

# Second Congress on the Eph/ephrin System

State of the art, challenges and opportunities

May 3-4, 2018

Parma, Italy

Aula Magna, Via Università 12



## UNIVERSITÀ DI PARMA

### Thursday 3 May 2018

8.30-13.00	<b>Registration</b>
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	<b>Breakfast at the poster session</b>
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. Pellecchia - 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	<b>Farewell (E. Pasquale - M. Tognolini)</b>



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### Scientific committee

M. Tognolini, University of Parma, Italy  
A. Lodola, University of Parma, Italy  
E. Pasquale, SBP Medical Discovery Institute, La Jolla, USA  
Y. Maru, Tokyo Women's Medical University, Tokyo, Japan

### Organizing committee

**Akesios group**  
M. Corrado, University of Parma, Italy  
C. Giorgio, University of Parma, Italy  
A. Lodola, University of Parma, Italy  
M. Tognolini, University of Parma, Italy  
I. Zanotti, University of Parma, Italy