

QBIO SYMPOSIUM

# Quantitative Cell Biology of Bacteria

FRIDAY, JANUARY 18, 2019

Institut Pasteur, Paris, Amphitheatre Duclaux

The symposium will focus on bacterial cell biology studied at the sub-cellular and single-cell levels, with an emphasis on the dynamics of cellular organization, regulation and signalling.

## PROGRAM

- 9.00-9.15 am *Welcome*
- 9.15-9.45 am *Tam Mignot*: Linking single cell to multicellular behaviors: a multi-scale approach in *Myxococcus xanthus*
- 9.45-10.15 am *Rut Carballido-López*: Ultrastructure and dynamics of actin-like MreB assemblies in *Bacillus Subtilis*
- 10.15-10.45 am *Nicolas Desprat*: Physical constraints on microbial communities
- 10.45-11.15 am *Coffee Break*
- 11.15-11.45 am *Teuta Pilizota*: Regulating a passive response to a sudden decrease in external osmolarity by mechanosensitive channel assembly
- 11.45-12.15 am *Guy Tran van Nhieu*: A role for the DnaK / Hsp70 chaperone in protein unipolar localization
- 12.15-12.45 am *Seamus Holden*: Using advanced fluorescence microscopy to reveal mechanistic principles of bacterial cell division
- 12.45 am-2.15 pm *Lunch and poster session*
- 2.15-3.15 pm *Keynote Yves Brun*: Mechanism and consequences of bacterial-surface interactions
- 3.15-3.45 pm *Marc Erhardt*: Regulation, self-assembly and protein export mechanisms of a bacterial nanomachine
- 3.45-4.15 pm *Javier López-Garrido*: Metabolic differentiation and intercellular nurturing during endospore formation
- 4.15-4.45 am *Coffee Break*
- 4.45-5.15 pm *Giulia Manina*: Preexisting variation in DNA damage predicts the fate of mycobacterial subpopulations upon drug treatment
- 5.15-5.45 pm *Daniel Lopez*: Disassembly of functional membrane microdomains inhibits antibiotic resistance in MRSA

<https://tinyurl.com/ybc2d9tf>

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