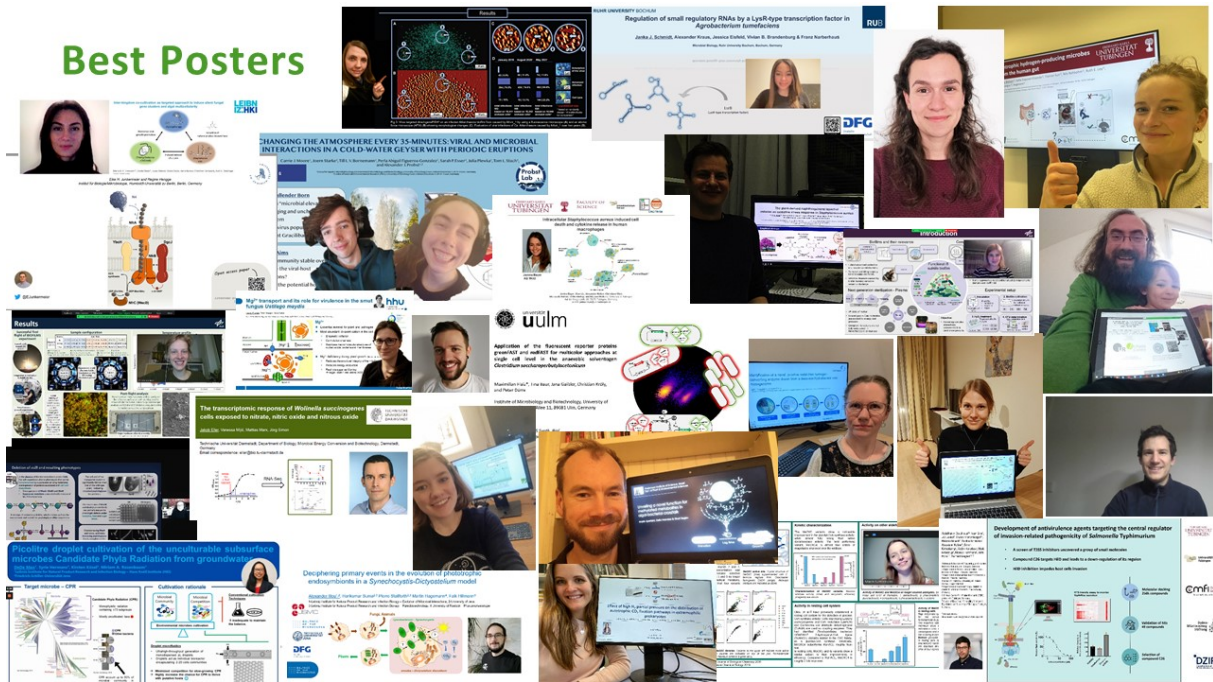


VAAM-Jahrestagung 2022

Preise für Poster und Kurzvorträge

Best Posters



Posterpreise 2022: Aus über 500 ePostern wurden 29 Preisträger:innen ausgewählt, deren Erstautor:innen mit einem mit 100 Euro dotierten Preis belohnt wurden:

Simona Huwiler, Zürich/CH, Ting Lai, Zürich/CH, Microbial Cell Biology, eP279: Learning from predatory bacteria: from OMICS to molecular mechanisms

Nicole Adam-Beyer, Kiel/DE, Mirjam Perner, Kiel/DE, Environmental Microbiology and Ecology, eP145: Identification of a novel, putative metal-free hydrogen-converting enzyme drawn from a deep-sea hydrothermal vent metagenome

Ulrike Biehain, Tübingen/DE, Sofia Esquivel-Elizondo, Tübingen/DE, Tianran Sun, Tübingen/DE, Nils Rohbohm, Tübingen/DE, Ruth. E. Ley, Tübingen/DE, Largus T. Angenent, Tübingen/DE, Environmental Microbiology and Ecology, eP193: Enrichment and isolation of syntrophic hydrogen-producing microbes from the human gut

Jacob Eller, Darmstadt/DE, Vanessa Mijić, Darmstadt/DE, Mattias Marx, Darmstadt/DE, Jörg Simon, Darmstadt/DE, Microbial Physiology and Metabolism, eP419: The transcriptomic response of Wolinella succinogenes cells exposed to nitrate, nitric oxide and nitrous oxide

