

MEETING PROGRAM

Day	Time	Session
Day 1 (Sun)	12:30- 14:00	Registration
	14:00 – 16:00	Session 1: New targets <i>Chair: Brandon Jutras</i>
Inv. talk 1:	14:00	<i>Sloan Siegrist (US)</i> "What gets into TB?"
Inv. talk 2:	14:30	<i>Digby Warner (SA)</i> "Taking shape: morphological phenotyping for new tuberculosis drug discovery"
Inv. talk 3:	15:00	<i>Georgia Isom (UK)</i> "Phospholipid Transport To The Bacterial Outer Membrane Through An Envelope-Spanning Bridge"
Inv. talk 4:	15:30	<i>Bavesh Kana (SA)</i> "New Frontiers in the Fight Against Tuberculosis: The Biology of Mycobacteriophages"
	16:00- 16:45	Coffee Break
	16:45 – 18:45	Session 2: Drugs 4 bugs <i>Chair: Jeanne Salje</i>
Inv. talk 5:	16:45	<i>Christoph Dehio (CH)</i> "E. coli - adaptations to life in the urogenital tract"
Inv. talk 6:	17:15	<i>Vin Singh (SA)</i> "In Pursuit of a Novel TB Drug: Mechanism of Action Studies"
Inv. talk 7:	17:45	<i>Man-Wah Tan (US)</i> "Identification and development of novel classes of antibiotics to combat AMR"
Short talk 1:	18:15	<i>Michel Pieren (CH)</i> "Early bactericidal activity of the novel alipectir-ethionamid (AlpE) combination for TB treatment"
Short talk 2:	18:30	<i>Megan Keller (US)</i> "Unveiling a Link Between Central Metabolism and Antibiotic Tolerance"
	19:00	Welcome reception and dinner
Day 2 (Mon)	09:00 – 10:30	Session 3: Walls <i>Chair: Felipe Cava</i>
Inv. talk 8:	09:00	<i>Mariana Pinho (PT)</i> The EMBO Keynote Lecture "Chromosome segregation dynamics during the cell cycle of <i>Staphylococcus aureus</i> "
Inv. talk 9:	09:30	<i>Simon Foster (UK)</i> "Staphylococcus aureus Cell Division: In Sickness and in Health"
Short talk 3:	10:00	<i>Kate Hummels (US)</i> "Regulation of cell envelope biosynthesis in <i>Pseudomonas aeruginosa</i> "
Short talk 4:	10:15	<i>David Roper (UK)</i> "Exploring the role of FtsEX-PcsB during cell division in <i>Streptococcus pneumoniae</i> "
	10:30- 11:15	Coffee Break
	11:15 – 13:00	Session 4: Small Molecules <i>Chair: Régis Hallez</i>
Inv. talk 10:	11:15	<i>Yves Brun (CA)</i> "The role of dynamic pili in bacterial adhesion"
Inv. talk 11:	11:45	<i>Zeynep Baharoglu (FR)</i> "Epitranscriptomic adaptation of <i>Vibrio cholerae</i> to stress"
Short talk 5:	12:15	<i>Marisa Klopper (SA)</i> "The effect of inhA promoter mutation on iron distribution in <i>Mycobacterium tuberculosis</i> "
Short talk 6:	12:30	<i>Axel Magalon (FR)</i> "Draw me an oxidoreductase reacting with quinones"
Short talk 7:	12:45	<i>Jovelyn Unay (CH)</i> "Cytidylyltransferase specificity in diverse flagellin O-glycosylation systems"
	13:00 – 14:00	Lunch
	14:00 – 16:30	Afternoon Break
	16:30 – 18:30	Session 5: Mycobacteria <i>Chair: Wolf Zückert</i>
Inv. talk 12:	16:30	<i>Adrie Steyn (SA)</i> "Decoding energy dynamics: Bioenergetic and metabolic shifts in <i>Mycobacterium tuberculosis</i> cells exposed to anti-TB drugs"
Inv. talk 13:	17:00	<i>Luiz Carvalho (US)</i> "Mycobacterium tuberculosis overcomes phosphate starvation by extensively remodelling its lipidome with phosphorus-free lipids"
Inv. talk 14:	17:30	<i>Jessica Seeliger (US)</i> "Measuring membrane diversity in mycobacteria"
Inv. talk 15:	18:00	<i>Jackson Marakalala (SA)</i> "Mycobacterial cell wall genes required to survive host immunity"
Short talk 8:	18:15	<i>Elizabeth Hart (US)</i> "Investigating mycolate outer membrane protein assembly"
	18:30 – 19:30	Dinner

