



22. BONFOR-SYMPOSIUM 2024

Monday, 13.05.2024
09:00 – 17:00

University Hospital Bonn
DZNE | Lecture Hall and Floor
Building 99, Venusberg-Campus 1



We cordially invite all students, PhD students, young scientists and faculty members to the Joint Symposium of BONFOR, Neuro-aCSis and the ACCENT program

The Medical Faculty of the Rheinische Friedrich-Wilhelms-Universität Bonn is committed to the promotion of scientists in the field of medical research. The faculty's own funding program, BONFOR, which supports outstanding young scientists by providing them with start-up funds, has proven to be a successful springboard into research for many young scientists. A large number of research projects have been funded in recent years, some of which have led to groundbreaking scientific findings and significant external funding.

The Neuro-aCSis program is a partly DFG-funded, partly faculty-funded clinical scientist program aimed at medical residents in the midst of their residency training. The scientific focus is on diseases of the nervous system and their relationship to systemic factors.

The BMBF-funded Advanced Clinician Scientist Program (ACCENT) is aimed at outstanding physicians with completed medical training and an established research profile. The program offers 50% protected research time over a period of six years. The program aims to link clinical and basic research in the spirit of scientific translation.

First, young scientists will present the results of their research projects funded by various instruments in individual lectures, followed by the advanced clinician-scientists. The poster session is intended for SciMed fellows to present their project. It will be held in the afternoon after the lectures.

The symposium provides a platform for all fellows to present their work. A doctoral promotion fair (Promotionsbörse) will begin with a lunch seminar and continue during the poster session to provide insights into the individual research groups. The aim of the promotion fair is to help medical students to find a project and a research group for their MD thesis.

We hope that this symposium will be a good opportunity for the research community at the Medical Faculty of the University of Bonn to establish and consolidate scientific interactions and to learn about ongoing research projects.

We hope to see you at the meeting.

9:00 – 9:30 | Welcome

Prof. Dr. med. Bernd Weber
Dean of the Medical Faculty
Prof. Dr. rer. nat. Susanne Schoch McGovern
Chair of BONFOR-Kommission
Prof. Dr. med. Michael Hölzel
Chair of SciMed-Kommission
Prof. Dr. med. Annkristin Heine
Co-Speaker ACCENT
Prof. Dr. med. Gabor Petzold
Speaker Neuro-aCSis

9:30 – 10:45 | Project Presentations

9:30 – 9:45 **Dr. med. Jonas Saal**
On-treatment biomarkers for response prediction in immune-checkpoint inhibition
Medical Clinic and Polyclinic III for Hematology and Oncology
9:45 – 10:00 **Dr. rer. nat. Eva Beins**
Does genetic risk for depression influence microglial function? Analyses in human iPSC-derived microglia
Institute of Human Genetics
10:00 – 10:15 **Dr. med. Lea Friker**
Detection of NLRP1 inflammasome distribution in glioblastoma by CO-DEX multiplex immunofluorescence
Institute of Neuropathology
10:15 – 10:30 **PD. Dr. med. Matthias Schneider**
Bridging the gap into the clinic: Meclofenamate causes loss of cellular tethering and functional decoupling of cellular networks in glioblastoma
Clinic and Polyclinic for Neurosurgery

10:30 – 10:45 **Dr. med. Yunyang Zhang**
The role of shear stress on circulating T cells in the pathogenesis of calcific valve stenosis.
Department of Anesthesiology and Intensive Care Medicine

10:45 – 11:00 | Coffee Break

11:00 – 12:00 | Project Presentations

11:00 – 11:15 **Dr. rer. nat. Mona Malek Mohammadi**
The role of fibroblasts in cardiac regenerative ability of neonatal mice
Institute of Physiology I
11:15 – 11:30 **PD. Dr. med. Damian Ralsler**
Establishment of patient-derived tumor models to explore tumor-intrinsic and microenvironmental effects of novel therapeutic strategies in ovarian cancer
Clinic for Gynecology and Gynecological Oncology
11:30 – 11:45 **Dr. med. Tobias Bauer**
MRI-based modelling in autoimmune limbic encephalitis and Rasmussen's encephalitis
Department of Epileptology
11:45 – 12:00 **Salime El-Hazour**
Investigating prospective FVIII intracellular routes involving GABARAP
Institute for Exp. Hematology and Transfusion Medicine

