



# Barcelona BioMed Conference Centrosomes, cilia and cell cycle in development and disease" (11-13 June, 2018)

**Monday, June 11, 2018**

8.30 Registration

9.00 Welcome by the organizers

## Session I

Chair: Travis Stracker

- 9.15 **The multitasking nature of Drosophila Centrobin**  
Cayetano Gonzalez, IRB Barcelona/ICREA (Barcelona, Spain)
- 9.40 **Short talk 1 The ciliopathy gene Ftm/Rpgrip1l controls patterning and cell fate in the mouse forebrain via region-specific modulation of Hedgehog/Gli signaling**  
Abraham Andreu, Sorbonne Université - Institut de Biologie Paris-Seine - CNRS (Paris, France)
- 9.55 **Blood, brain and size: can the centrosome do it all?**  
Fanni Gergely, University of Cambridge (Cambridge, UK)
- 10.20 - 11.50 *Coffee break and poster session*
- 11.50 **Intraflagellar transport is deeply integrated in hedgehog signaling**  
Gregory J. Pazour, University of Massachusetts Medical School (Worcester, MA, USA)
- 12.15 **Short talk 2 Functional Analysis of Rbm26**  
Ana Curinha, Sektion for Molecular Pathophysiology, CCB, Biocenter (Innsbruck, Austria)
- 12.30 **Cell cycle asynchrony and DNA damage at mitotic entry contribute to the evolution of polyploid karyotypes**  
Renata Basto, Institut Curie (Paris, France)
- 13.00 - 15.00 *Lunch (IEC courtyard)*

## Session II

Chair: to be determined

- 15.00 **Phosphoproteomic screening identifies centrosome and cytoskeleton regulators as novel targets of the CDKL5 kinase**  
John Rouse, School of Life Sciences- University of Dundee (Dundee, Scotland, UK)
- 15.25 **Short talk 3 Regulating the centrosome cycle through phosphorylation. Roles of the NIMA-family protein kinases**  
Joan Roig, IBMB-CSIC (Barcelona, Spain)
- 15.40 **GEMC1 and Multicilin: identical twins or distinct individuals in the Geminin family?**  
Travis Stracker, IRB Barcelona (Barcelona, Spain)
- 16.05 - 17.50 *Coffee break and poster session*
- 17.50 **Adult neural stem cells and ependymal cells share a common lineage**  
Nathalie Spassky, Institut de Biologie de l'École Normale Supérieure (Paris, France)
- 18.15 **Short talk 4 CDC20B is required for deuterosome-mediated centriole production in multiciliated cells**  
Camille Boutin, IBDM CNRS UMR (Marseille, France)
- 18.30 **Centrosome homeostasis and its dysregulation in disease**  
Andrew Holland, Johns Hopkins University School of Medicine (Baltimore, MD, USA)
- 18.55 *End of session remarks*

## Tuesday, June 12, 2018

### Session III

Chair: Renata Basto

- 9.15 **Tau tubulin kinase 2 (TTBK2) and the links between primary cilia and neural degeneration**  
Sarah Goetz, Duke University (Durham, USA)
- 9.40 **Short talk 5 Therapeutic targeting of the  $\gamma$ -tubulin meshwork in RB1-negative tumors**  
Maria Alvarado-Kristensson, Lund University (Malmö, Sweden)
- 9.55 **Coordinating microtubule cytoskeleton organization with the transition from proliferation to differentiation**  
Jens Lüders, IRB Barcelona (Barcelona, Spain)
- 10.20 - 11.50 *Coffee break and poster session*

- 11.50 **Progenitor abnormalities during brain development leading to heterotopia**  
Fiona Francis, École des Neurosciences de Paris Île-de-France (Paris, France)
- 12.15 **Short talk 6 SDCCAG8 is a schizophrenia risk gene that is required for efficient primary ciliogenesis**  
Ciaran G. Morrison, National University of Ireland Galway (Galway, Ireland)
- 12.30 **Microcephalic primordial dwarfism: a cell cycle disorder?**  
Andrew Jackson, University of Edinburgh (Edinburgh, UK)
- 13.00 - 15.00 **Lunch (IEC courtyard)**

#### **Session IV**

**Chair:** Fanni Gergely

- 15.00 **Targeting cilia checkpoint in patient-derived glioma stem cells**  
Jay Gopalakrishnan, University of Cologne (Cologne, Germany)
- 15.25 **Short talk 7 Resting cells rely on the DNA helicase component MCM2 to build cilia**  
Melanie Philipp, Ulm University- Institute for Biochemistry and Molecular Biology (Ulm, Germany)
- 15.40 - 16.45 **Coffee break and poster session**
- 16.45 **Genome Maintenance and Nervous System Development**  
Peter McKinnon, St. Jude Children's Research Hospital (Memphis, TN, USA)
- 17.10 **Short talk 8 Chromosomal instability induces cellular invasion in epithelial tissues**  
Marco Milán, IRB Barcelona/ ICREA (Barcelona, Spain)
- 17.25 **Functional dissection of the centrosome-cilium proximity interaction landscape**  
Laurence Pelletier, Lunenfeld-Tanenbaum Research Institute (Toronto, Ontario, Canada)
- 17.50 **End of session remarks**
- 20.30 **Speakers dinner**  
*Restaurant els 4 Gats (Montsió, 3)*

## Wednesday, June 13, 2018

### Session V

Chair: Jens Lüders

- 9.15 **The Love-Hate Relationship between the Centrosome and Cilia**  
Bryan Tsou, Memorial Sloan Kettering Cancer Center (NY, USA)
- 9.40 **Short talk 9 Cholesterol is indispensable for proper cilium formation and function**  
Lars D. Maerz, Ulm University- Institute for Biochemistry and Molecular Biology (Ulm, Germany)
- 9.55 **Short talk 10 Primary cilia mediate diverse kinase inhibitor resistance mechanisms in cancer**  
Barbara E. Tanos, Institute of Cancer Research (London, UK)
- 10.10 - 10.45 *Coffee break and poster session*
- 10.45 **Congenital heart disease: is it a ciliopathy?**  
Cecilia W. Lo, University of Pittsburgh (Pittsburgh, PA, USA)
- 11.10 **Short talk 11 A tight control of mitochondrial function prevents heart defects through faithful ciliogenesis**  
Martin D. Burkhalter, Ulm University- Institute for Biochemistry and Molecular Biology (Ulm, Germany)
- 11.25 **Breaking the rules: centriole amplification and loss in differentiated cells**  
Tim Stearns, Stanford University (Stanford, California, USA)
- 11.45 *Closing remarks and departure*