

The new bacteriology

DAY 1 – 28 January 2016				DAY 2 – 29 January 2016			
SESSION 1: Bacterial Evolution and Diversity Chair: Stephen Busby		SESSION 2: The Social Life of Bacteria Chair: Richard Moxon		SESSION 3: Advances in Bacterial Cell Biology Chair Judith Armitage		SESSION 4: Infection and Drug Resistance Pascale Cossart	
09.00	Welcome by the Royal Society and Stephen Busby						
09.05	Andrew Knoll Bacteria: the first 2 billion years	13.20	Regine Hengge Mechanisms of local signalling by the second messenger c-di-GMP in <i>Escherichia coli</i>	09.00	Venki Ramakrishnan Structural insights into ribosome-dependent activation of stringent control	13.20	Stewart Cole Inhibiting intracellular growth of <i>Mycobacterium tuberculosis</i>
09.30	Jeff Errington Novel actinomycete-encoded inhibitors of Gram positive cell wall processes	13.50	Marek Basler Using images to understand structure, function and dynamics of Type VI secretion systems	09.30	Judith Armitage In vivo remodelling of the bacterial flagellar motor and related protein complexes	13.50	Jose Penadés Phage-inducible chromosomal islands
10.00	Discussion	14.20	Discussion	10.00	Discussion	14.20	Discussion
10.25	Coffee and Posters	14.45	Tea and Posters	10.25	Coffee and Posters	14.45	Tea and Posters
10.55	Julian Parkhill What sequence tells us about bacteria	15.35	Philippe Sansonetti From homeostasis to pathology: decrypting microbe-host symbiotic signals in the intestinal crypt	10.55	Angelika Grundling c-di-AMP targets both arms of osmoprotection – potassium and osmolyte uptake systems	15.35	Jorg Vogel RNA-seq approaches to unveil noncoding RNA functions in bacterial pathogens
11.25	Emmanuelle Charpentier The transformative genome engineering technology CRISPR-Cas9: lessons learned from bacteria	16.05	Benoit Chassaing Microbiota-Genetic-Environment interplay in intestinal inflammation	11.25	Kenn Gerdes Remarkable functional convergence: Type I and Type II toxin-antitoxins induce persistence by a 'magic spot' dependent mechanism	16.05	Sharon Peacock Translating microbial sequencing into diagnostic and public health microbiology: are we nearly there yet?
11.55	Discussion	16.35	Discussion	11.55	Discussion	16.35	Discussion
12.20	LUNCH	17.00	CLOSE	12.20	LUNCH	17.00	CLOSE