

Biofilms 8 Preliminary Programme

27 May 2018		Room: Aula
07:30	Registration	
09:00-09:15	Welcome	
	<i>Opening Ceremony</i>	
9:15-10:00	Bird's Eye Lecture: The biofilm matrix: strategies for protection and exploitation	Nicola Stanley-Wall
10:00-10:40	<i>Coffee</i>	<i>Posters/Exhibition</i>
10:40-12:00	Session 1: The biofilm matrix	
10:40-11:00	Glycosylated amyloid-like proteins in the structural extracellular polymers of aerobic granular sludge enriched with ammonium oxidizing bacteria	Yuemei Lin
11:00-11:20	Formation of functional non-amyloidogenic fibres by recombinant <i>Bacillus subtilis</i> TasA	Elliot Erskine
11:20-11:40	Insight into the RapA lectin and its use in the study of biofilm matrix formation by rhizobia	Patricia Abdian
11:40-12:00	Secreted, Large-Scale, Extracellular Membrane Systems in Microbial Biofilms	Matthew Fields
12:00-14:00	<i>Lunch</i>	<i>Posters/Exhibition</i>
14:00-15:50	Session 2: Molecular mechanisms in biofilm formation	
14:00-14:30	Invited Lecture: Molecular interactions of staphylococcal biofilm forming proteins	Joan Geoghegan
14:30-14:50	Cytochrome Bd-I is used for energy production in uropathogenic <i>E. coli</i> biofilms	Maria Hadjifrangiskou
14:50-15:10	Heat activates cyclic diguanylate production in bacteria	Joe Harrison
15:10-15:30	Sortase-assembled pili of <i>Enterococcus faecalis</i> contribute to iron-mediated extracellular electron transfer and iron-augmented biofilm	Kimberly Kline
15:30-15:50	Physical determinants of amyloid assembly in biofilm formation	Maria Andreassen
15:50-16:20	<i>Coffee</i>	<i>Posters/Exhibition</i>
16:20-18:10	Session 3: Bacterial attachment	
16:20-16:50	Invited Lecture: How do bacteria respond to their adhering state?	Henny van der Mei
16:50-17:10	Cell lysis prompts an early mechanical coupling and biofilm formation in dilute bacterial suspensions	Iztok Dogsa
17:10-17:30	Bone environment and its relationships with bacterial biofilm	Fany Reffuveille
17:30-17:50	The role of dynamic Tad pili in bacterial surface sensing	Yves Brun
17:50-18:10	A role for two-component systems in bacterial attachment and antibiotic tolerance in <i>Listeria monocytogenes</i>	Hüsnü Aslan
18:10-18:30	Title TBA	Hans-Curt Flemming
18:30-20:30	<i>Welcome Reception</i>	

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08:00	Registration	
09:00-09:40	Bird's Eye Lecture: Cooperation and competition in biofilms	Kevin Foster
9:40-10:10	<i>Coffee</i>	<i>Posters/Exhibition</i>
10:10-11:30	Session 4: Biofilm ecology	
10:10-10:30	Biofilm architecture confers individual and collective protection against phage infection	Lucia Vidakovic
10:30-10:50	Effect of fluctuating environmental conditions on the spatial self-organization and emergent properties of a synthetic microbial biofilm	Davide Ciccarese
10:50-11:10	AHL quorum sensing mediates species interactions in multispecies biofilms	Sujatha Subramoni
11:10-11:30	Biofilm thickness controls the contribution of stochastic and deterministic processes in microbial community assembly	Jane Fowler
11:30-13:30	<i>Lunch</i>	<i>Posters/Exhibition</i>
13:30-15:20	Session 5: Modelling biofilms	
13:30-14:00	Invited Lecture: Multiscale analysis of microbial cross-feeding in biofilms: from Yellowstone hot springs to chronic wounds	Ross Carlson
14:00-14:20	Developing a novel understanding of E. coli K-12 pellicle formation, morphology, and physiology	Stacey Golub
14:20-14:40	Increasing the Space-Time Yield in Lactic Acid Production by the Use of Biofilms	Laure Cuny
14:40-15:00	Estimation of mechanical and hydraulic biofilm properties from optical coherence tomography measurements	Morez Jafari
15:00-15:20	Optically patterned biofilms for synthetic microbial consortia	Xiaofan Jin
15:20-15:50	<i>Coffee</i>	<i>Posters/Exhibition</i>
15:50-17:40	Session 6: Evolution of biofilms	
15:50-16:20	Invited Lecture: Why evolution in biofilms is different, and a few remarkable consequences	Vaughn Cooper
16:20-16:40	Long-term co-adaptation of Pseudomonas aeruginosa biofilms with amoeba affects virulence traits	Diane McDougald
16:40-17:00	Evolution in changing environments: Specialist and generalist strategies during non-stable selection of the biofilm phenotype	Jonas Stenl�kke Madsen
17:00-17:20	Cheating promotes evolution of hyper-cooperators by shifting phenotypic heterogeneity in biofilms	Marivic Martin
17:20-17:40	Increased rate of mutation to antimicrobial resistance in polymicrobial biofilms	Jeremy Webb
18:30-23:00	Congress Dinner at Turbinehallen, Aarhus	

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08:30-09:00	Invited Lecture: Tuning biofilms architecture to control their functions	Romain Briandet
09:00-09:30	<i>Coffee</i>	<i>Posters/Exhibition</i>
09:30-10:50	Session 7: Biofilm control	
09:30-09:50	Characterization of anti-curli antibody based approaches to eradicate Salmonella Typhimurium biofilms	Sarah Tursi
09:50-10:10	A New Strategy for Biofilm Control Using Bioinspired Dynamic Surface Topography	Dacheng Ren
10:10-10:30	Biofilm control in cooling towers: the effect of biodispersants on freshwater biofilms developed in flow lanes	Luciana Di Gregorio
10:30-10:50	Substrate Mediated Enzyme Prodrug Therapy (SMEPT) to combat implant-associated biofilms	Signe Maria Nielsen
10:50-12:30	<i>Lunch</i>	<i>Posters/Exhibition</i>
12:30-14:00	Session 8: Novel methods for biofilm characterization	
12:30-14:00	Invited Lecture: Interrogating the interplay of metabolism and structure in bacterial communities	Lars Dietrich
13:00-13:20	Novel uses for Synchrotron Radiation in the study of Biofilms	Ben Libberton
13:20-13:40	Introducing a novel, fully-automated cultivation and screening tool for the structural and mechanical investigation of biofilms by means of optical coherence tomography	Luisa Gierl
13:40-14:00	Nanoparticle-based chemical imaging in biofilms and tissues	Michael Kühl
14:00-14:30	Awards Ceremony, Introducing Biofilms 9 & Closing Session	