## **CLOSTRIDIUM XII PROGRAMME**

Sunday, 9<sup>th</sup> September 2012

19.00-20.00 Registration Wembley Suite, Hilton Hotel

**Welcome Reception** 20:00-24.00 Wembley Suite, Hilton Hotel

Monday, 10<sup>th</sup> September 2012

Session I: PEGIII ATION Adams Room, Nottingham Conference Centre

Session I: REC	BULATION	Adams Room, Nottingham Conference Centre
Chairperson:	Nigel P Minton	
09.00 - 09.05	Nigel P Minton - The University Welcome and Introduction	of Nottingham, UK
09.05 - 09.40	Hubert Bahl - University of Rost "Global regulators in <i>Clostridiun</i>	ock, Germany (Invited Speaker) n acetobutylicum "
09.40 - 10.05	Klaus Winzer - The University o "Quorum Sensing regulates spo acetobutylicum"	f Nottingham, UK rulation in Clostridium
10.05 - 10.30	Peter Dürre - University of Ulm, "Master and Commander: Spo0 Shift to Solventogenesis in <i>Clos</i>	A vs. SolB, a Small Regulatory RNA, in Controlling the
10.30 - 10.45	Kindly sponsored by BBSRC	Rostock, Germany (Young Presenter) e Strict Anaerobe Clostridium acetobutylicum"
10.45 - 11.15	Coffee break	
Chairperson:	Terry Papoutsakis	
11.15 - 11.50	Weihong Jiang - Shanghai Instit	utes for Biological Sciences, China (Invited Speaker)

Kindly sponsored by SfAM

"CcpA, a Pleiotropic Key Regulator in Butanol-producing Clostridium acetobutylicum"

Ralf-Jörg Fischer - University of Rostock, Germany 11.50 - 12.15

"Role of Granulose for Formation and SASPs for Germination of Endospores of

Clostridium acetobutylicum"

Jeffrey Blanchard - The University of Massachusetts, USA 12.15 - 12.40

"Population Level Analysis of Mutations Underlying Improvements in Biofuel

Production by Clostridium phytofermentans"

Steven Brown - Oak Ridge National Laboratory, USA 12.40 - 13.00

"RNA-Seq and DNA Microarray Analyses of Clostridium thermocellum Biomass

Fermentation Transcriptomes"

13.00 - 14.30 Lunch The Old Library, NCC

Session II: BU	TANOL ENGINEERING	Adams Room, NCC
Chairperson:	George Bennett	
14.30 - 15.05	Isabelle Meynial-Salles - INSA, Toulouse, Franc Kindly sponsored by SGM "Metabolic Engineering of <i>Clostridium acetobut</i> y Production of Biofuels"	, ,
15.05 - 15.30	Edward Green - Green Biologics Ltd, UK "Use of Municipal Solid Waste as a Feedstock f	or the Butanol Fermentation"
15.30 - 15.55	Shang-Tian Yang - The Ohio State University, University, University of Engineering Clostridium for High-Titer and High	
15.55 - 16.20	Ye Ni - Jiangnan University, China "Continuous Butanol Fermentation from Low-Va Clostridium saccharobutylicum DSM 13864"	alue Sugar-Based Feedstocks by
16.20 - 16.35	Yi Wang - University of Illinois, USA (Young Presenter) Kindly sponsored by BBSRC "Genome-wide Transcriptomic Analysis in <i>Clostridium beijerinckii</i> 8052 using Single-Nucleotide Resolution RNA-Seq Technology"	
16. 35 - 18.00	Posters I & Coffee	Bowden Room, NCC

20.00 - 22.00 Dinner

The Old Library, NCC

Tuesday, 11<sup>th</sup> September 2012

Session III: CELLULOSE AND SUGAR UTILISATION	Adams Room, NCC
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Peter Dürre
Mike Himmel - NREL, USA (Invited Speaker) Kindly sponsored by BBSRC "Engineering the Clostridium thermocellum cellulosome"
Lee Lynd - Dartmouth College, USA "Clostridium thermocellum: Metabolic engineering and cellulose utilization"
Philippe Soucaille - INSA, France "The Weizmann process revisited for cellulosic Butanol production"
David Ramey - Green Biologics Ltd, USA "Cellulosic Butanol - A Sustainable Advanced Next Generation Biofuel"
Kousuke Yamamoto - Mie University, Japan (Young Presenter) Kindly sponsored by BBSRC "Identification of the <i>Clostridium cellulovorans</i> cellulosomal subunits on soft biomass degradation"

