

## Montpellier Resources in Imaging (MRI)

13th of April 2018 - Genopolys

9 : 15 **Welcome : G. Conejero (Technical Director of MRI)**

9 : 30 **Patrick Lemaire** (CRBM, Montpellier)

Light Sheet Microscopy : introduction to the technics and scientific project. Title to confirm.

10 : 30 Image processing and analysis. **Quentin Szabo** (IGH, Team Cavalli) "Principles of chromatin compartmentalization in Drosophila".

10 : 45 **Coffee break**

11 : 00 **Pierre Mangeol** (Institut Biologie du Développement Marseille Luminy, Marseille)

STED microscopy: a review and application to decipher the organization of polarity proteins in mammalian epithelial cells.

12 : 00 Image processing and analysis (IPA-2). **Nour Fattouh** (CRBM, Team Landmann). Operating an ImageJ Macro to quantify bacterial titer and organelle surface/number.

12 : 15 **Lunch time : Buffet (exclusively on registration)**

13 : 30 **Mathieu Coppey** (Institut Curie, Paris)

Optogenetics: subcellular control of protein activities with light.

14 : 30 Image processing and analysis (IPA-3)

14 : 45 Flow Cytometry:

**Mar Naranjo-Gomez** (IGMM, Montpellier). Title to confirm.

**Julie Pannequin** (IGF, Montpellier). Characterization of cancer stem cells in colorectal cancer and their involvement in tumor recurrence.

15 : 45 **Coffee Break**

16 : 00 Image processing and analysis (IPA-4). **Justine MAURIN** (CRBM, Team Blangy) Measurement of osteoclast features by automated image analysis.

16 : 15 **Alexandre Martinière** (Supagro Montpellier).

spt PALM : Diffusion and clustering of GTPase mediate osmotic signalling in plant.

17 : 15 Image processing and analysis (IPA-5)

17 : 30 **End of the day**

The image analysis sessions (IA) will be short talks illustrating the different tools and analysis methods developed or adapted by MRI for users.