

**MEETING PROGRAM**

<b>Day</b>	<b>Time</b>	<b>Session</b>
<b>Day 1 (Sun)</b>	12:00- 13:30	<b>Registration</b>
	13:30 – 15:30	<b>Session 1: New targets</b>
Inv. talk 1:	13:30	<b>Sloan Siegrist (US)</b> “What gets into TB?”
Inv. talk 2:	14:00	<b>Digby Warner (SA)</b> “Taking shape: morphological phenoprinting for new tuberculosis drug discovery”
Inv. talk 3:	14:30	<b>Georgia Isom (UK)</b> “Phospholipid Transport To The Bacterial Outer Membrane Through An Envelope-Spanning Bridge”
Inv. talk 4:	15:00	<b>Bavesh Kana (SA)</b> “Mycobacterial peptidoglycan remodeling: Implications for cell division, tuberculosis diagnosis and host pathogen interactions”
	15:30- 16:30	<b>Coffee Break</b>
	16:30 – 18:30	<b>Session 2: Drugs 4 bugs</b>
Inv. talk 5:	16:30	<b>Christoph Dehio (CH)</b> “E. coli - adaptations to life in the urogenital tract”
Inv. talk 6:	17:00	<b>Vin Singh (SA)</b> “In Pursuit of a Novel TB Drug: Mechanism of Action Studies”
Inv. talk 7:	17:30	<b>Man-Wah Tan (US)</b> “Identification and development of novel classes of antibiotics to combat AMR”
Short talk 1:	18:00	<b>Glenn Dale (CH)</b> “Early bactericidal activity of the novel alipibectir-ethionamid (AlpE) combination for TB treatment”
Short talk 2:	18:15	<b>Megan Keller (US)</b> “Unveiling a Link Between Central Metabolism and Antibiotic Tolerance”
	18:30	<b>Welcome reception and dinner</b>
<b>Day 2 (Mon)</b>	09:00 – 10:30	<b>Session 3: Walls</b>
Inv. talk 8:	09:00	<b>Mariana Pinho (PT)</b> <b>The EMBO Keynote Lecture</b> “Chromosome segregation dynamics during the cell cycle of <i>Staphylococcus aureus</i> ”
Inv. talk 9:	09:30	<b>Simon Foster (UK)</b> “ <i>Staphylococcus aureus</i> Cell Division: In Sickness and in Health”
Short talk 3:	10:00	<b>Kate Hummels (US)</b> “Regulation of cell envelope biosynthesis in <i>Pseudomonas aeruginosa</i> ”
Short talk 4:	10:15	<b>David Roper (UK)</b> “Exploring the role of FtsEX-PcsB during cell division in <i>Streptococcus pneumoniae</i> ”
	10:30- 11:15	<b>Coffee Break</b>
	11:15 – 13:00	<b>Session 4: Small Molecules</b>
Inv. talk 10:	11:15	<b>Yves Brun (CA)</b> “The role of dynamic pili in bacterial adhesion”
Inv. talk 11:	11:45	<b>Zeynep Baharoglu (FR)</b> “Epitranscriptomic adaption of <i>Vibrio cholerae</i> to stress”
Short talk 5:	12:15	<b>Marisa Klopper (SA)</b> “The effect of <i>inhA</i> promoter mutation on iron distribution in <i>Mycobacterium tuberculosis</i> ”
Short talk 6:	12:30	<b>Axel Magalon (FR)</b> “Draw me an oxidoreductase reacting with quinones”
Short talk 7:	12:45	<b>Jovelyn Unay (CH)</b> “Cytidylyltransferase specificity in diverse flagellin O-glycosylation systems”
	13:00 – 14:00	<b>Lunch</b>
	14:00 – 16:30	<b>Afternoon Break</b>
	16:30 – 18:30	<b>Session 5: Mycobacteria</b>
Inv. talk 12:	16:30	<b>Adrie Steyn (SA)</b> “Decoding energy dynamics: Bioenergetic and metabolic shifts in <i>Mycobacterium tuberculosis</i> cells exposed to anti-TB drugs”
Inv. talk 13:	17:00	<b>Luiz Carvalho (US)</b> “ <i>Mycobacterium tuberculosis</i> overcomes phosphate starvation by extensively remodelling its lipidome with phosphorus-free lipids”
Inv. talk 14:	17:30	<b>Jessica Seeliger (US)</b> “Measuring membrane diversity in mycobacteria”
Inv. talk 15:	18:00	<b>Jackson Marakalala (SA)</b> “Mycobacterial cell wall genes required to survive host immunity”
Short talk 8:	18:15	<b>Elizabeth Hart (US)</b> “Investigating mycolate outer membrane protein assembly”