Lydia Steffens, Münster/DE, Achim Mall, Bergen/NO, Simone König, Münster/DE, Thomas Maximilian Steiner, München/DE, Wolfgang Eisenreich, München/DE, Ivan A. Berg, Münster/DE, Microbial Physiology and Metabolism, eP397: H₂ partial pressure switches autotrophic pathways in an anaerobic bacterium

Maximilian Flaiz, Ulm/DE, Tina Baur, Ulm/DE, Jana Gaibler, Ulm/DE, Christian Kröly, Ulm/DE, Peter Dürre, Ulm/DE, Biotechnology, eP063: Application of the fluorescent reporter proteins greenFAST and redFAST for multicolor approaches at single cell level in the anaerobic solventogen Clostridium saccharoperbutylacetonicum

Carolin Bertelmann, Leipzig/DE, Magdalena Mock, Leipzig/DE, Andreas Schmid, Leipzig/DE, Bruno Bühler, Leipzig/DE, Biotechnology, eP083: *BM3-catalyzed testosterone hydroxylation by whole cells is boosted by co-expression of hydrophobic outer membrane pores*

Lisa Maria Schulz, Göttingen/DE, Patricia Rothe, Wernigerode/DE, Sven Halbedel, Wernigerode/DE, Angelika Gründling, London/UK, Jeanine Rismondo, London/UK, Microbial Cell Biology, eP262: *Towards characterising the putative ABC transporter EslABC in the human pathogen *Listeria monocytogenes**

Lesley Plücker, Düsseldorf/DE, Vera Göhre, Düsseldorf/DE, Peter Wegjan, Düsseldorf/DE, Fungal Biology, eP033: *Mg²⁺ transport and its role for virulence in the smut fungus *Ustilago maydis**

Victoria Turzynski, Essen/DE, Lea Griesdorn, Essen/DE, Indra Monsees, Essen/DE, Cristina Moraru, Oldenburg/DE, Alexander J. Probst, Essen/DE, Viruses of Microbes, eP443: *Persistent viral infections of uncultivated subsurface archaea are associated with drastic morphological changes of the host*

Carrie Moore, Essen/DE, Joern Starke, Essen/DE, Till L. V. Bornemann, Essen/DE, Perla Abigail Figueroa-Gonzalez, Essen/DE, Sarah P. Esser, Essen/DE, Julia Plewka, Essen/DE, Tom L. Stach, Essen/DE, Alexander J. Probst, Essen/DE, Environmental Microbiology, eP144: *Changing the atmosphere every 35-minutes: Viral and microbial interactions in a cold-water CO₂-geyser with periodic eruptions*

Man DeDe Kwun Wai, Jena/DE, Miriam Agler-Rosenbaum, Jena/DE, Syrie, Hermans, Jena/DE, Kirsten Küsel, Jena/DE, Environmental Microbiology, eP172: *Picolitre droplet cultivation of the unculturable subsurface microbes Candidate Phyla Radiation from groundwater*

Maren Nattermann, Marburg/DE, Simon Burgener, Marburg/DE, Pascal Pfister, Marburg/DE, Alexander Chou, Tampa/FL/USA, Luca Schulz, Marburg/DE, Seung Hwan Lee, Tampa/FL/USA, Nicole Paczia, Marburg/DE, Jan Zarzycki, Marburg/DE, Ramon Gonzales, Marburg/DE, Tobias J. Erb, Marburg/DE, Synthetic Biology & Systems Biology, eP491: *Employing Enzyme Engineering in Synthetic One-Carbon Metabolism*

Tamara Weiss, Kgs. Lyngby/DK, Fabian Stefan Franz Hartmann, Kgs. Lyngby/DK, Jing Shen, Kgs. Lyngby/DK, Dora Smahajcsik, Kgs. Lyngby/DK, Gerd Michael Seibold, Kgs. Lyngby/DK, Synthetic Biology & Systems Biology, eP504: *A robot-assisted phenotypic screening for high-throughput studies on pH-homeostasis in *Escherichia coli* using the pH sensitive biosensor mCherryEA*

Tobias Schilling, Groningen/NL, Jan Maarten van Dijk, Groningen/NL, Biotechnology 2, eP080: *Catalyzed Disulfide Bond Formation in *Bacillus subtilis**

