ARMI SPECIAL SPEAKER 2019

ARMI AUSTRALIAN REGENERATIVE MEDICINE INSTITUTE

10 YEARS 2009–19

Tracking tumor metastasis using multimodal imaging

Dr Jacky Goetz

Inserm

Bio

Graduated in pharmacology and cell biology from University of Strasbourg (France). Then moved to the laboratory of Ivan Robert NABI in Vancouver (University of British Columbia, Canada), where he first studied the interaction between the endoplasmic reticulum and mitochondria. He was in parallel interested in glycosylation of membrane proteins, in particular integrins, and described its importance, in concert with Caveolin-1 (Cav1), in fibronectin fibrillogenesis, focal adhesion dynamics, and cell migration (Goetz, JCB, 2008). He received his Ph.D. degree in 2007 from both University of Montreal and University of Strasbourg. He then moved to the CNIC in Madrid (Spain) in the laboratory of Miguel Angel del Pozo where he led a study on the implication of Cav1 in biomechanical remodeling of the microenvironment and showed its importance in normal tissue architecture especially during tumor progression (Goetz et al., Cell, 2011). He performed a second post-doctoral stay in the team of Julien VERMOT at the IGBMC in Strasbourg (France) where he discovered that primary cilia can detect and transduce low blood flow forces in the early vasculature of the zebrafish (Goetz et al., Cell Reports, 2014). He was recruited as a CR1 INSERM (INSERM U1109) where he is leading a group « Tumor Biomechanics » currently composed of 15 people. His lab developed intravital correlative imaging for studying tumor behavior in vivo (Karreman et al, JCS, 2016 ; TCB 2017), and aims to study the implication of mechanical forces (Follain et al., Dev Cell, 2018) and extracellular vesicles in tumor progression (Hyenne et al., JCB, 2015 ; Hyenne et al. Dev Cell, in revision). His lab is mostly focusing on the impact of forces on tumor metastasis (Goetz, Science, accepted).

EVENT DETAILS

DATE:

Tuesday, 22nd January

TIME:

1:30pm

VENUE:

G19
Ground Floor
15 Innovation Walk
Monash University
Clayton Campus

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The Australian Regenerative Medicine Institute (ARMI) acknowledges the generous support of Monash University and the Victorian State Government.