EXTENDED PROGRAMME

Monday, 23rd of April 2018

10:00 - 13:30	*Registration on site (Actons Hotel, Kinsale)*
14:00 - 14:15	*Local Organisers' Welcome address*
Session 1: Stress at the Systems and Structural Level Chair: Daniela De Biase and Conor O'Byrne	
14:15 - 15:00	The phospho-kiss of death: revealing a specific phospho-signal that serves as degradation tag **Tim Clausen** (Institute of Molecular Pathology, Austria)
15:00 - 15:20	Bacterial answers to polyproline mediated translational stress **Jürgen Lassak** (Ludwig-Maximilians-Universität, Germany)
15:20 - 15:35	Applications of the Cryo-EM revolution – Structures, drugs, and AMR **Arthur Neuberger** (University of Cambridge, UK)
15:35 - 15:50	Unravelling the regulatory role of the σ^B-dependent non-coding RNA Rli47 in *Listeria monocytogenes* **Catarina Marinho** (INRA Dijon, France and National University of Ireland, Galway, Ireland)
15:50 - 16:20	*Coffee Break*
16:20 - 16:40	The periplasmic methionine sulfoxide reductase system of *Campylobacter jejuni* **Aidan J Taylor** (University of Sheffield, UK)
16:40 - 17:00	Mineral scaffolds are actively produced by the biofilm cells to protect the inner cell mass from hostile environments **Ilana Kolodkin-Gal** (Weizmann Institute of Science, Israel)

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Session 1: Stress at the Systems and Structural Level **Chair: Daniela De Biase and Conor O'Byrne**	
17:00 - 17:15	The *Escherichia coli* cold-shock protein CspA promotes the movement of the ribosome during translation at low temperature. Anna Maria Giuliodori (University of Camerino, Italy)
17:15 - 17:45	***Flash Poster Presentations*** – Chaired by: Catarina Marinho & Duarte Guerreiro
17:45 - 19:30	*Poster Session 1 and Welcome reception*

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Session 2: Responses to Osmotic and Acid Stress
Chair: Paola Branduardi and Michael Sauer

09:00 - 09:40	Ribosome surface properties may impose limits on the nature of the cytoplasmic proteome **Bert Poolman** (University of Groningen, Netherlands)
09:40 - 10:00	The bacterial family of MscS mechanosensitive channels **Samantha Miller** (University of Aberdeen, UK)
10:00 - 10:15	Translation stress positively regulates MscL-dependent excretion of cytoplasmic proteins **Neil Dixon** (University of Manchester, UK)
10:15 - 10:30	The Characterisation of a Complex Stress Transcription Regulators that Response to N-Ethylmaleimide and Sodium Hypochlorite in *Pseudomonas aeruginosa* **Punyawee Dulyayangkul** (Chulabhorn Graduate Institute, Thailand)
10:30 - 11:00	*Coffee Break*
11:00 - 11:40	Non-canonical activation of OmpR drives acid and osmotic stress responses in single bacterial cells **Linda Kenney** (National University of Singapore & University of Illinois-Chicago, USA)
11:40 - 12:00	A systems-based approach to determine underlying mechanisms of multiple stress resistance in *Listeria monocytogenes* variants **Tjakko Abee** (Wageningen University, the Netherlands)
12:00 - 12:15	The glutaminase-dependent system confers extreme acid resistance to new species and atypical strains of *Brucella*. **Luca Freddi** (CNRS - University Montpellier, France)
12:15 - 12:30	Application of high throughput approaches to study the laboratory-based evolution of *E. coli* for enhanced growth at low pH **Mathew Milner** (University of Birmingham, UK)

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12:30 - 14:00	*Lunch*
Session 3: Stress responses in single cells **Chair: Linda Kenney and Jan Willem Sanders**	
14:00 - 14:40	Origins of bacterial growth rate changes at high external osmolarities **Teuta Pilizota** (University of Edinburgh, UK)
14:40 - 15:00	Stress sensor variants in *Bacillus subtilis* mediate distinct downstream responses **Matthew Cabeen** (Oklahoma State University, USA)
15:00 - 15:15	Radiation resistance in the cyanobacterium *Arthrospira* **Anu Yadav** (Belgian Nuclear Research Centre, Belgium)
15:15 - 15:30	*HELD FOR A LATE BREAKING ABSTRACT*
15:30 - 16:00	*Coffee Break*
16:00 - 16:40	No bacterium is an island – the role of interspecies interactions in determining antibiotic susceptibility in polymicrobial infection **Brian Conlon** (University of North Carolina, USA)
16:40 - 17:00	Persister induction in a population of AIEC *E. coli* growing within macrophages **Gaelle Demarre** (Centre for Interdisciplinary Research in Biology, France)
17:00 - 17:30	*Flash Poster Presentations* - **Chaired by: Algirdas Miksys & Vanessa Las Heras**
17:30 - 19:30	*Poster Session 2*

