UNIVERSITÀ DI PARMA

Second congress on the Eph/ephrin system

Parma, Italy

May 3-4, 2018

State of the art, challenges and opportunities

Thursday 3 May 2018	
8.30-13.00	*Registration*
8.50-9.00	*M. Tognolini - 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 ***Chair: M.Tognolini (Italy) - M. Henkemeyer (USA)***	
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, CA, 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 ***Chair: Y.Maru (Japan) – B. Wang (USA)***	
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, 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 ***Chairs: E. Pasquale (USA) – B. Day (Australia)***	
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, CO, 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 ***Chairs: J. Chen (USA) - E. Pasquale (USA)***	
16.30-16.50	C.Cheng *The Scripps Research Institute, La Jolla, CA, 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, 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 Chairs: M. Mor (Italy) – J.P. Himanen (USA)	
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, CA, 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*

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FONDAZIONE CARIPARMA

BRITISH PHARMACOLOGICAL SOCIETY