## 11.00 - 11.25 Coffee break

Chairperson: Philippe Soucaille

19.00 - 23.00	BBQ	The Old Chemistry Theatre, NCC
14.30 - 17.30	NETWORKING AFTERNOON	
13.30 - 14.30	Lunch	The Old Library, NCC
13.15 - 13.30	Kumaran Sivagnanam - McGill University, Cana Kindly sponsored by BBSRC "Proteomic Analysis of <i>Clostridium acetobutylicu</i>	,
12.50 - 13.15	Ana Lopez-Contreras - Food & Biobased Resea "Production of Acetone, Butanol and Ethanol fro	
12.25 - 12.50	Katherine Germane - US Army Research Labora "Arabinose is Metabolized Via a Phosphoketolas acetobutylicum"	
12.00 - 12.25	Chen Yang - SIBS, China "Pathway Reconstruction and Flux Quantification Solventogenic Clostridia"	n of Pentose Metabolism in
11.25 - 12.00	Wilfrid Mitchell - Heriot-Watt University, UK (Invi Kindly sponsored by SGM "Glucose Sensing in the Solventogenic Clostridia	. ,

Wednesday, 12<sup>th</sup> September 2012

## Session IV: PHYSIOLOGY, GENETIC TOOLS, AND MODELS Adams Room, NCC

Chairperson:	Weihong Jiang
09.00 - 09.35	Derek Lovley - University of Massachusetts, USA (Invited Speaker) "Feeding Acetogenic Clostridia Electricity to Produce Organic Commodities from Carbon Dioxide"
09.35 - 10.00	Nigel P Minton - The University of Nottingham, UK "A 'Road Map' for the Genetic Modification of Any <i>Clostridium</i> spp"
10.00 - 10.25	Terry Papoutsakis - University of Delaware, USA "Installing the Wood-Ljungdahl (WL) pathway in <i>Clostridium acetobutylicum</i> "
10.25 - 10.40	Simone Morra - University of Torino, Italy (Young Presenter) Kindly sponsored by BBSRC "Clostridia from a Pilot Plant for Enhanced Hydrogen Gas Production: Isolation, Molecular Characterization and Hydrogenase Genes Cloning for Exploitation in Biotechnology"

## 10.40 - 11.10 Coffee break

Chairperson: Pamela Contag

11.10 - 11.35	David Levin - University of Manitoba, Canada Central metabolism of the anaerobic lignocel stercorarium subsp. stercorarium DSM8532	
11.35 - 12.00	Thomas Millat - University of Rostock, German "Mathematical Modelling of the pH-induced Name Transition"	
12.00 - 12.25	Servé Kengen - Wageningen University, The "Analysis of the Transcriptional Response to Continuous Culturing of Clostridium acetobu	n-Butanol Challenges during Acidogenic
12.25 - 12.50	Sebastian Curth - Beuth University of Applied "Mathematical Modelling for Prediction of Str Analysis and Evaluation of Dynamic Experim	rain Optimization Targets: Sensitivity
12.50 - 13.05	Torbjørn Ølshøj Jensen - Aalborg University Kindly sponsored by BBSRC "Conversion of Crude Glycerol by <i>Clostridiun</i> Strain"	
13.05 - 14.30	Lunch	The Old Library, NCC
14.30 - 16.00	Posters II & Coffee	Bowden Room, NCC
Session V: Ph	HYSIOLOGY AND HIGH THROUGHPUT TOO	DLS Adams Room, NCC
Session V: Ph	HYSIOLOGY AND HIGH THROUGHPUT TOO Klaus Winzer	DLS Adams Room, NCC
		urg, Germany (Invited Speaker)
Chairperson:	Klaus Winzer  Wolfgang Buckel - Philipps-Universität Marbi Kindly sponsored by SfAM	urg, Germany (Invited Speaker) hesis". Transformation by <i>Clostridium</i>
<u>Chairperson</u> : 16.00 - 16.35	Klaus Winzer  Wolfgang Buckel - Philipps-Universität Marbi Kindly sponsored by SfAM "Radical enzymes in clostridial butyrate syntl George Bennett - Rice University, USA "Analysis of Redox Responses During TNT"	urg, Germany (Invited Speaker) hesis".  Transformation by <i>Clostridium</i> Other Clostridia"  Germany
<u>Chairperson</u> : 16.00 - 16.35 16.35 - 17.00	Klaus Winzer  Wolfgang Buckel - Philipps-Universität Marbikindly sponsored by SfAM "Radical enzymes in clostridial butyrate syntle George Bennett - Rice University, USA "Analysis of Redox Responses During TNT acetobutylicum ATCC824 and Mutants and Compared to the compar	urg, Germany (Invited Speaker) hesis".  Transformation by <i>Clostridium</i> Other Clostridia"  Germany oughput Screening System for Clostridial hology Prague, Czech Republic
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The Old Library, NCC

20.00 - 22.00 Conference Dinner