

Monday, 9th May 3-4 pm**Poster session 1**

(14 Poster onsite; 7 online)

Biofilm ecology and ecotoxicology

(poster number 1 – 20)

Biofilm application

(poster number 21 – 40)

| Poster ID | Poster presenter | Title |
|-----------------------|------------------|---|
| E01 | Tom Belpaire | Permissive aggregative group formation favors coexistence in yeast |
| E02 | Patrick Fink | Grazer control of autotrophic stream biofilms – food quality matters |
| E03 | Antoine Gaillac | Biofilm formation diversity of <i>Brochothrix thermosphacta</i> a major food spoilage |
| E05 | Olga Sójka | Evaluation of biofilm formation by <i>Sphingomonas</i> and <i>Pseudomonas</i> strains on polyethylene and polyvinyl chloride pipe surfaces utilized in drinking water distribution |
| E06 | Fien Waegenaar | Biofilms play a role in the occurrence of unwanted microorganisms in drinking water distribution system |
| E07 | Polonca Stefanic | The holistic approach on studying <i>Bacillus subtilis</i> pellicle development <i>in situ</i> |
| A21 | Ibtissem Doghri | Counteracting Bacterial Motility: A Promising Strategy to Narrow <i>Listeria monocytogenes</i> Biofilm |
| A22 | Cristina Amador | Bacterial biofilms as a sustainable and stable fouling control tool for submerged surfaces |
| A23 | Irina Beer | Characterisation of anodic biofilms from microbial fuel cells based on imaging techniques |
| A24 | Lucia Cavalca | Heavy metal bio-recovery from industrial waters: are biofilm useful? |
| A25 | Lemin Chen | Polyanionic property of extracellular polymers from seawater adapted aerobic granular sludge as a potential application for sepsis treatment |
| A26 | Niklas Erdmann | Microalgae against climate change – a science outreach project |
| A27 | Amelie Kenkel | Scale-up of capillary photo-biofilm-reactors |
| A28 | Filipa Lopes | Physiological transition of <i>Chlorella vulgaris</i> from planktonic to immobilized conditions |
| <i>Online posters</i> | | |
| E04o | Ludovic Pilloux | Toward understanding of the role of iron <i>in Legionella pneumophila</i> behavior in the specific context of cooling towers |
| E08o | Binu Kundukad | Mechanistic action of weak acid drugs on biofilms |
| E09o | Riho Teras | Regulation of <i>Pseudomonas putida</i> biofilm by extracellular peptides and LapA domain vWFA |
| E10o | Sarah Zecchin | Electrotrophic organization of carbon and nitrogen in cathodic biofilms |
| E11o | Chinenye Ugwu | Anti-bacterial Susceptibility and Biofilm-Forming Ability of Foodborne Pathogens Isolated from Minimally Processed Fruits and Vegetables Obtained from Markets in Southeastern Nigeria. |
| A30o | Yael Kadosh | Anti-quorum sensing, anti-virulence, anti-biofilm and NF-κB inhibitory activities of dihydroxy-piperlongumine (PL-18), a derivative of piperlongumine from <i>Piper longum</i> |
| A31o | Eva Kovačec | Biofilms components plays important role in interspecies interactions between <i>Bacillus subtilis</i> and <i>Salmonella enterica</i> |

Tuesday, 10th May 12:40-2:00 pm**Poster session 2**

(10 onsite; 6 online)

Biofilm application continuing

(poster number 21 – 40)

Tools & Modelling

(poster number 41 – 60)

