

Mini-Symposium: Transformative Measurement Methods and Experimental Approaches for Bacterial Biofilm

Day 1: 29 August 2017 (**Location: OIST Room C209**)

9:00-9:30 Opening remarks

Session I Chair: **Lynette Cegelski**, Stanford University

9:30-10:30 **Fitnat Yildiz**, University of California - Santa Cruz, USA

Title: Mechanism of biofilm formation

10:30-10:40 Coffee Break

10:40- 11:40 **Jean-Marc Ghigo**, Institut Pasteur, France

Title: Identification of biofilm-specific functions: Grail or hoax?

11:40- 12:10 **Riccardo Funari**, OIST, Japan

Title: LSPR-based biosensor for bacterial biofilm analysis

12:10-14:30 Lunch (Closed) + Campus tour

Session II Chair: **Amy Shen**, OIST (Location: C210, next door to C209)

14:30-15:30 **Lynette Cegelski**, Stanford University, USA

Title: Structure, Function, and Inhibition of E. coli Amyloid-integrated Biofilms

15:30-16:30 **Gerry Fuller**, Stanford University, USA

Title: Quantifying the strength of adhesion of E. Coli onto bladder cells

16:30-16:45 Coffee Break

16:45-17:15 **Tom Bourguignon**, OIST, Japan

Title: Evolution of bacterial communities associated with termites

18:00-20:00 Dinner (Closed) at Restaurant floor (Level B, Center Bldg.)

Day 2: 30 August 2017 (**Location: OIST, C209**)

Session I Chair: **Jean-Marc Ghigo**, Institut Pasteur

9:00-10:00 **Regine Hengge**, Humboldt University of Berlin, Germany

Title: Spatial organization of transcriptional control and c-di-GMP signaling in *E. coli* macrocolony biofilms

10:00-11:00 **Andrew Utada**, University of Tsukuba, Japan

Title: Investigating bacterial social interactions through spatio-temporal imaging and analysis

11:00-11:15 Coffee break

11:15-11:45 **Bill Soederstroem**, OIST, Japan

Title: Using advanced microscopy to decipher the bacterial cell division machinery

11:45—13:15 Lunch (Closed)

Session II Chair: **Fitnat Yildiz**, University of California - Santa Cruz

13:15-14:15 **Mark Schembri**, The University of Queensland, Australia

Title: Unraveling the contribution of different cell-surface factors to uropathogenic *Escherichia coli* biofilm formation

14:15-15:15 **Liang Yang**, Nanyang Technological University, Singapore

Title: Chemical biology approaches for biofilm eradication

15:30: 18:30 Excursion

19:00-21:00 Dinner (Closed) at Restaurant floor (Level B, Center Bldg.)



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Day 3: 31 August 2017 (**Location: OIST, C209**)

Session I Chair: **Gerry Fuller**, Stanford

9:15-10:15 **Megan Yi-Ping Ho**, The Chinese University of Hong Kong, Hong Kong

Title: Early diagnosis of mycobacterial infection via a new biomarker: the activity of essential mycobacterial enzymes

10:15-10:45 **Nikhil Bhalla**, OIST, Japan

Title: Inexpensive and fast pathogenic bacteria screening using electronic biosensors

10:45-11:00 Coffee break

11:00 12:00 **Cait Macphee**, University of Edinburgh, UK

Title: How Bacillus subtilis structures its local environment

12:00-13:30 Lunch (Closed)

Session II Chair: **Nikhil Bhalla**, OIST, Japan

13:30-14:30 **William M. Durham**, University of Sheffield, UK

Title: How the microscale physical environment shapes the secret lives of bacteria

14:30-15:00 **Lukasz Szydlowski**, OIST, Japan

Title: Scrutinizing electrical properties of bacterial biofilms

15:00-15:15 Coffee break

15:15-16:30 Panel Discussion

19:00—21:00 Dinner (Closed, External speakers only)