

Graduate School “Else Kröner-Promotionskolleg - Jena School for Ageing Medicine (JSAM)”

In the second funding round, the Jena School for Ageing Medicine (JSAM) at the Jena University Hospital will award up to 12 doctoral fellowships for medical doctorates in the winter semester 2019/2020. The research projects provided by the JSAM programme will focus on major questions of ageing and age-related diseases with the aim to define targets for therapeutic interventions that counteract age-related disorders of cellular and systemic functions.

Research projects are offered that investigate the aspects of ageing in different organ systems. The complete list of all project proposals including a project description can be found on the JSAM website: www.uniklinikum-jena.de/jsam/Bewerbung.

The Graduate School “Else Kröner Promotionskolleg JSAM”, which was established at the Jena University Hospital at the beginning of 2018, supports particularly ambitious medical and dental students with the aim of getting them interested in medical research at an early stage and qualifying them for an academic career as clinician scientists.

The JSAM offers

- Thesis projects of high scientific standard
- 12 months research time,
- supported by an attractive monthly stipend of 1000€, and
- Funding of consumables for research work
- An outstanding interdisciplinary research environment
- Individual supervision by the project leader and support by a three-member doctoral committee
- A structured research-oriented qualification programme consisting of soft skill courses, workshops, retreats as well as social events and networking
- Opportunity to participate in congresses
- Opportunity of research visits in international host laboratories

The JSAM is looking for highly motivated students,

- with great interest in a medical doctorate in the field of ageing medicine
- of human medicine and dentistry from the fifth semester onwards
- who will have an one-year leave of absence from study to undertake project-based experimental work
- who commit themselves to regular participation in the JSAM qualification programme
- who are characterized by their ability to work independently with a high degree of initiative

The written application should contain

- Letter of motivation included:
Short statement about the personal interest in the topic of the Graduate School “Else Kröner-Promotionskolleg Jena School for Ageing Medicine (JSAM), reference to the desired project (please also name an alternative project) and ideas about the personal career
- Curriculum vitae (CV)
- Research experience and publications, if available
- Academic achievements (copies of certificates)

***** Please send your application as a single PDF document by Tuesday, 30. April 2019,
to: jsam@med.uni-jena.de *****

Further information about the Graduate School “Else Kröner-Promotionskolleg JSAM” can be found on the Homepage www.uniklinikum-jena.de/jsam or please contact the JSAM Office.

Second funding round of doctoral fellowships

If you have any questions about the scientific projects, please contact the responsible project leaders.

Contact

JSAM Office
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www.uniklinikum-jena.de/jsam

Research projects winter semester 2019/2020

Following you will find an overview of all projects that have been put out to tender. All projects are interdisciplinary and require willingness for interdisciplinary cooperation. Applicants are requested to select at least two projects (desired project & alternative project).

Project 1: Characterizing the ER stress response in ALS; a novel translational approach using patient-derived leukocytes

Supervisor: [PD Dr. Julian Grosskreutz](#), RG NEDIG, Department for Neurology

Contact: [E-Mail](#), Tel: +49 - 9 323 426

Project 2: Exploration of age-dependent differentiation capacity of human/murine mesenchymal stem cells

Supervisor: [Prof. Dr. Uta Dahmen](#), RG Experimental Transplantation Surgery, Department for General, Visceral and Vascular Surgery

Contact: [E-Mail](#), Tel: +49 3641 - 9 325 350

Project 3: Cardiac mitochondria as mediators of premature ageing with low exercise capacity

Supervisor: [Dr. Michael Schwarzer](#), Department for Cardiac and Thoracic Surgery

Contact: [E-Mail](#), Tel: +49 3641 - 9 322 990

Project 4: Age-dependent mechanisms of Learning, Unlearning and Relearning

Supervisor: [PD Dr. Carsten Klingner](#), RG Neuroimaging, Biomagnetic Centre, Department for Neurology

Contact: [E-Mail](#) (PD Dr. Carsten Klingner)

Project 5: Unsupervised motor learning in a virtual environment

Supervisor: [PD Dr. Stefan Brodoehl](#), RG Neuroimaging, Biomagnetic Centre, Department for Neurology

Contact: [E-Mail](#)

Second funding round of doctoral fellowships

Project 6: Age-dependent impairment of brain plasticity by microglial aging

Supervisor: [Dr. Christian Schmeer](#), RG Neuroglia, Department for Neurology

Contact: [E-Mail](#), Tel.: +49 3641 - 9 325 828

Project 7: Role of the nuclear pore complex (NPC) in replicative reprogramming of neurons in the aged and ALS-diseased CNS

Supervisor: [Dr. Alexandra Kretz](#), RG Neurodegeneration and regeneration, Department for Neurology

Contact: [E-Mail](#), Tel.: +49 3641 - 9 323 499

Project 8: Targeting the interaction between plasmacells and microenvironment to treat multiple myeloma

Supervisors: [Prof. Dr. Marie von Lilienfeld-Toal](#), RG Infections in Haematology/Oncology, Department of Hematology and Medical Oncology