12:00 – 13:15 | Lunch Break

12:00 – 16:00 | Doctoral Promotion Fair (Promotionbörse)

12:00 – 13:00 **Lunchtalk**
Greta Balmer, Dr. med. Simon Petzinna
Experience with a SciMed fellowship and a medical doctorate

13:15 – 14:15 | Talks of ACCENT and Neuro-aCSis Fellows

13:15 – 13:30 **Dr. med. Tim Ebert**
Exploring stress and its system-wide actions
Department of Psychiatry and Psychotherapy
13:30 – 13:45 **PD. Dr. med. Dr. phil. Cornelia McCormick, Dipl. Psych.**
Autobiographical memory recall with a blind mind and a blind eye
Clinic for Neurodegenerative Diseases and Geriatric Psychiatry
13:45 – 14:00 **Dr. med. Johanna Knöferle**
Impact of T-cells on the development and progression of Alzheimer's disease
Clinic for Neurodegenerative Diseases and Geriatric Psychiatry
14:00 – 14:15 **PD. Dr. med. Niklas Klümper**
Early on-treatment kinetics of inflammatory blood parameters can enhance prediction of immunotherapy response in uro-oncology
Department of Urology

14:15 – 14:30 | Coffee Break

14:30 – 16:00 | Poster Session

Juliane Luisa Berns
Dysfunction of the Olfactory Network in Temporal Lobe Epilepsy
Department of Epileptology

Markus Schmidt
Immune profiles in patients with autoimmune epilepsy
Department of Epileptology, Department of Neuroradiology
Yannic Hackenberg
TargQuantification of lysosomal proteins in different human sample types
Institute of Biochemistry and Molecular Biology

Lucas van den Boom
Novel genetically encoded K+ indicator enables measurements of pericellular potassium ion concentration
Institute of Physiology I

Martin Felix Wiemann
Establishing of Gene therapy for BAG3P209L-myofibrillar myopathy
Institute of Physiology I

Judith Langen
Optogenetic determination of cardiac excitability and electrical coupling in the intact heart and the consequence for initiation of cardiac arrhythmias
Institute of Physiology I

Justus Eschweiler
Activation, regulation and effects of the mitochondrial unfolded protein response in endothelial cells
Medical Clinic and Polyclinic II

Katja Müller
Epigenetic modulation of immune pathways in small cell lung cancer through DZNep
Institute of Experimental Oncology

Marvin Lohaus
Differential modulation of resting-state functional connectivity between amygdala and precuneus after acute physical exertion of varying intensity: indications for a role in affective regulation
Clinic for Diagnostic and Interventional Radiology

Julius Pauleit
Analyzing the role of MCH/MCHR1 signaling in controlling adipogenesis via the primary cilium
Institute of Innate Immunity
Tim Schleicher
Characterization of [Ca²⁺]_i signaling in brown adipocytes
Institute of Pharmacology and Toxicology
Geena Rennen
Personalized lens correction improves quantitative fundus autofluorescence analysis
University Eye Clinic
Saif-Eldin Abedellatif
Establishment of patient-derived organoids from melanoma brain metastases: An in vitro platform for drug screening.
Institute of Pathology
3R Poster
Dean's Office of the Medical Faculty
Transfer Poster
Dean's Office of the Medical Faculty
Interne Förderung Poster
Dean's Office of the Medical Faculty
TRA Life & Health Poster
University of Bonn

16:00 – 16:15 | Coffee Break

16:15 – 16:30 | Final Words & Award Ceremony

Hosts

BONFOR-Research Commission of the Medical Faculty of the University of Bonn

BONFOR-Commission Chair

Prof. Dr. rer. nat. Susanne Schoch McGovern
Prof. Dr. med. Markus Essler

BONFOR SciMed-Commission Chair

Prof. Dr. med. Michael Hölzel
Prof. Dr. med. Albert J. Becker

Neuro-aCSis-Commission Chair

Prof. Dr. med. Gabor Petzold
Prof. Dr. med. Anja Schneider

ACCENT-Commission Chair

Prof. Dr. med. Anja Schneider
Prof. Dr. med. Annkristin Heine

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