

PROGRAMME

Monday 16th April		
13.00 - 16.00	Registration and refreshments	Windsor Foyer
Keynote Session		Windsor Auditorium
16.00 - 16.15	Welcome and introduction Simon CUTTING - Royal Holloway, University of London	
16.15 - 17.15	KEYNOTE LECTURE Rich LOSICK - Harvard University, USA. "Stochasticity in spore formation"	
17.15 - 17.55	Break with refreshments	Windsor Foyer
Session 1 Chair: Graham Christie		Windsor Auditorium
18.00 - 18.30	Munehiro ASALLY – University of Warwick, UK. "Adaptive phenotypic plasticity during <i>B. subtilis</i> sporulation"	
18.30 - 18.50	Fernando H. RAMÍREZ-GUADIANA - Harvard Medical School, USA. "A two-step transport pathway allows the mother cell to nurture the developing spore in <i>Bacillus subtilis</i> "	
18.50 - 19.10	Emilie GAUVRY – Université de Brest, France. "Differentiation of vegetative cells into spores: a kinetic model which assesses the temporal heterogeneity of bacterial sporulation in a planktonic culture of <i>Bacillus subtilis</i> "	
19.10 - 19.30	 Alper MUTLU – Max Planck Institute for Terrestrial Microbiology, Marburg, Germany. "Phenotypic memory links different stages of the <i>B. subtilis</i> life cycle"	
19.30 - 22.00	Welcome Reception and Buffet Dinner	Windsor Building Terrace and Founder's Dining Hall
Tuesday 17th April		
Session 2 Chair: Daniel Paredes-Sabja		Windsor Auditorium
09.00 - 09.30	Isabelle MARTIN-VERSTRAETE – Institut Pasteur, France. "The alternative sigma factor σ^B is involved in the management of stress and in the control of sporulation in <i>Clostridium difficile</i> "	
09.30 - 09.50	Shonna McBRIDE – Emory University School of Medicine, USA. "Regulation of toxin production and sporulation in <i>Clostridium difficile</i> by the multifunctional protein, RstA"	
09.50 - 10.10	Daniela HEEG – Chain Biotechnology Ltd., UK. " <i>Clostridium</i> assisted drug delivery and spore manufacture for microbiome therapy"	
10.10 - 10.30	 Dmitry MALYSHEV – Cardiff University, UK. "Characterisation of <i>Clostridium difficile</i> spore surface morphology"	
10.30 - 11.10	Break with refreshments	Windsor Foyer
Session 3 Chair: Munehiro Asally		Windsor Auditorium
11.10 - 11.40	Kumaran RAMAMURTHI – National Cancer Institute, NIH, USA. "Quality control pathways that govern progression through sporulation"	
11.40 - 12.00	Robyn EIJLANDER – NIZO, The Netherlands. "Spores in dairy – new insights in detection, enumeration and risk assessment"	
12.00 - 12.20	Keith DAVIES – University of Hertfordshire, UK. "Exploring host specificity through endospore attachment of <i>Pasteuria penetrans</i> to nematodes"	
12.20 - 12.30	 Felix FUCHS – German Aerospace Center, Germany. "Germination in simulated microgravity – from spore to biofilm"	
12.30 - 12.40	 Bhagyashree SWARGE – University of Amsterdam, The Netherlands. "Transcriptome and proteome changeovers reveal the bacterial strategy of spore awakening"	
12.40 - 14.30	Lunch & Poster Session 1	Windsor Foyer