Day	Time	Session
	18:30 – 19:30	Dinner
	20:30 – 22:00	Posters I and discussion
<b>Day 3 (Tue)</b>	09:00-10:30	<b>Session 6: Complex molecules</b>
Short talk 9:	09:00	Saumya Saurabh (US) "Bacterial condensates as first responders to stress"
Short talk 10:	09:15	Courtney Ellison (US) "Characterization of a unique cell division inhibitor in Acinetobacter species"
Short talk 11:	09:30	Po-Yin Chen (TW) "A Whole-Cell Platform for Discovering Synthetic Cell Adhesion Molecules in Bacteria"
Inv. talk 16:	09:45	Markus Seeger (CH) "Siderophore export and import in mycobacteria - a safari featuring special animals"
Short talk 12:	10:15	André Zapun (FR) "New assessment of teichoic acids in the cell envelope of Streptococcus pneumoniae"
	10:30-11:15	Coffee Break
	11:15 – 13:15	<b>Session 7: Membranes</b>
Inv. talk 17:	11:15	Jean-François Collet (BE) "How bacteria deal with stress"
Inv. talk 18:	11:45	Marc Bramkamp (DE) "A novel DNA-repair system specific for Corynebacterium glutamicum"
Inv. talk 19:	12:15	Wolf Zückert (US) "Lipoprotein Sorting and Secretion Pathways in Spirochetes"
Short talk 13:	12:45	Maren Ketterer (CH) "Revisiting effector translocation & secretion of the zoonotic intracellular pathogen Brucella"
Short talk 14:	13:00	Kristy Winkler (SA) "Tools for interrogating genetic interactions in mycobacteria"
	13:15 – 14:00	Lunch
	14:00-16:30	Afternoon Break
	16:30 – 18:30	<b>Session 8: Homeostasis</b>
Inv. talk 20:	16:30	Coralie Fumeaux (CH) "Leveraging AmpC overproduction to discover novel factors involved in cell envelope homeostasis"
Inv. talk 21:	17:00	Amrita Hazra (IN) "The choice of the adenine motif in vitamins and cofactors in the natural world"
Inv. talk 22:	17:30	Camille Goemans (CH) "The impact of antibiotics on human gut microbes"
Short talk 15:	18:00	Rachna Chaba (IN) "An envelope stress response regulates fatty acid metabolism via a small RNA to maintain redox homeostasis"
Short talk 16:	18:15	Magdalena Chrabaszczewska (BE) "EIIAMan - molecular switch in PTSNtr mediated control of cell cycle progression in Caulobacter crescentus"
	18:30 – 19:30	Dinner
	20:30 – 22:00	Posters II and discussion
<b>Day 4 (Wed)</b>	09:00-10:30	<b>Session 9: Switches</b>
Inv. talk 23:	09:00	Ranjana Pathania (IN) "A manganese dependent sRNA mediates regulation of Type Six Secretion System in Acinetobacter baumannii"
Inv. talk 24:	09:30	Kathi Fröhlich (DE) "Global RNA interactome capture reveals new functions for bacterial small RNAs"
Inv. talk 25:	10:00	Tâm Mignot (FR) "Mechanism(s) of prey killing in a ubiquitous soil predator"
	10:30-11:15	Coffee Break
	11:15 – 13:00	<b>Session 10: Biofilms &amp; interactions</b>
Inv. talk 26:	11:15	Kim Kline (CH) "Go with the Flow: How Fluid Flow and Quorum Sensing Shape Enterococcal Virulence in Infective Endocarditis"
Inv. talk 27:	11:45	Ian Henderson (AU) "Co-ordinating assembly of the Gram-negative cell envelope"
Short talk 17:	12:15	Mahlatse Maseeme (SA) "Complex II / succinate dehydrogenase is central to the metabolic impairment in immune cells during TB and TB-HIV co-infection"

