

Programme of the 17th GGL Conference on Life Sciences

Day 1: Wednesday, 11. Sept. 2024

08:30 - 09:00 Registration

09:00 - 09:30 Welcome Address : Prof. Alexander Goesmann, Vice President for Teaching
Opening Remarks: Prof. Dr. Eveline Baumgart-Vogt, Speaker of the GGL

Section 5 - Neurosciences/Chairperson: Leona Bähr

09:30 - 10:15 Sabine Vettorazzi, Institute of Comparative Molecular Endocrinology, Ulm University
Glucocorticoids: GUARDIANS of the inflammatory processes

10:15 - 10:30 Martin Feldotto: Deciphering neuroprotective effects of n-3 polyunsaturated fatty acids and the role of microglia: impacts of amyloid-beta oligomers, early life stress and adipokines related to Alzheimer's disease

10:30 - 10:45 Coffee Break

Section 1 - Nutrition and Metabolism

Section 7 - Bioresources, Bioinformatics and Biotechnology/Chairperson: Agata Szubert

10:45 - 11:30 Keynote: Martin Kussmann - Competence Center for Nutrition, Freising / Kussmann Biotech GmbH, Nordkirchen, Germany

Ai and Bioactives for human and planetary health

Silvana Hof-Michel: Transgenerational effects of valproic acid in the fruit fly *Drosophila melanogaster*

11:30 - 11:45

11:45 - 12:00 Julian Hahnfeld: swAMPy – a Scalable Workflow for AntiMicrobial Peptide discovery

12:00 - 12:45 General Assembly

12:45 - 13:45 Lunch

Section 4 - Protein and Nucleic Acid Interactions/Chairperson: Fiona Gockel

13:45 - 14:30 Keynote: Anne Spang, Biozentrum - Center of Molecular Life Sciences, University of Basel, Switzerland

Not all P-bodies are created equal: Exploring the differences and dynamics of stress-specific P-bodies

14:30 - 14:45 Julian Garrecht: The role of LEUNIG and SEUSS transcriptional regulators during land plant evolution

14:45 - 15:00 Kiriaki Kouti: Understanding the functions of Rift Valley Fever Virus nucleoprotein: Not merely a virus assembly factor, but also a host RNA binding protein?

15:00 - 15:15 Coffee Break

Section 10 - Clinical Sciences /Chairperson: Maria Hofmann

15:15 - 16:00 Kilian Hurley, Royal College of Surgeons Ireland (RCSI) Education & Research Centre, Beaumont Hospital, Dublin, Ireland

Utilising patient-derived induced pluripotent stem cells to find new treatments for interstitial lung disease

16:00 - 16:15 Julian Musa: LIPOSHAPE - Retroperitoneal LIPOsarcoma profiling of Spatial Heterogeneity Associating disease Progression and clonal cancer cell Evolution

16:15 - 16:30 Sebastian Stricker: microbial transglutaminase may play a role in celiac disease by increasing epithelial uptake of gliadin peptides

16:30 - 19:00 Poster Session and Finger Food

Day 2: Thursday, 12. Sept. 2024

Section 2 - Infection and Immunity/Chairperson: Lisa-Marie Seeber

09:15 - 10:00 **Marc Hübner, Institute for Medical Microbiology, Immunology and Parasitology (IMMIP), University Clinic Bonn**

Modulation of the metabolic and immunological profile by filariae and its impact on NCDs

10:00 - 10:15 **Maria Joao Carreiro:** In vitro transcomplementation of the satellite hepatitis D virus (HDV) replication

10:15 - 10:30 **Emmanuel Addo:** Mechanisms of transcript buffering in inflammation

10:30 - 10:45 **Rashmi Nakate:** Adhesion forces and cellular mechanotransduction in parasitic flatworms

10:45 - 11:00 **Coffee Break**

Section 8 - Chemical Design and Analysis of Molecular Systems/Chairperson: Frances Pauelsen

11:00 - 11:45 **Keynote: Prof. Michael Wolff, Institute of Bioprocess Engineering and Pharmaceutical Technology, University of Applied Sciences Mittelhessen**

Biological Nanoplexes: Process engineering advancements in production platform development

11:45 - 12:00 **Usman Ali:** Chitosan as a green solid catalyst for one-pot Knoevenagel condensation and scope into drugs intermediate synthesis

12:00 - 13:00 **Lunch**

Section 9 - Ecology and Global Change/Chairperson: Noemi Santo

13:00 - 13:45 **Claudia Pogoreutz, University of Perpignan, France**

The role of bacteria in marine animal hosts: The good, the bad, and the commensal

13:45 - 14:00 **Slim Bendag:** Wood as an alternative tank construction material in sustainable shrimp aquaculture

14:00 - 14:15 **Myriam Speth:** The Effect of Legume vs. Non-Legume Pre-Crops on Nitrogen Isotope Values of Nitrate Leached from an Agricultural Soil

14:15 - 14:30 **Coffee Break**

14:30 - 17:00 **Poster Session and Finger Food**

Section 3 - Heart, Lung and Blood Vessels/Chairperson: Samuel Olapju

17:00 - 17:45 **Allan Lawrie: National Heart and Lung Institute, Imperial College London, UK**

Exploring the heterogeneity of pulmonary hypertension

17:45 - 18:00 **Zahraa Msheik:** Micropeptide forming lncRNA16 and lncRNA19 - Major Regulators of Cellular Responses to Hypoxia in the Lung

18:00 - 18:15 **Theresa Schäfer:** GM-CSF improves alveolar repair upon IAV infection by modulating metabolic pathways in distal epithelial stem cells and preventing the emergence of inflammatory CD14+ alveolar epithelial cells

18:15 - 18:30 **Alejandro Egea Zorilla:** A profibrotic Notch signal derived from alveolar epithelial cells is essential for the development of pulmonary fibrosis

18:30 - 19:00 **Closing Remarks and Award Ceremony**