[Dr. Annamaria Brioli](#), RG Infections in Haematology/Oncology, Department of Hematology and Medical Oncology

Contact: [E-Mail](#), Tel.: +49 3641 - 9 324 210 (Prof. Dr. Marie von Lilienfeld-Toal)

[E-Mail](#) (Dr. Annamaria Brioli)

Project 9: Organ repair by reconditioning aged, ischemic and steatotic rodent livers using normothermic, oxygenated long term machine perfusion

Supervisor: [Prof. Dr. Utz Settmacher](#), Department for General, Visceral and Vascular Surgery

Contact: [E-Mail](#), Tel: +49 3641 - 9 322 601

Project 10: Tissue engineering of a porcine pulmonary conduit for interventional treatment of pulmonary hypertension

Supervisor: [PD Dr. med. Jürgen Zanow](#), Department for General, Visceral and Vascular Surgery

Contact: [E-Mail](#)

Project 11: The potential of neural stem cells during aging: Neurogenesis, cognition and regeneration

Supervisor: [Dr. Silke Keiner](#), RG Neural stem cells and adult neurogenesis, Department for Neurology

Contact: [E-Mail](#), Tel: +49 3641 - 9 323 914

Project 12: Gut-brain Interaction in Age: Influence on Cognition

Supervisor: [Dr. Christiane Frahm](#), RG Ageing and Plasticity, Department for Neurology

Contact: [E-Mail](#)

Second funding round of doctoral fellowships

Project 13: Functional Analysis of De Novo Mutated Genes in Progression of Non-muscle Invasive Bladder Cancer (NMIBC)

Supervisor: [Dr. Daniel Steinbach](#), Research Laboratory, Department for Urology

Contact: [E-Mail](#), Tel: +49 3641 - 9 390 880

Project 14: The impact of age-related host factors on Staphylococcus aureus chronic infection development

Supervisors: [PD Dr. Lorena Tuchscher de Hauschopp](#), RG Tuchscher, Institute for Medical Microbiology
[Dr. Maria Ermolaeva](#), RG Stress Tolerance and Homeostasis, Leibniz Institute on Aging - Fritz Lipmann Institute (FLI)

Contact: [E-Mail](#), Tel: +49 3641 - 9 393 628 (PD Dr. Lorena Tuchscher de Hauschopp)

[E-Mail](#), Tel: +49 3641 - 656 805 (Dr. Maria Ermolaeva)

Project 15: Analysis of risk factors for accelerated aging using BrainAGE

Supervisors: [Prof. Dr. Christian Gaser](#), RG Structural Brain Mapping Group, Department for Neurology

[Dr. Katja Franke](#), RG Structural Brain Mapping Group, Department for Neurology

Contact: [E-Mail](#), Tel: +49 3641 - 9 325 778 (Prof. Dr. Christian Gaser)

[E-Mail](#), Tel: +49 3641 - 9 325 771 (Dr. Katja Franke)

Project 16: Functional role of astrocytes in learning-dependent brain plasticity – AstroPlast

Supervisors: [Dr. Silvio Schmidt](#), Department for Neurology

[Prof. Dr. Otto W. Witte](#), Department for Neurology

Contact: [E-Mail](#), Tel: +49 3641 - 9 325 778 (Dr. Silvio Schmidt)

[E-Mail](#), Tel: +49 3641 - 9 325 771 (Prof. Dr. Otto W. Witte)

Project 17: Division-coupled loss of adult stem cells as mechanism of cognitive aging

Supervisor: [Dr. Anja Urbach](#), RG Hippocampal Plasticity and Neurogenesis, Department for Neurology

Contact: [E-Mail](#), Tel: +49 3641 - 9 325 901

Project 18: Cytokine profiling and eQTL analyzes after extended hepatectomy

Supervisor: [Dr. Hans-Michael Tautenhahn](#), Department for General, Visceral and Vascular Surgery

Contact: [E-Mail](#), Tel: +49 3641 - 9 322 628

Project 19: Die Rolle von CCL11 bei der Alterung von Mikroglia

Supervisor: [Helen Morrison PhD](#), RG Nerve Regeneration, Leibniz Institute on Aging - Fritz Lipmann Institute (FLI)

Contact: [E-Mail](#), Tel: +49 3641 - 656 139

Second funding round of doctoral fellowships

Projekt 20: Impact of aging on the induction of a tissue-destroying host response to chronic bacterial infection with pathogenic bacteria

Supervisors: [Dr. Ulrike Schulze-Späte](#), Section of geriatric dentistry, Clinic for Conservation Dentistry (Odontology) and Periodontology, Centre for dental, oral and orthodontic medicine
[Dr. Annika Döding](#), Section of geriatric dentistry, Clinic for Conservation Dentistry (Odontology) and Periodontology, Centre for dental, oral and orthodontic medicine

Contact: [E-Mail](#), Tel: +49 3641 - 9 34 543 (Dr. Ulrike Schulze-Späte)
[E-Mail](#), Tel: +49 3641 - 9 396 722 (Dr. Annika Döding)