Session 4		Windsor Auditorium
Chair: Patrick Eichenberger		
14.30 - 15.00	Jonathan DWORKIN – Columbia University, USA. “Metabolic dormancy in spores”	
15.00 - 15.20	Taylor UPDEGROVE – National Cancer Institute, NIH, USA. “Vaccine displayed on synthetic bacterial spores enhances protection against <i>Staphylococcus aureus</i> infection in a mouse bacteremia model”	
15.20 - 15.40	Tanushree GUPTA – Hopkirk Research Institute, New Zealand. “Isolation and identification of spore forming bacteria from raw milk in Manawatu dairy farms of New Zealand”	
15.40 - 16.00	Anthony J. WILKINSON – University of York, UK. “Cell fate determination in sporulation - structure and regulation of the key protein phosphatase <i>SpoII^E</i> ”	
16.00 - 16.40	Break with refreshments	Windsor Foyer
Session 5		Windsor Auditorium
Chair: Ezio Ricca		
16.40 - 17.40	KEYNOTE LECTURE Aimee SHEN – Tufts University, USA. “Waking the dead: <i>Clostridium difficile</i> spore germination”	
17.40 - 18.10	Break with refreshments	Windsor Foyer
18.10 - 18.30	Marina ASPHOLM – Norwegian University of Life Sciences, Norway. “Dissecting the cooperative interaction between the GerA and Ynd germination receptors in <i>B. licheniformis</i> spore germination”	
18.30 - 18.50	Véronique BROUSSOLLE – INRA UMR SQPOV, France. “Hot spores: how temperature impacts sporulation, spore structure and properties of the anaerobe thermophile <i>Moorella thermoacetica</i> ”	
18.50 - 19.10	Katia ROUZEAU – Nestec S.A., Switzerland. “Emetic <i>Bacillus cereus</i> in the perspective of food industry”	
19.10 - 19.30	Laura SIERRA-ZAPATA – Universidad EAFIT, Colombia. “Molecular and metabolomic studies to elucidate an inducible antimicrobial activity of <i>Bacillus sp.</i> strains”	
19.30	BBQ and Social Evening	South Quad/ Crosslands Bar
Wednesday 18th April		
Session 6		Windsor Auditorium
Chair: Isabelle Martin-Verstraete		
09.00 - 09.30	Mike PECK – Quadram Institute, UK. “ <i>Clostridium botulinum</i> spore germination”	
09.30 - 09.50	Abigail KELLY – Newcastle University, UK. “Peptidoglycan degradation during <i>C. difficile</i> spore formation”	
09.50 - 10.10	Daniel PAREDES-SABJA – Universidad Andrés Bello, Chile. “Novel mechanism of persistence of <i>Clostridium difficile</i> spores in intestinal epithelial cells and its implications in recurrence of the disease”	
10.10 - 10.30	William FERREIRA – Royal Holloway, University of London, UK. “The spore coat protein CotE facilitates host colonisation by <i>Clostridium difficile</i> ”	
10.30 - 11.10	Break with refreshments	Windsor Foyer
Session 7		Windsor Auditorium
Chair: Preben Nielsen		
11.10 - 11.40	Trevor LAWLEY – Sanger Institute, UK. “Sporulation in the human intestinal microbiota”	
11.40 - 12.00	 Carolina FELICIANO – Institut Pasteur & Université Paris, France. “CotL, a <i>Clostridium difficile</i> spore protein required for the assembly of the surface layers”	
12.00 - 12.20	Ashton HARPER – Protexin Healthcare, UK. “Probiotics in antibiotic associated diarrhoea and <i>Clostridium difficile</i> associated diarrhoea: an update of the evidence”	
12.20 - 12.40	Yifan ZHANG – ETH Zurich, Switzerland. “Superdormant spores under isostatic high pressure treatment: influencing factors and potential solutions”	
12.40 - 14.40	Lunch & Poster session 2	Windsor Foyer

Session 8		Windsor Auditorium
Chair: Véronique Broussolle		
14.40 - 15.10	Amy HITCHCOCK CAMP – Mount Holyoke College, USA. “Metabolic shutdown during <i>Bacillus subtilis</i> sporulation”	
15.10 - 15.30	Zuzana CHROMIKOVA – Slovak Academy of Sciences, Slovak Rep. “Isolation and characterization of chromate resistant bacterial spore formers from diverse environmental samples.”	
15.30 - 15.50	Stanley BRUL – University of Amsterdam, The Netherlands. “Omics’, germinosome visualization and antimicrobial resistance of bacterial spores.”	
15.50 - 16.10	Jared HEFFRON – Novozymes, Denmark. “Using and augmenting <i>Bacillus</i> spore germination in bioagriculture”	
16.10 - 16.20	Tatiana Z. CUELLAR-GAVIRIA – Universidad EAFIT, Colombia. “Phenotypic variation during the growth of different strains of <i>Bacillus subtilis</i> ”	
16.20 - 16.50	Break with refreshments	Windsor Foyer
Session 9		Windsor Auditorium
Chair: Robyn Eijlander		
16.50 - 17.10	Rivka ISAACSON – King’s College London, UK. “Structural and functional insights into <i>B. subtilis</i> sigma factor inhibitor, CsfB”	
17.10 - 17.30	 Katrien BEGYN – Ghent University, Belgium. “Directed evolution by UV-C-treatment of <i>Bacillus cereus</i> endospores”	
17.30 - 17.50	Graham CHRISTIE – University of Cambridge, UK. “Ellipsoid localisation microscopy as a tool for measuring structural changes in spores”	
17.50 - 18.10	Bentley SHUSTER – New York University, USA. “An analysis of spore surface properties in <i>Bacillus subtilis</i> ”	
18.10-18.30	Julia BARTELS – Technische Universität Dresden, Germany. “The <i>Bacillus subtilis</i> endospore crust: protein interaction network, architecture and glycosylation state of a potential glycoprotein layer”	
18.30 - 18.40	Closing comments. Prize giving by Novozymes (Preben Nielsen and Jared Heffron)	
18.40 - 22.00	Farewell drinks and 3-course banquet	Picture Gallery and Founder’s Dining Hall