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Short talk 18:	12:30	<b>Sanna Koskiniemi (SE)</b> "Delivered CdiA toxins create population heterogeneity through transient intoxication of siblings"
Short talk 19:	12:45	<b>Petya Krasteva (FR)</b> "C-di-GMP-dependent synthase activation and polymer modification in Bcs system for pEtN-cellulose secretion in E. coli biofilms"
	13:00 – 14:00	<b>Lunch</b>
	14:00- 16:30	<b>Afternoon Break</b>
	16:30 – 18:30	<b>Session 11: Surfaces</b>
Inv. talk 28:	16:15	<b>Tom Bernhardt (US)</b> "Fortification of the Escherichia coli division site by an aPBP-type cell wall synthase"
Inv. talk 29:	16:45	<b>Hesper Rego (US)</b> "Lessons from a dividing mycobacteria"
Inv. talk 30:	17:15	<b>Xavier de Bolle (BE)</b> "Survival and growth of the pathogen Brucella abortus relies on lipids trafficking in its membranes"
Short talk 20:	17:45	<b>Unnimaya Latha (IN)</b> "Armed to transition: RNA reserve-controlled morphogenesis in bacteria"
Short talk 21:	18:15	<b>Mandy Mason (SA)</b> "Complex cards: exploration of supracellular phenotypes of Mtb"
	18:30 – 20:30	<b>Conference Braai</b>
	20:30 – 22:00	<b>Conference Party</b>
<b>Day 5 (Thu)</b>	09:00- 10:45	<b>Session 12: DNA transactions</b>
Inv. talk 31:	09:00	<b>Ankur Dalia (US)</b> "Regulation and mechanisms of horizontal gene transfer by natural transformation"
Inv. talk 32:	09:30	<b>Reto Guler (SA)</b> "Minor groove binders and statins for pathogen / host-directed therapy against TB"
Short talk 22:	10:00	<b>Kilian Dekoninck (US)</b> "Discovery of Conservon8: A novel regulatory pathway modulating antibiotic biosynthesis and anti-phage defense in Streptomyces coelicolor"
Short talk 23:	10:15	<b>Asha Joseph (IN)</b> "Toggling the replisome: ensuring integrity of the genome across contexts."
Short talk 24:	10:30	<b>Justine Collier (CH)</b> "DNA methylation by CcrM contributes to genome maintenance in the Agrobacterium tumefaciens plant pathogen"
	10:45- 11:15	<b>Coffee Break</b>
	11:15 – 13:15	<b>Session 13: Morphogenesis</b>
Inv. talk 33:	11:15	<b>Susan Schlimpert (UK)</b> <b>EMBO Young Investigator Lecture</b> "Understanding bacterial multicellular development"
Inv. talk 34:	11:45	<b>Jie Xiao (US)</b> "Spatiotemporal coordination between cell wall synthesis, degradation, and pole morphogenesis in E. coli"
Inv. talk 35:	12:15	<b>Martin Thanbichler (DE)</b> "Establishment of complex cell shapes in bacteria"
Short talk 25:	12:45	<b>Chris Rodrigues (UK)</b> "A potential link between the spore envelope and developmental signalling during sporulation in Bacillus subtilis"
Short talk 26:	13:00	<b>Bernhard Kepplinger (PL)</b> "Roles of PknB and CslA in cell wall morphogenesis of Streptomyces"
	13:15 – 14:15	<b>Lunch</b>
	14:15- 16:30	<b>Afternoon Break</b>
	16:30 – 18:45	<b>Session 14: New Frontiers</b>
Inv. talk 36:	16:30	<b>Jeanne Salje (UK)</b> "The cell biology of obligate intracellular bacteria"
Inv. talk 37:	17:00	<b>Brandon Jutras (US)</b> "The unusual features of Borrelia burgdorferi peptidoglycan and their impacts of the biology and pathogenesis of Lyme disease"
Inv. talk 38:	17:30	<b>Geraldine Laloux (BE)</b> "Coordinating cell cycle transitions with bacterial predation"
Short talk 27:	18:00	<b>Sybille Tachon (FR)</b> "Metabolic adaptation of Lactic Acid Bacteria"
Short talk 28:	18:15	<b>Nicholas Taylor (DK)</b> "Structure and mechanism of Zorya anti-phage defense system"
Short talk 29:	18:30	<b>Maëlle Paillat (FR)</b> "Type IX secretion system : what makes type B CTD secretion signals special?"

Closure