Friday, March 15th

Session III: Aging, Development and (Re)Degeneration, Trauma, and Immune Modulation  
Chair: Gilbert Weidinger

09:00-09:40  Ronald Kwon, Washington, USA  
"Phunctionalizing" the genome in zebrafish

09:40-10:00  Jessica Schiele, IGradU, Ulm  
Effects of prenatal stress on male and female offspring of Mycobacterium vaccae - treated C57BL/6N mothers

10:00-10:20  Dominik Schlotter, IGradU, Ulm  
Aging at the interface of DNA damage and inflammation: Impact of the sex

10:20-10:40  Coffee break

Session IV: Systems Biology, Infectious Diseases and Metabolic Disorders  
Chair: Jens von Einem

10:40-11:20  Stephen Graham, Cambridge, UK  
Multi-modal imaging of herpesvirus assembly

11:20-11:40  Stefanie Lietz, IGradU, Ulm  
The endogenous human protein α1-antitrypsin as a novel inhibitor of the Bordetella Pertussis toxin

11:40-12:00  Ulrike Büttner, IGradU Ulm  
Prediabetic phenotype accelerates development of pancreatic adenocarcinoma

12:00-12:20  Laura Cortez Rayas, IGradU, Ulm  
Secondary envelopment of HCMV is a fast process utilizing the endocytic compartment as membrane source

12:20-12:40  Sarah Abele, IGradU, Ulm  
Expanding AAV applicability as preclinical disease research tool

Closing remarks

End of the meeting
### Session I: Satellite meeting of the Neurocentrum Ulm

**Chair:** Tobias Böckers

**Eckart Gundelfinger, Magdeburg**

**Dissonances in the presynaptic orchestra – Potential mechanisms of Bassoon-related human brain diseases**

**Maria Victoria Martinez Dominguez, IGradU, Ulm**

**Long-term release delivery method of antisense oligonucleotides in hiPSC derived motor-neurons from SMA disease**

**Yuhua Ma, IGradU, Ulm**

**Activation of MAPK/ERK pathway correlates with impaired myelination in SHANKy deficiency**

**Benjamin F. Grewe, Zürich, Switzerland**

**Bridging Biological and Artificial Neuronal Networks**

**16:15-17:00 coffee break and poster session**

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### Session II: Oncology and Endocrinology

**Chair:** Reiner Siebert

**Helene Kretzmer, Berlin**

**Preneoplastic changes define the DNA methylome in Chronic Lymphocytic Leukemia**

**Cosima Drewes, IGradU, Ulm**

**Genetic and Epigenetic Characterization of Chronic Lymphocytic Leukemia with IGH-translocation**

**Thomas Schumacher, IGradU, Ulm**

**A Deep Learning Approach to Enhance Treatment Response Prediction in Cancer**

**Anna Härle, IGradU, Ulm**

**Does ATM deficiency provide a benefit to pancreatic tumor cells in a metabolic stress context?**

**Lothar Hennighausen, Bethesda, USA**

**JAK/STAT and Single Nucleotide Variants that perturb homeostasis**

**Kim-André Lohse, IGradU, Ulm**

**Interaction between the immune system and murine PDAC**

**Yuhua Ma, IGradU, Ulm**

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**Bridging Biological and Artificial Neuronal Networks**

**17:00 Key Note Lecture**

**Chair: Alberto Catanesi, Ritchie Ho, Los Angeles, USA**

**Exploring New Dimensions of Amyotrophic Lateral Sclerosis with Human iPSC and Animal Models**

**18:00 Graduation Ceremony**

**Bernd Knoll, IGradU, Ulm**

**Chairman International Graduate School in Molecular Medicine Ulm, IGradU, Ulm**

**Come-Together-Party**

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### Session III: Neurology II

**Chair:** Karin Danzer

**Ina Vorberg, Bonn**

**Protein aggregation goes viral: How viral proteins modulate the intercellular spreading of proteopathic seeds**

**Laura Meier, IGradU, Ulm**

**Multiomic epitope and transcriptome single cell profiling in blood and brain cells from major depressive disorder patients**

**Lorena Decker, IGradU, Ulm**

**Mechanism regulating the expression of the Fragile X Protein Family in neurodegenerative diseases**

**Yun Chen, IGradU, Ulm**

**Characterization of Bcl11a/b transcription factors in multi-protein complexes during corticogenesis**

**09:00-09:40 Ina Vorberg, Bonn**

**09:40-10:00 Laura Meier, IGradU, Ulm**

**10:00-10:20 Lorena Decker, IGradU, Ulm**

**10:20-10:40 Yun Chen, IGradU, Ulm**

**10:40-11:00 coffee break**

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**Ritchie Ho, Los Angeles, USA**

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**12:40-13:30 lunch break**

**Lothar Hennighausen, Bethesda, USA**

**JAK/STAT and Single Nucleotide Variants that perturb homeostasis**

**13:30-14:10 Kim-André Lohse, IGradU, Ulm**

**Interaction between the immune system and murine PDAC**

**14:10-14:30 Julia Wildfeuer, IGradU, Ulm**

**Functional analyses of PTP1B in the classical Hodgkin’s lymphoma**

**14:30-14:50 Ahmed Salem, IGradU, Ulm**

**Mechanistic Evaluation of the First Peptide-based Human EndoGI Protecting Against Therapy-Induced MLL**

**14:50-15:10 coffee break**

**Come-Together-Party**

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**Bernd Knöll, IGradU, Ulm**

**Chairman International Graduate School in Molecular Medicine Ulm, IGradU, Ulm**

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