| Poster ID | Poster presenter | Title |
|---------------|--------------------------|---|
| A33 | Tinatini Tchatchiashvili | Prophages in <i>Pseudomonas aeruginosa</i> contribute to resistance to antimicrobials and phages in biofilms. |
| A34 | Maximilian Miehle | Pilot reactor for anoxic biocatalytically assisted electrode-based oxidation of substrates for continuous production of value-added chemicals |
| A35 | Signe Maria Nielsen | Targeting the biofilm matrix of oral biofilms using multiple-enzyme treatment |
| A36 | Barbara Ulcar | Fermentative granules for production of caproic acid |
| A37 | Mingsheng Jia | Modelling of one-stage thermophilic partial nitrification/anammox process in a granular biofilm reactor |
| TM41 | Giada Caniglia | Mapping the antimicrobial properties of polydopamine films and the role of surface charge via atomic force spectroscopy and infrared spectroscopy |
| TM42 | Yumi Chokyu Del Rey | Visualization of glycol-conjugates in dental biofilms by fluorescence lectin-binding analysis (FLBA) |
| TM43 | Stefan de Bruin | Sulfated glycosaminoglycan-like polymers are present in an acidophilic biofilm from a sulfidic cave |
| TM44 | Gilles Quabron | MiniaTour®: Development of a high-throughput biofilm screening platform. |
| TM45 | Haoxuan Zeng | Rubiginosin C inhibitory effect against <i>Candida albicans</i> and <i>Candida auris</i> |
| <i>Online</i> | | |
| A32o | Yichen Liao | Effect of hydrophobic membrane properties on dynamic cell adhesion of microalgae |
| A38o | Nofar Yehuda | "Cu- polysaccharide complexes: physico-chemical characterization and antimicrobial activity" |
| A39o | Patricia Abdian | Biofilms of agronomic importance: interactions among plant growth-promoting rhizobacteria display potential in the development of biofertilizers |
| A40o | Ruiyong Zhang | Inadequate dosing of THPS treatment increases MIC of pipeline steel by inducing biofilm growth |
| TM46o | Marta Pulido-Sánchez | Regulation of the <i>Pseudomonas putida</i> lifestyle switch by the stringent response |
| TM47o | Zoi Christina Kampouraki | An non-intrusive electrical impedance technique for monitoring <i>P. fluorescens</i> biofilm development on metallic surfaces |

Wednesday 11th May 1:15-2:10 pm**Poster session 3**

(8 onsite; 6 online)

Tools & Modelling

(poster number 41 – 60)

Emerging technologies

(poster number 61 – 70)

| Poster ID | Poster presenter | Title |
|---------------|--------------------------|---|
| TM49 | Emil Rosqvist | Electrochemical impedance spectroscopy probing for novel anti-bacterial agents in waste |
| TM50 | Cornelius Wittig | Influence of spatially varying shear stress on biofilm formation in a millifluidic flow chamber |
| TM51 | Kamran Ahmad Mirza | <i>Galleria mellonella</i> larvae as a model for studying implant-associated biofilms |
| TM52 | Paola San Martin Galindo | Dynamics of mono- and dual- species biofilms grown on nanostructured surfaces |
| EF61 | Annika Brehmer | Self-regulating degradation of antimicrobial functionalized hydrogels as a novel treatment against biofilm-forming microorganisms |
| EF62 | Samuel Charlton | Engineering biofilm hydraulic resistance on the microscale |
| EF64 | Ines Krohn | Microalgae microbiomes – a natural source for the prevention and treatment of diseases in aquaculture |
| EF65 | Ekaterina A. Kukushkina | Reinforced CS-based coatings and self-standing films to control biofilm formation by release of active species |
| <i>Online</i> | | |
| TM48o | Jéssica Amorim | <i>Staphylococcus aureus</i> biofilm metabolism and susceptibility to ciprofloxacin on thiol-ene polymer surfaces |
| EF63o | Syed Imdadul Hossain | Facile and rapid <i>in situ</i> synthesis of synergistic AgCl/BAC into montmorillonite against harmful bacteria |
| EF66o | Fábio Carvalho | Expression of recombinant Green Fluorescent Protein (GFP) using <i>Escherichia coli</i> biofilms: effects of culture media and surface properties |
| EF67o | Milka Hammarén | Surface proteomics of mycobacterial biofilms to develop biofilm-binding synthetic nanobodies |
| EF68o | Raphael Moll | Deep RNA seq analyses in multispecies microbial communities involved in wound and lung infections |
| EF69o | Ali Al-Ahmad | Synthetic mimics of antimicrobial peptides based on itaconic acid as antimicrobial polymeric coatings |