Katharina Siems, Köln/DE, Daniel Wyn Müller, Saarbrücken/DE, Aisha Ahmed, Saarbrücken/DE, Rob Van Houd, Mol/BG, Rocco Mancinelli, Moffett Field/CA/USA, Kristina Brix, Saarbrücken/DE, Ralf Kautenburger, Saarbrücken/DE, Michael Laue, Berlin/DE, Frank Mücklich, Saarbrücken/DE, Ralf Möller, Köln/DE, Biotechnology 2, eP116: *Current status of the BIOFILMS ISS experiment: testing functionalized antimicrobial surfaces in space*

Janina Bayer, Tübingen/DE, Xiao Liu, Tübingen/DE, Andreas P. M. Weber, Tübingen/DE, Christina Wolz, Tübingen/DE, Infection Biology, eP203: *Intracellular *Staphylococcus aureus* induced cell death and cytokine release in human macrophages*

Abdelhakim Boudrioua, Tübingen/DE, Iwan Grin, Tübingen/DE, Joe Joiner, Tübingen/DE, Thales Kronenberger, Tübingen/DE, Melanie Nowak, Tübingen/DE, Sophie Schminke, Tübingen/DE, Simon Kalverkamp, Braunschweig/DE, Vadim Korotkov, Braunschweig/DE, Mark Brönstrup, Braunschweig/DE, Marcus Hartmann, Tübingen/DE, Antti Poso, Tübingen/DE, Samuel Wagner, Tübingen/DE, Infection Biology, eP218: *Development of antivirulence agents targeting the central regulator of *Salmonella* invasion-related pathogenicity*

Janka Schmidt, Bochum/DE, Jessica Eisfeld, Bochum/DE, Alexander Kraus, Bochum/DE, Vivian Brandenburg, Bochum/DE, Franz Narberhaus, Bochum/DE, Regulation/RNA Biology, eP346: *Regulation of small regulatory RNAs by a LysR-type transcription factor in Agrobacterium tumefaciens*

Eike H. Junkermeier, Berlin/DE, Regine Hengge, Berlin/DE, Regulation/RNA Biology, eP359: *A novel locally c-di-GMP-controlled exopolysaccharide synthase required for bacteriophage N4 infection of E. coli*

Robert Reichelt, Regensburg/DE, Linda Dengler, Regensburg/DE, Georg Schmid, Regensburg/DE, Felix Grünberger, Regensburg/DE, Rachel Rachel, Regensburg/DE, Stefan Sievert, Woods Hole/MA/USA, Harald Huber, Regensburg/DE, Dina Grohmann, Regensburg/DE, Archaea and Extremophiles, eP016: *Mucithermus cthulhu sp. nov. represents a novel genus of marine, hyperthermophilic Archaea within the family Desulfurococcaceae with tentacle-like protrusions*

Martin Sperfeld, Rehovot/IL, Delia Narváez, Rehovot/IL Segev Einat, Rehovot/IL, Microbial Interactions, eP337: *Unveiling a novel function for methylated metabolites in algal-bacterial crosstalk*

Pia Saake, Köln/DE, Mathias Brands, Köln/DE, Alga Zuccaro, Köln/DE, Microbial Interactions, eP342: *Potential roles for lipids and lipases in nutrition and immunity during symbiotic plant-microbe interactions*

Alexander Iliou, Jena/DE, Phototrophic Microorganisms, eP231: *Deciphering primary events in the evolution of phototrophic endosymbionts in a Synechocystis-Dicytostelium model*

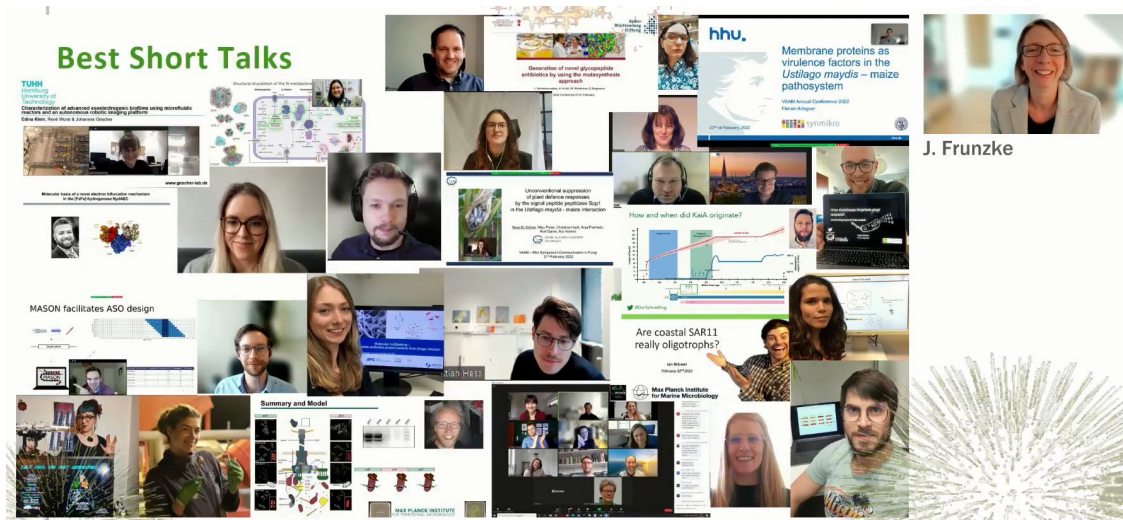
Adrian Tüllinghoff, Leipzig/ DE, Magdalena Uhl, Leipzig/ DE, Friederike Nintzel, Leipzig/ DE, Andreas Schmid, Leipzig/ DE, Bruno Bühler, Leipzig/ DE, Jörg Toepel, Leipzig/ DE, Phototrophic Microorganisms, eP245: *Maximizing photosynthesis-driven Baeyer-Villiger oxidation efficiency*

