



BACTO-Gre 2017



Structural and cellular bacteriology in Grenoble

Maison Minatéc, Salle Palladium 2, 3 Parvis Louis Néel

March 30th 2017, 8:30am

8:30 Welcome coffee

9:00 Alice Berry (BIG, CEA) cAMP and Vfr control Exolysin expression and cytotoxicity of PA7-like *Pseudomonas aeruginosa*

9:25 Pierre Mahe (BioMerieux, Grenoble) Predicting bacterial resistance phenotypes from whole-genome sequences using machine-learning approaches

9:50 Andrea Dessen (IBS) Molecular architecture of a bacterial cell wall elongation complex

10:15 Yvan Caspar (CHU Grenoble) Novel synthetic bis-indolic and bis-pyrrolic derivatives with antibacterial activity

10:40 Break/Discussions

11:00 Annabelle Varot (CERMAV, UGA) Bacterial lectins: targets for developing new anti-infectious

11:25 Ivan Junier (TIMC, UGA) Data analysis and physical modeling of chromosome structuring in *P. aeruginosa*

11:50 Pierre Marcoux (DTBS, CEA) Optical methods for rapid diagnosis in microbiology

12:20 Lunch

13:30 Erwin Sentausa (BIG, CEA) Bioinformatics input to reveal *P. aeruginosa* virulence

13:55 Cécile Morlot (IBS) A ring-shaped conduit connects the mother cell and forespore during sporulation in *B. subtilis*

14:20 Oriane Moyne (TIMC, UGA) A metabolomics approach to study within-host adaptation of *P. aeruginosa* during Cystic Fibrosis chronic infections

14:45 Marko Nedeljkovic (IBS) Assembly of an unconventional macroglobulin complex from *P. aeruginosa*

15:10 Break/Discussions

15:30 Matt Jessop/Meghane Baulard (IBS) Observation of a macromolecular complex inside the *E. coli* cell by super-resolution fluorescence and electron microscopy - first results

15:55 Emeline Reboud (BIG, CEA) *P. aeruginosa* Exolysin targets adherens cell junctions

16:20 Philippe Calvez (IBS) Membrane Heterogeneity of *Streptococcus pneumoniae*

16:45 Bernard Chelli (LiPhy, UGA) Quantitative study of the effects of low DnaA concentrations in *E. coli*, using the *uhp* pathway as an inducible expression system
