 2: Angiogenesis & Cardiovascular Diseases

Chair: Peter Carmeliet

09:00 - 10:00 KEYNOTE: Angiogenesis revisited: endothelial metabolism as a target?  
**Peter Carmeliet**, VIB Vesalius Research Center, KU Leuven, BE

10:00 - 10:35 Metabolic control of lymphatic development  
**Michael Simons**, Yale University, US

10:35 - 11:05 Coffee break

11:05 - 11:40 Metabolic checkpoints during vascular growth and quiescence  
**Michael Potente**, Max Planck Institute for Heart and Lung Research, DE

11:40 - 12:15 PGC-1 and endothelial metabolism  
**Zolt Arany**, University of Pennsylvania, US

12:15 - 12:35 Regulation of endothelial metabolism by laminar shear stress  
**Reinier Boon**, Goethe-University Frankfurt am Main, DE

12:40 - 13:40 Lunch

13:40 - 15:10 Poster session 1 - numbers 1-29

## 3: Cancer & Mitochondrial Metabolism

Chair: M. Celeste Simon

15:10 - 15:45 How mitochondrial metabolism leads to ROS production  
**Mike Murphy**, Cambridge, UK

15:45 - 16:20 Tricarboxylic acid cycle metabolism in cells  
**Sarah-Maria Fendt**, VIB Vesalius Research Center, KU Leuven, BE

16:20 - 16:50 Coffee Break

16:50 - 17:25 Fatty acid metabolism in cancer cells: Are we looking at the right pathway?  
**Karsten Hiller**, University of Luxembourg, LU

17:25 - 18:00 VEGF blockade elicits a stable metabolic shift in tumor cells  
**Stefano Indraccolo**, Istituto Oncologico Veneto-IRCCS, IT

18:00 - 18:20 New insights into the mode of action of metformin through calcium flux modifications and its consequences on cancer cells mitochondria (*Selected abstract*)  
**Frederic Bost**, INSERM U1065, FR

19:30 - 22:00 Conference Dinner @ Faculty Club

# Program - Thursday 10 September

## 4: Stromal Cell Metabolism

Chair: Karsten Hiller

09:00 - 09:35 Influence on Vessel Shape of Macrophage Metabolism in the Tumor Hypoxic Niche  
**Max Mazonne**, VIB Vesalius Research Center, KU Leuven, BE

09:35 - 10:10 Fueling T cell activation and anti-tumor immunity  
**Jeff Rathmell**, Duke University School of Medicine, US

### 10:10 - 10:40 Coffee break

10:40 - 11:15 Metabolic adaptation: implications for immunity  
**Russel Jones**, McGill University, US

11:15 - 11:35 Role of fatty acid  $\beta$ -oxidation in lymphatic development (*Selected abstract*)  
**Annalisa Zecchin**, Vesalius Research Center, KU Leuven, BE

11:35 - 11:55 Metabolic reprogramming of tumor-specific T cell boosts anti-tumor immunity by re-adjusting T cell metabolic fitness in the tumor microenvironment (*Selected abstract*)  
**Ping-Chih Ho**, University of Lausanne, CH

### 12:00 - 13:00 Lunch

### 13:00 - 14:30 Poster session 2 - numbers 30-59

## 5: Metabolism in Complex Diseases

Chair: Sarah-Maria Fendt

14:30 - 15:30 KEYNOTE: Metabolic Adaptations in Renal Cancer  
**M. Celeste Simon**, University of Pennsylvania School of Medicine, US

15:30 - 16:05 Mitochondrial metabolism and the determination of cell fate  
**Kris Olson**, University of Utah, US

### 16:05 - 16:35 Coffee break

16:35 - 17:10 Obesity, Metabolism and Cancer: Mechanistic Lessons from Transdisciplinary Studies  
**Stephen Hursting**, UNC School of Medicine, US

17:10 - 17:45 Metabolism bottom-up: a haystack of needles  
**Nicola Zamboni**, ETH Zürich, CH

### 17:45 - 18:00 Closing remarks