Day	Time	Session
Mon	20:00	The HFSP Network: Outreach, Insight & Opportunities – Guntram Bauer
	20:30 – 22:00	Posters I and discussion
Day 3 (Tue)	09:00-10:30	Session 6: Complex molecules Chair: Juan Hermoso
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	Maëlle Paillat (FR) "Type IX secretion system : what makes type B CTD secretion signals special?"
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	Session 7: Membranes Chair: Mariana Pinho
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	Session 8: Homeostasis Chair: Simon Foster
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) "EliAMan - 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
Day 4 (Wed)	09:00-10:30	Session 9: Switches Chair: Christophe Grangeasse
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	Session 10: Biofilms & interactions Chair: Angelika Gründling
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"
Short talk 18:	12:30	Susan Schlegel (SE) "Delivered CdiA toxins create population heterogeneity through transient intoxication of siblings"
Short talk 19:	12:45	Cristina Colomer-Winter (CH) "A network of two-component systems modulates the Enterococcus faecalis adaptation to cell envelope-damaging agents"

Day	Time	Session
	13:00 – 14:00	Lunch
	14:30 – 16:30	Session 11: Surfaces <i>Chair: Georgia Isom</i>
Inv. talk 28:	14:30	Tom Bernhardt (US) "Fortification of the <i>Escherichia coli</i> division site by an aPBP-type cell wall synthase"
Inv. talk 29:	15:00	Hesper Rego (US) "Lessons from a dividing mycobacteria"
Inv. talk 30:	15:30	Xavier de Bolle (BE) "Survival and growth of the pathogen <i>Brucella abortus</i> relies on lipids trafficking in its membranes"
Short talk 20:	16:00	Unnimaya Latha (IN) "Armed to transition: RNA reserve-controlled morphogenesis in bacteria"
Short talk 21:	16:15	Mandy Mason (SA) "Complex cords: exploration of supracellular phenotypes of <i>Mtb</i> "
	16:30-18:30	Chill Session with Mock- & Cocktails and DJ Mr. Mo
	18:30 – 20:30	Conference Braai
	20:30 – 22:00	Conference Party
Day 5 (Thu)	09:00-10:45	Session 12: DNA transactions <i>Chair: Christian Lesterlin</i>
Inv. talk 31:	09:00	Ankur Dalia (US) "Regulation and mechanisms of horizontal gene transfer by natural transformation"
Inv. talk 32:	09:30	Reto Guler (SA) "Minor groove binders and statins for pathogen / host-directed therapy against TB"
Short talk 22:	10:00	Kilian Dekoninck (US) "Discovery of Conservon8: A novel regulatory pathway modulating antibiotic biosynthesis and anti-phage defense in <i>Streptomyces coelicolor</i> "
Short talk 23:	10:15	Asha Joseph (IN) "Toggling the replisome: ensuring integrity of the genome across contexts."
Short talk 24:	10:30	Justine Collier (CH) "DNA methylation by CcrM contributes to genome maintenance in the <i>Agrobacterium tumefaciens</i> plant pathogen"
	10:45-11:15	Coffee Break
	11:15 – 13:15	Session 13: Morphogenesis <i>Chair: Coralie Fumeaux</i>
Inv. talk 33:	11:15	Susan Schlimpert (UK) <i>EMBO Young Investigator Lecture</i> "Understanding bacterial multicellular development"
Inv. talk 34:	11:45	Jie Xiao (US) "Spatiotemporal coordination between cell wall synthesis, degradation, and pole morphogenesis in <i>E. coli</i> "
Inv. talk 35:	12:15	Martin Thanbichler (DE) "Establishment of complex cell shapes in bacteria"
Short talk 25:	12:45	Chris Rodrigues (UK) "A potential link between the spore envelope and developmental signalling during sporulation in <i>Bacillus subtilis</i> "
Short talk 26:	13:00	Bernhard Kepplinger (PL) "Roles of PknB and CslA in cell wall morphogenesis of <i>Streptomyces</i> "
	13:15 – 14:15	Lunch
	14:15-16:30	Afternoon Break
	16:30 – 18:45	Session 14: New Frontiers <i>Chair: Marc Bramkamp</i>
Inv. talk 36:	16:30	Jeanne Salje (UK) "The cell biology of obligate intracellular bacteria"
Inv. talk 37:	17:00	Brandon Jutras (US) "Exploiting the unusual properties of <i>Borrelia burgdorferi</i> peptidoglycan to diagnose, treat, and understand Lyme disease"
Inv. talk 38:	17:30	Angelika Gründling (UK) "Filling in the gaps – How <i>Bacillus subtilis</i> synthesizes the essential lipid phosphatidylglycerol"
Short talk 27:	18:00	Sybille Tachon (FR) "Metabolic adaptation of Lactic Acid Bacteria"
Short talk 28:	18:15	Nicholas Taylor (DK) "Structure and mechanism of Zorya anti-phage defense system"
	18:30	Closure
	19:00	Pizza, Beer & Beach