Wednesday, 25th of April 2018

Session 4: Stress in host-pathogen interactions
Chair: Teuta Pilizota and Peter Lund

09:00 - 09:40	Functional genomics of stress responses in the human pathogen *Candida glabrata* **Frédéric Devaux** (Université Pierre et Marie Curie, France)
09:40 - 10:00	Comparative Genomic and Transcriptomic Analyses Unveil Novel Features of Azole Resistance and Adaptation to the Human Host in *Candida glabrata* **Nuno P Mira** (iBB, Universidade de Lisboa, Portugal)
10:00 - 10:15	The small regulatory RNAs LhrC1-5 contribute to the response of *Listeria monocytogenes* to heme stress **Patrícia Teixeira dos Santos** (University of Southern Denmark, Denmark)
10:15 - 10:30	Sigma factor-mediated stress response has a major role in *Mycobacterium tuberculosis* drug tolerance and persistence **Francesca Boldrin** (University of Padova, Italy)
10:30 - 11:00	*Coffee Break*
11:00 - 11:40	Stress sensing in the intracellular pathogen *Listeria monocytogenes* **Jörgen Johansson** (Umea University, Sweden)
11:40 - 12:00	*HELD FOR A LATE BREAKING ABSTRACT*
12:00 - 12:15	Genetic Adaptive Mechanisms Mediating Response/Tolerance to Acetic Acid Stress in the Pathogen *Candida glabrata*: Role of the CgHaa1-dependent Signaling Pathway **Sara Barbosa Salazar** (iBB, Universidade de Lisboa, Portugal)

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Session 4: Stress in host-pathogen interactions **Chair: Teuta Pilizota and Peter Lund**	
12:15 - 12:30	A high fat diet influences host susceptibility to *Listeria monocytogenes* infection in a murine disease model **Vanessa Las Heras** (University College Cork, Ireland)
12:30 - 14:00	*Lunch*
Session 5: Biotechnological optimisation of microorganisms through engineering and evolution **Chair: Nuno Mira and John Morrissey**	
14:00 - 14:40	Build strains for industrial fermentation processes **Wanda Dischert** (Metabolic explorer, France)
14:40 - 15:00	Improving the stress tolerance of the oleaginous yeast *Lipomyces starkeyi* for industrial purposes **Paola Branduardi** (University of Milano – Bicocca, Italy)
15:00 - 15:15	Monitoring the unfolded protein response (UPR) in *Pichia pastoris* overproducing different recombinant proteins **Hana Raschmanová** (University of Chemistry and Technology Prague, Czech Republic)
15:15 - 15:30	Bacteria response to exposure to hydrophobic pollutants – a case of chloroaromatic solvents **Wojciech Smułek** (Poznan University of Technology, Poland)
15:30 - 16:00	*Coffee Break*
16:00 - 16:20	Paralogs in different families of molecular chaperones in the cyanobacterium *Synechococcus elongatus*: neofunctionalization of chaperone paralogs in photoautotrophic cyanobacteria **Hitoshi Nakamoto** (Saitama University, Japan)

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Session 5: Biotechnological optimisation of microorganisms through engineering and evolution

Chair: Nuno Mira and John Morrissey

16:20 - 16:35	Alleviating 3-hydroxypropionic acid production related stresses through an integrated process strategy Florence de Fouchécour (INRA, Université Paris-Saclay, France)
16:35 - 16:50	Microbial stresses during scale-up and industrial production of probiotic and starter cultures Anisha Goel (Chr. Hansen A/S, Denmark)
16:50 - 17:30	Cell-to-cell variation in the *Saccharomyces cerevisiae* transcriptional response to environmental stress Audrey Gasch (University of Wisconsin-Madison, USA)
17:30	*Meeting closing Remarks*
20:00 - 22:00	*Conference Dinner (Acton's Hotel)*