Maria Stroe, Jena/DE, Maria K. C. Krespach, Jena/DE, Lukas Zehner, Jena/DE, Maira Rosin, Jena/DE, Anna Komor, Jena/DE, Christian Hertweck, Jena/DE, Axel A. Brakhage, Jena/DE, Secondary Metabolism and Natural Products, eP472: *Inter-kingdom co-cultivation as targeted approach to induce silent fungal gene clusters and algal multicellularity*

Erika Muratov, Köln/DE, Felix Fuchs, Bochum/DE, Andrew Gibson, Bochum/DE, Ralf Möller, Köln/DE, Microbial Physiology and Metabolism, eP418: *Addressing the resilience of Bacillus subtilis biofilms to hydrogen peroxide*

Nico Linzner, Berlin/DE, Verena Nadin Fritsch, Berlin/DE, Tobias Busche, Bielefeld/DE, Quach Ngoc Tung, Berlin/DE, Vu Van Loi, Berlin/DE, Jörg Bernhardt, Greifswald/DE, Jörn Kalinowski, Bielefeld/DE, Haike Antelmann, Berlin/DE, Microbial Physiology and Metabolism, eP382: *The plant-derived naphthoquinone lapachol induces an oxidative stress response in Staphylococcus aureus*

Rebekka Lülff, Freising/DE, Matthias Ehrmann, Freising/DE, Microbial Diversity and Evolution, eP302: *Analysis of lupine seed-based moromi microbiota reveals a novel salt tolerant Chromohalobacter species*



Die besten Kurzvorträge jeder Session wurden durch das Votum der Zuhörer:innen ausgewählt und mit jeweils 100 Euro prämiert:

Rebecka Molitor, Antropogenically influenced environments, Jülich/DE, ST004: *Polluted marine habitats as prolific sources for polyester degrading enzymes*

Katharina Höfer, Regulation, Marburg/DE, ST022: *RNAylation of proteins – a new post-translational protein modification mediated by NAD-RNAs and a T4 phage ADP-ribosyltransferase*

Marie-Caroline Müller, Extrem(ophiles) - from bench to field & Fundamental and applied aspects of phototrophic metabolism, Bremen/DE, ST024: *2-oxoglutarate activates the glutamine synthetase of the methanogenic archaeon Methanothermococcus thermolithotrophicus via an allosteric site*

Hernandez-Perez Naybel, Small molecules shaping the living world, Tübingen/DE, ST036: *[S,S]-EDDS: Insights into its biosynthesis and its role in mediating bacterial interactions*

Pedreira Tiago, Synthetic microbiology and systems biology, Göttingen/DE, ST046: *Modulating bacterial data models – how databases can improve research*

Jakob Jung, Infection biology, Würzburg/DE, ST055: *RNA-Seq based transcriptomic profiling to understand off-target effects of antisense antibiotics*

Nora Marie Kühne, VAAM-Fachgruppe Fungal biology and biotechnology, Göttingen/DE, ST058: *Unconventional suppression of plant defence responses by the signal peptide peptidase Spp1 in the Ustilago maydis - maize interaction*

Joane Heslop, VAAM-Fachgruppe Umweltmikrobiologie, Potsdam/DE, ST065: *Microbe-substrate interactions following simulated microbial inoculation to thawed yedoma permafrost in anaerobic environments*

