





# PROGRAMME SUNDAY 27 MAY

Time	Abs.	Title	Speaker	Area	Sponsored by
07.30		Registration desk opens			
09.00 - 09.15		<b>Welcome &amp; Opening Ceremony</b> By Biofilms 8 Chair, Rikke Louise Meyer		Auditorium Aula	
9.15 - 10.00	01	<b>Bird's Eye Lecture: The biofilm matrix: strategies for protection and exploitation</b>	<b>Nicola Stanley-Wall,</b> University of Dundee, Scotland, UK	Auditorium Aula	
10.00 - 10.40		Coffee/Tea Break		Exhibition area	
10.40 - 12.00		<b>Session 1: The biofilm matrix</b> <b>Chair: Per Halkjær Nielsen &amp; co-chair: Daniel Otzen</b>		Auditorium Aula	
10.40 - 11.00	02	Glycosylated amyloid-like proteins in the structural extracellular polymers of aerobic granular sludge enriched with ammonium oxidizing bacteria	Yuemei Lin, TU Delft, The Netherlands		
11.00 - 11.20	03	Formation of functional non-amyloidogenic fibres by recombinant Bacillus subtilis TasA	Elliot Erskine, University of Dundee, Scotland, UK		
11.20 - 11.40	04	Insight into the RapA lectin and its use in the study of biofilm matrix formation by rhizobia	Patricia Abdian, Instituto De Investigación Microbiología y Zoología Agrícola, Argentina		
11.40 - 12.00	05	Secreted, Large-Scale, Extracellular Membrane Systems in Microbial Biofilms	Matthew Fields, Montana State University, USA		
12.00 - 14.00		Lunch & Poster session		Poster & Exhibition area	
14.00 - 14.30	06	<b>Invited Lecture:</b> <b>Molecular interactions of staphylococcal biofilm forming proteins</b>	<b>Joan Geoghegan,</b> Trinity College Dublin, Ireland	Auditorium Aula	
14.30 - 15.50		<b>Session 2: Molecular mechanisms in biofilm formation</b> <b>Chair: Daniel Otzen &amp; co-chair: Rikke Meyer</b>			
14.30 - 14.50	07	Cytochrome Bd-I is used for energy production in uropathogenic E. coli biofilms	Maria Hadjifrangiskou, Vanderbilt University, USA		
14.50 - 15.10	08	Heat activates cyclic diguanylate production in bacteria	Joe Harrison, University of Calgary, Canada		
15.10 - 15.30	09	Sortase-assembled pili of Enterococcus faecalis contribute to iron-mediated extracellular electron transfer and iron-augmented biofilm	Kimberly Kline, Nanyang Technological University, Singapore		
15.30 - 15.50	010	Physical determinants of amyloid assembly in biofilm formation	Maria Andreassen, Aarhus University, Denmark		
15.50 - 16.20		Coffee/Tea Break		Exhibition area	
16.20 - 16.50	011	<b>Invited Lecture: How do bacteria respond to their adhering state?</b>	<b>Henny van der Mei,</b> University of Groningen, The Netherlands	Auditorium Aula	
16.50 - 18.10		<b>Session 3: Bacterial attachment</b> <b>Chair: Rikke Meyer &amp; co-chair: Thomas Andersen</b>			
16.50 - 17.10	012	Cell lysis prompts an early mechanical coupling and biofilm formation in dilute bacterial suspensions	Iztok Dogsa, University of Ljubljana, Slovenia		
17.10 - 17.30	013	Bone environment and its relationships with bacterial biofilm	Fany Reffuveille, Université de Reims, France		
17.30 - 17.50	014	The role of dynamic Tad pili in bacterial surface sensing	Yves Brun, Indiana University, USA		
17.50 - 18.10	015	A role for two-component systems in bacterial attachment and antibiotic tolerance in Listeria monocytogenes	Hüsnü Aslan, Aarhus University, Denmark		
18.10 - 18.30	016	<b>Invited Lecture:</b> <b>Are biofilms really the dominant way of life for prokaryotes on Earth?</b>	<b>Hans-Curt Flemming,</b> University of Duisburg-Essen, Germany	Auditorium Aula	
18.30 - 20.30		Welcome Reception in the poster area (included in registration fee)		Stakladen	

