

EVOlUTION Conference
September 9th – 11th, 2019

Seeon Abbey
Bavaria
Germany

CONFERENCE PROGRAMME

Monday, 9th September 2019

- 13:00-14:00 Lunch
- 14.30-14:45 Welcome address: Mauro Perretti (Queen Mary University of London and EVOlUTION Co-ordinator) & Oliver Söhnlein (LMU Munich, Conference Host)
- Session 1: Turning off inflammation**
Chairs: Catherine Godson and Laura Menke
- 14:45-15:30 **Key Note Lecture:** Charles Serhan
Lipid mediators – from inflammation to resolution
- 15:45-16:05 Antonino Cacace, Evolution ITN, University College Dublin
FPR2 agonists as modulators of vascular complications of diabetes
- 16:10-16:30 Sanne Maas, Evolution ITN, LMU Munich
Instructing FPR2 for treatment of atherosclerosis and myocardial infarction
- 16:35-17:00 coffee break
- 17.00-17:20 Eoin Brennan, University College Dublin
Resolving lipid mediators in diabetes and its complications
- 17:25-17:45 Rebecca Siemel, Evolution ITN, ISD Munich
Role of inhaled NO for neuroinflammation after ischemic stroke
- 17:50-18:10 Artur Liesz, ISD Munich
Mechanisms of systemic immune activation after stroke
- 18:15-18:35 Olaf Wolkenhauer and Shailendra Gupta, SBI Rostock
System biology approach to inflammation resolution
- 19:00 Dinner and “Kegelbahn”

Tuesday, 10th September 2019

Session 2: Vascular Inflammation
Chairs: Amrita Ahluwalia and Silvia Oggero

- 9:00-9:45 **Key note lecture:** Fil Swirski, Harvard Medical School
Lifestyle and Cardiovascular Disease

- 10:00-10:20 Angelina Pavlic, Evolution ITN, CARIM, Maastricht
Targeted treatment of vascular calcification
- 10:25-10:45 Jan Nagenborg, Evolution ITN, CARIM, Maastricht
Re-instructing the atherosclerotic plaque macrophage
- 10:45-11:05 coffee break
- 11:05-11:25 Lars Maegdefessel, TU Munich
Non-coding RNAs in atherosclerosis
- 11:30-11:50 Sabine Steffens, LMU Munich
Endocannabinoids and related lipid mediators in atherosclerosis
- 11:55-12:15 Thorsten Kessler, German Heart Center, Munich
Genetic risk in coronary artery disease
- 12:20 Lunch

Session 3: Proof of concept approaches for innovative therapeutics

Chairs: Chris Reutelingsperger and Angelina Pavlic

- 13:45-14:05 Thomas Jonassen, University of Copenhagen
Drug development in the Resolution Therapy area
- 14:10-14:30 Monika Maciuszek, Evolution ITN, LifeArc, Stevenage
Design and synthesis of novel small molecule agonists of the FPR2 receptor
and their potential application in the treatment of cardiovascular
inflammation
- 14:35-14:55 Christian Weber, LMU Munich
Tailored interference with chemokines
- 15:00-15:20 Silvia Oggero, Evolution ITN, QMUL, London
Microparticles as natural nanomedicines to control vascular reactivity
- 15:25-15:45 Carlos Silvestre-Roig, LMU Munich
Neutralizing extracellular histones blunts inflammation
- 15:50-16:10 coffee break
- 16:10-16:55 **Key note lecture:** Eicke Latz, University of Bonn
Targeting inflammasomes
- 17:10-17:30 Ploingarm Petsophonakul, Evolution ITN, CARIM, Maastricht
Nutraceuticals modulating the vascular vitamin K-system
- 17:35-17:55 Esther Lutgens, AMC, Amsterdam & LMU Munich
Traf-Stops to prevent arterial inflammation
- 18:00-20:00 Student poster competition, with beers
- 20:00 Reception/dinner

Wednesday, 11th September 2019

Session 4: Dietary approaches to boost tissue protection

Chairs: Jon Lundberg and Ploingarm Petsophonsakul

- 9:00-9:45 **Key note lecture:** Federica Marelli-Berg, QMUL
Metabolic control of leukocyte function
- 10:00-10:20 Tipparat Parakaw, Evolution ITN, QMUL, London
The exploration of the therapeutic potential of dietary nitrate on platelet activity: role for Xanthine Oxidoreductase (XOR)
- 10:25-10:45 Laura Menke, Evolution ITN, QMUL, London
Dihomo- γ -linolenic acid enhances aspirin-mediated inhibition and alters the proteomic releasate profile in platelets
- 10.50-11:10 Coffee break
- 11:10-11:30 Mattias Carlström, KI, Stockholm
Modulation of oxidative stress and inflammation by dietary nitrate in renocardio-metabolic disease
- 11:35-11:55 Chiara Moretti, Evolution ITN, KI, Stockholm
The Nitrate-Nitrite-Nitric Oxide Pathway: Impact on Cardiovascular and Metabolic Function
- 12:00 Closing remarks: Nick Plesnila and Mauro Perretti
- Lunch and tour of Camba Bavaria brewery