

### Scope of the meeting

This informal symposium was originally designed to be internal to IBS, but we thought it would be a good idea to extend it to the other Grenoble laboratories. It is intended to gather people using standard or advanced fluorescence-based techniques and to better know who does what in the Grenoble community, so as to promote exchanges and potential collaborations.

### List of speakers

10:15-10:40 Virgile Adam (IBS): Super-resolution imaging and fluorescent proteins engineering

10:40-11:05 Cécile Morlot (IBS): Pioneering the use of PALM in *Streptococcus pneumoniae*: development of functional tools and nanostructure of the bacterial division leader FtsZ

11:05-11:30 Meike Stetler (IBS): Fluorescence-based techniques for the study of DNA repair mechanisms

11:30-11:55 Ramesh Pillai (EMBL): Fluorescence studies of a small RNA biogenesis machinery

11:55-12:20 Alain Buisson (GIN): About the use of fluorescent tools to monitor neuron function under physiological and pathological conditions: the example of Alzheimer disease

12:30 -14:00 Lunch (only provided to speakers)

14:00-14:25 Philippe Huber/David Liebl (iRTSV) : The help of fluorescence microscopy to decipher the action mode of bacterial virulence factors

14:25-14:50 Antoine Delon (LiPhy): Fluorescence fluctuation microscopy or how to measure concentration and mobility of molecules for cellular biology

14:50-15:15 Alexei Grichine (IAB): Tools for fluorescence microscopy and spectroscopy in the institute Albert Bonniot

15:15-15:40 Olivier Destaings (IAB): Interest of optogenetics for investigation of cell invasion

15:40-16:10: Coffee break

16:10-16:35 Céline Lafaye (IBS): Structural study of a fluorescent flavoprotein able to generate a reactive oxygen species

16:35-17:00 Jean-Philippe Kleman (IBS): The IBS cellular imaging platform: visualization and analysis of live cells

17:00-17:25 Dimitrios Skoufias (IBS): Use of fluorescent proteins to study the chromosome passenger protein complex in cells

17:30: Conclusion –discussion–organization of further meetings ?