

Thursday 3 May 2018

8.30-13.00

Registration

8.50-9.00

M. Tognolini – *University of Parma, Parma, Italy*

Welcome and introductory remarks

9.00-9.25

E. Pasquale - *Sanford-Burnham Prebys Medical Discovery Institute, La Jolla, USA*

Opening lecture: Eph receptors and ephrins in 2018

Structural biology and trafficking

9.25-9.50

B. Wang - *Case Western Reserve University, Cleveland, USA*

Spatiotemporal regulation of EphA2 receptor oligomerization: insights from PIE-FCCS single molecule live cell analyses

9.50-10.10

S. Lahaie - *McGill University, Montréal, QC, Canada*

HD-PTP, an ESCRT protein, is required for EphB2 forward signalling in cell cytoskeletal dynamics and axon guidance

10.10-10.35

J. P. Himanen - *Memorial Sloan-Kettering Cancer Center, New York, USA*

Functional relevance of the head-to-head vs head-to-tail Eph-Eph interactions for receptor activation

10.35-10.55

S. Ojosnegros - *California Institute of Technology, Pasadena, USA*

A new dynamic model for the activation of the Eph receptor based on live-cell brightness analysis

10.55 – 11.30

Coffee break

Biology and Physiology

11.30-11.55

M. Henkemeyer - *UT Southwestern Medical Center, Dallas, USA*

EphB-EphrinB bidirectional signaling in the nervous system and beyond

11.55-12.20

R. Lamprecht - *University of Haifa, Haifa, Israel*

The role of EphB2 in memory formation

12.20-12.45

J. Wu - *University of Montreal, Montreal, Canada*

Unraveling the functions of EPH-B/EFN-B in the immune system and in the control of blood pressure and heart rhythm

12.45-13.10

A. Davy - *CNRS, Université de Toulouse, Toulouse, France*

Eph signaling in progenitors of the neocortex: sticky with added vitamins

13.10-14.30

Lunch

Eph and cancer

14.30-14.55

Y. Maru - *Tokyo Women's Medical University, Tokyo, Japan*

Analysis of soluble forms of ephrin-A1

14.55-15.20

J. Chen - *Vanderbilt University, Nashville, USA*

EphA2 RTK in cancer and metabolism

15.20-15.40

P. W. Janes – *Monash University, Clayton, Australia*

Inducible knock-down of endogenous EphA3 in mice reveals novel roles for EphA3 in the inflammatory tumour microenvironment

15.40-16.00

S. Karam - *University of Colorado, Aurora, USA*

Inhibition of EphB4-ephrin-B2 interaction remodels the tumor immune microenvironment in head and neck cancers

16.00– 16.30

Coffee break

Eph and other pathologies

16.30-16.50

C. Cheng - *The Scripps Research Institute, La Jolla, USA*

EphA2 and ephrin-A5 maintain distinct eye lens epithelial cell populations

16.50-17.10

L. Poppe – *KU Leuven-University of Leuven, Leuven, Belgium*

Impact of EphA4 ablation on cognitive function and disease pathology in a mouse model of Alzheimer's disease

17.10-17.30

D. Poitz - *TU Dresden, Dresden, Germany*

Stop-and-go: ephrinA1 in endothelial migration and proliferation

Evening

SOCIAL EVENT

Friday 4 May 2018

9.00-11.00

Breakfast at the poster session

Targeting the Eph/ephrin system

11.00-11.25

A. Lodola - *University of Parma, Parma, Italy*

Overview on the pharmacological tools to target Eph/ephrins

11.25-11.50

B. Day - *Queensland Institute of Medical Research, Brisbane, Australia*

EphA3 a functional targetable receptor for adult and pediatric brain cancer

11.50-12.10

M. Leone - *Institute of Biostructures and Bioimaging (CNR), Napoli, Italy*

Peptides targeting the Sam domain of EphA2 and its interactome

12.10-12.35

M. Pellicchia - *University of California Riverside, Riverside, USA*

Chemical biology strategies for targeting the EphA2 and EphA4 ligand binding domains: applications in neurodegeneration and oncology

12.35-12.55

A. Bedini - *University of Bologna, Bologna, Italy*

Mu opioid receptor (MOR) activation by morphine in neuronal cell models is dampened by ephrinB1-induced signaling and may be rescued by novel EphB1 receptor peptide antagonists

12.55-13.00

Farewell (E.Pasquale – M. Tognolini)