Larissa Keuer, Novel microbial viral defense systems beyond CRISPR VAAM-Fachgruppe Microbial viruses, Jülich/DE, ST072: *Molecular multitasking – Aminoglycoside antibiotics protect bacteria from phage infection*

Joshua Stoll, Microbial cell biology I, Marburg/DE, ST085: *Single molecule dynamics of bacterial GTPases suggests ribosome assembly lines at polar regions of non-compartmentalized cells*

Kevin C. Ludwig, Physiology of pathogens, Bonn/DE, ST091: *THCz - Synthetic small molecules that target the bacterial cell wall precursor lipid II*

Irina Voitsekhovskaia, Biotechnology I, Tübingen/DE, ST100: *Generation of novel glycopeptide antibiotics by using the mutasynthesis approach*

Patrick Lenz, Biotechnology I, Jülich/DE, ST095: *Towards a holistic monitoring system for protein production and secretion in *Bacillus subtilis**

Adrienne Kish, From Earth to Space – what can we learn from microbial life on Earth? VAAM-FG Weltraummikrobiologie, Paris/FR, IL-SG013: *Salt Trek- The Next Generation*

Jan D. Brüwer, Aquatic microbiology, Bremen/DE, ST110: *Oligo- and copiotrophy – are (coastal) SAR11 really oligotrophs?*

Edina Klein, Biotechnology II, Hamburg/De, ST115: *Characterization of advanced exoelectrogenic biofilms using microfluidic reactors and an autonomous robotic imaging platform*

Florian Altegoer, Fungal biology, Marburg/DE, ST125: *Membrane proteins as virulence factors in the *Ustilago maydis* – maize pathosystem*

Alexander Katsyv, Pathways and enzymes in anaerobic microorganisms, Frankfurt/DE, ST133: *Molecular basis of a novel electron bifurcation mechanism in the [FeFe]-hydrogenase HydABC*

Stefan Wimmi, Microbial Pathogenicity VAAM-Fachgruppe Microbielle Pathogenität, Marburg/DE, ST143: *The external pH regulates the activity of the *Yersinia enterocolitica* type III secretion system*

Philipp Spät, VAAM-Fachgruppe Funktionelle Genomik und Bioinformatik, Tübingen/DE, ST149: *Proteogenomics provides a powerful strategy to reannotate and discover novel ORFs in the cyanobacterium *Synechocystis* sp. PCC6803*

Nevena Maslac, Archaea, Bremen/DE, ST151: *Molecular basis for N₂-fixation in a thermophilic methanogen*

Nikolas Schmelling, Evolution and systematics of cyanobacteria VAAM-Fachgruppe Identifikation und Systematik, Düsseldorf/DE, ST159: *A novel KaiA extends the KaiB3-KaiC3 system and gives hints about the evolution of the circadian clock in prokaryotes*

Lipus Daniel, Terrestrial microbiology and environmental methods, Potsdam/DE, ST160: *Insights into the microbial community structure and function of a unique terrestrial subsurface ecosystem located in a geologically active rift region*

Philipp Magnus, Emerging research areas in bioeconomy and biotechnology, Düsseldorf/DE, ST170: *Ustilisa – a Sars-CoV2 antigen test based on unconventional secretion and immobilization of *U. maydis* chitinase Cts1*

Roberto Siani, Evolution of microbial pangenomes, München/DE, ST176: *A multi-scale genomic approach to explore *Acidovorax* interaction with a model plant host, *Lotus japonicus**

Susanne Thiery, Microbial cell biology II, Bochum/DE, ST184: *Contact-dependent predation processes of the predatory soil bacterium *Myxococcus xanthus* rely on protein secretion systems*

Anna Kwiatkowski, Physiology of aerobic and of facultatively anaerobic organisms, Berlin/DE, ST199: *A novel metal-free CO synthase with distinct functions in prokaryotes and eukaryotes*

Brittan Scales, Environmental and host-associated microbiomes, Rostock/DE, ST203: *The Culturable Pacific Plastic Microbiome*

Sebastian Hess, VAAM-Fachgruppe Symbiotische Interaktionen, Köln/DE, ST211: *An unusual tripartite symbiosis in spirostomid ciliates (*Heterotrichea*, *Ciliophora*) reveals a genomically reduced, photosynthetic endosymbiont of the Chromatiaceae (*Gammaproteobacteria*)*

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