# PROGRAMME MONDAY 28 MAY

Time	Abs.	Title	Speaker	Area	Sponsored by
08.00		Registration desk opens			
09.00 - 09.40	O17	Bird's Eye Lecture: Cooperation and competition in biofilms	Kevin Foster, University of Oxford, UK	Auditorium Aula	
9.40 - 10.10		Coffee/Tea Break		Exhibition area	
10.10 - 11.30		Session 4: Biofilm ecology Chair: Mette Burmølle & co-chair: Ákos Kovács		Auditorium Aula	
10.10 - 10.30	O18	Biofilm architecture confers individual and collective protection against phage infection	Lucia Vidakovic, Max Planck Institute for Terrestrial Microbiology, Germany		
10.30 - 10.50	O19	Effect of fluctuating environmental conditions on the spatial self-organization and emergent properties of a synthetic microbial biofilm	Davide Ciccarese, EAWAG, Switzerland		
10.50 - 11.10	O20	AHL quorum sensing mediates species interactions in multispecies biofilms	Sujatha Subramoni, Singapore Centre for Environmental Life Sciences Engineering, Singapore		
11.10 - 11.30	O21	Biofilm thickness controls the contribution of stochastic and deterministic processes in microbial community assembly	Jane Fowler, Technical University of Denmark, Denmark		
11.30 - 13.30		Lunch & Poster session		Poster & Exhibition area	
13.30 - 14.00	O22	Invited Lecture: Multiscale analysis of microbial cross-feeding in biofilms: from Yellowstone hot springs to chronic wounds	Ross Carlson, Montana State University, USA		
14.00 - 15.20		Session 5: Modelling biofilms Chair: Matthew Fields & co-chair: Rikke Meyer		Auditorium Aula	
14.00 - 14.20	O23	Developing a novel understanding of E. coli K-12 pellicle formation, morphology, and physiology	Stacey Golub, University of Birmingham, UK		
14.20 - 14.40	O24	Increasing the Space-Time Yield in Lactic Acid Production by the Use of Biofilms	Laure Cuny, Karlsruhe Institute of Technology, Germany		
14.40 - 15.00	O25	Estimation of mechanical and hydraulic biofilm properties from optical coherence tomography measurements	Morez Jafari, TU Delft, The Netherlands		
15.00 - 15.20	O26	Optically patterned biofilms for synthetic microbial consortia	Xiaofan Jin, USA		
15.20 - 15.50		Coffee/Tea Break		Exhibition area	
15.50 - 16.20	O27	Invited Lecture: Why evolution in biofilms is different, and a few remarkable consequences	Vaughn Cooper, University of Pittsburgh, USA		
16.20 - 17.40		Session 6: Evolution of biofilms Chair: Ákos Kovács & co-chair: Mette Burmølle		Auditorium Aula	
16.20 - 16.40	O28	Long-term co-adaptation of Pseudomonas aeruginosa biofilms with amoeba affects virulence traits	Diane McDougald, University of New South Wales, Australia		
16.40 - 17.00	O29	Evolution in changing environments: Specialist and generalist strategies during non-stable selection of the biofilm phenotype	Jonas Stenlørkke Madsen, University of Copenhagen, Denmark		
17.00 - 17.20	O30	Cheating promotes evolution of hyper-cooperators by shifting phenotypic heterogeneity in biofilms	Marivic Martin, Friedrich Schiller University Jena, Germany		
17.20 - 17.40	O31	Increased rate of mutation to antimicrobial resistance in polymicrobial biofilms	Jeremy Webb, University of Southampton, UK		
19.00 - 00.00		Congress Dinner at Turbinehallen, Aarhus (included in the registration fee, registration required)		Turbinehallen Kalkværskvej 12, 8000 Aarhus	

# PROGRAMME TUESDAY29 MAY

Time	Abs.	Title	Speaker	Area	Sponsored by
08.30 - 09.00	O32	Invited Lecture: <b>Tuning biofilms architecture to control their functions</b>	<b>Romain Briandet</b> , INRA, France	<b>Auditorium Aula</b>	
09.00 - 09.30		<b>Coffee/Tea Break</b>		<b>Exhibition area</b>	
09.30 - 10.50		<b>Session 7: Biofilm control</b> <b>Chair: Thomas Andersen &amp; co-chair: Trine Thomsen</b>		<b>Auditorium Aula</b>	
09.30 - 09.50	O33	Characterization of anti-curli antibody based approaches to eradicate Salmonella Typhimurium biofilms	Sarah Tursi, Temple University, USA		
09.50 - 10.10	O34	A New Strategy for Biofilm Control Using Bioinspired Dynamic Surface Topography	Dacheng Ren, Syracuse University, USA		
10.10 - 10.30	O35	Biofilm control in cooling towers: the effect of biodispersants on freshwater biofilms developed in flow lanes	Luciana Di Gregorio, Italian National Research Council, Italy		
10.30 - 10.50	O36	Substrate Mediated Enzyme Prodrug Therapy (SMEPT) to combat implant-associated biofilms	Signe Maria Nielsen, Aarhus University, Denmark		
10.50 - 12.30		<b>Lunch &amp; Poster session</b>		<b>Poster &amp; Exhibition area</b>	
12.30 - 13.00	O37	Invited Lecture: <b>Interrogating the interplay of metabolism and structure in bacterial communities</b>	<b>Lars Dietrich</b> , Columbia University, USA		
13.00 - 14.00		<b>Session 8: Novel methods for biofilm characterization</b> <b>Chair: Trine Thomsen &amp; co-chair: Per Halkjær Nielsen</b>		<b>Auditorium Aula</b>	
13.00 - 13.20	O38	Novel uses for Synchrotron Radiation in the study of Biofilms	Ben Libberton, MAX IV Laboratory, Sweden		
13.20 - 13.40	O39	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, Karlsruhe Institute of Technology, Germany		
13.40 - 14.00	O40	Nanoparticle-based chemical imaging in biofilms and tissues	Michael Kühl, University of Copenhagen, Denmark		
14.00 - 14.30		<b>Awards Ceremony, Introducing Biofilms 9 &amp; Closing Session</b>		<b>Auditorium Aula</b>	