

AGING MICROBIOME CONFERENCE 2024

| Tuesday Oct 22 | |
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| 8:30 – 9:00 | Registration |
| 9:00 – 9:10 | Opening Remarks <i>Clara Correia-Melo and Dario Valenzano</i> |
| 9:10 – 12:20 | Host-Microbiome Metabolism <i>Chair: Dario R. Valenzano</i> |
| 9:10 – 9:50 | Kai Blin , <i>Novo Nordisk Foundation Center for Biosustainability, Denmark</i> Prospecting for interesting metabolites in microbial (meta-)genomes. |
| 9:50 – 10:10 | Lena Best , <i>Institute of Experimental Medicine, University Hospital Schleswig Holstein, Germany</i> Metabolic modeling reveals the aging-associated decline of host-microbiome metabolic interactions in mice. |
| 10:10 – 10:30 | Anne Griebhammer , <i>University Hospital Tübingen, Germany</i> Non-antibiotic drugs break colonization resistance against pathogenic Gammaproteobacteria. |
| 10:30 – 11:00 | Coffee Break |
| 11:00 – 11:40 | Filipe Cabreiro , <i>CECAD Research Cluster Cologne, Germany</i> The microbiota is a key driver of ageing in a progeria model of mitochondrial disease. |
| 11:40 – 12:00 | Stephanie Treibmann , <i>Leibniz Institute on Aging – FLI, Germany</i> Gut Microbiome and Colorectal Cancer Crosstalk. |
| 12:00 – 12:20 | Aleksandra Zecic , <i>University of Cologne and University Hospital Cologne, Germany</i> Bacteria-derived branched-chain fatty acids as longevity regulators in <i>Caenorhabditis elegans</i> . |
| 12:20 – 14:30 | Lunch & Poster Session I |
| 14:30 – 17:30 | Host-Microbiome Aging <i>Chair: Melike Dönertas</i> |
| 14:30 – 15:10 | Maria Ermolaeva , <i>Leibniz Institute on Aging – FLI, Germany</i> Novel natural and engineered microbial enhancers of healthy aging. |
| 15:10 – 15:30 | Selina Stahl , <i>Ulm University, Germany</i> The relationship between age-associated immune remodeling and changes in the gut microbiome. |
| 15:30 – 15:50 | Dennis de Bakker , <i>Leibniz Institute on Aging – FLI, Germany</i> Age-associated brain inflammation, astrogliosis and learning deficiency can be mitigated through microbiota transfer in a short-lived vertebrate. |
| 15:50 – 16:10 | Coffee Break |

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| 16:10 – 16:50 | Meng Wang , <i>HHMI Janelia Research Campus, USA</i> Keynote Speaker Microbe-Organelle Interaction in Longevity Regulation. |
| 16:50 – 17:10 | Omid Omrani , <i>Leibniz Institute on Aging – FLI, Germany</i> Spatio-temporal characterization of the aging microbiome in the mouse gastrointestinal tract. |
| 17:10 – 17:30 | Tayyaba Alvi , <i>Leibniz Institute on Aging – FLI, Germany</i> Causal link between the gut microbiome and age-associated diseases. |
| 17:30 – 19:00 | Refreshments & Poster Session II |
| 19:00 – 23:00 | Dinner & Party |

Wednesday Oct 23

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| 9:00 – 12:30 | Host-Microbiome Interventions <i>Chair: Katarzyna Winek</i> |
| 9:00 – 9:40 | Maria Vehreschild , <i>University Hospital Frankfurt, Germany</i> Potential impacts of Fecal Microbiota Transfer on biological and clinical markers of aging. |
| 9:40 – 10:00 | Eugenia Goya , <i>ERIBA, University of Groningen, The Netherlands</i> Molecular mechanisms of Bacillus subtilis-induced protection against alpha-synuclein aggregation and toxicity in Caenorhabditis elegans. |
| 10:00 – 10:20 | Daria Jensen , <i>Max Planck Institute for Human Cognitive and Brain Sciences, Germany</i> Neural correlates of reward-enhanced food memory in a high-fibre diet interventional trial of overweight adults: A pre-registered analysis. |
| 10:20 – 10:50 | Coffee Break |
| 10:50 – 11:30 | Clara Correia-Melo , <i>Leibniz Institute on Aging – FLI, Germany</i> Metabolite exchange interactions: what does it mean to microbial aging and lifespan? |
| 11:30 – 11:50 | Aimee Parker , <i>Quadram Institute, UK</i> Investigating mediators of gut microbial modulation of the ageing eye and brain. |
| 11:50 – 12:10 | Dror Sagi , <i>Agricultural Research organization - Volcani Institute, Israel</i> The Laying Hen Makes Some Noise. |
| 12:10 – 12:30 | Poster Awards & Closing Remarks <i>Clara Correia-Melo and Dario Valenzano</i> |
| 12:30 – 14:00 | Lunch |