

# LOGBOOK

for PhD and MD students  
of the Research Training  
Group *ProMoAge*



RTG 2155

ProMoAge

## Contact

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## The Research Training Group 2155 - *ProMoAge*

Ageing leads to impairment of tissue homeostasis and functional decline of organs and represents a main risk factor for prevalent diseases such as cardiovascular disease and neurodegeneration in developed countries. The aims of the Research Training Group ProMoAge are to investigate posttranslational modifications of cellular proteins as key players in age progression and to provide conditions that allow the participating PhD/MD candidates to qualify for a future career in interdisciplinary ageing research.

Scientists from the universities of Halle and Jena as well as from the Leibniz Institute on Aging, Jena, with expertise in various fields of chemistry, biochemistry, molecular and cell biology and “omics”-based technologies provide doctoral projects related to protein modifications as key mechanisms of ageing.

In addition, *ProMoAge* offers an innovative qualification programme including state-of-the-art methodological platforms and high-quality training in theoretical and practical aspects of ageing research. The programme consists of mandatory and elective modules based on individual interests and needs. Mandatory modules comprise workshops, lecture series, summer schools, retreats, activities in the individual research groups, and courses in good scientific practice, biostatistics and transferable skills. The annual study programme of every PhD fellow will correspond to an overall work load of 210 hours (7 ECTS credit points). MD candidates will participate in the qualification programme for one year – the expected duration of their experimental work. Importantly, *ProMoAge* will include international exchange on multiple levels.

## Foreword

Dear Doctoral Students,

This logbook has been prepared in accordance with the DFG rules for good scientific practice and will assist you throughout your PhD/MD studies within the Research Training Group 2155 *ProMoAge*. It represents an official record of the contacts between you and your supervisor(s), of the modules you participated in and, related to that, of the acquired qualifications. Moreover, it serves to ensure the quality of training of young researchers within *ProMoAge*.

As *ProMoAge* doctoral students, you are required to keep logbooks and record your activities and your participation in mandatory and elective qualification modules. You are advised:


- to prepare your logbook with care and honesty
- to ask the respective supervisor/lecturer to confirm the participation in required modules and the acquired competencies by signature
- to send a scanned copy of the logbook to the *ProMoAge* training coordinators annually for review and documentation purposes (MD students: semi-annually)
- to present your logbook to supervisors at any meeting upon request and to make it available to reviewers and members of your supervision committee during the reviewing process of your thesis.

Additionally, we will provide you with templates for supervision agreements and progress reports. The latter will help you to prepare the annual meetings with your thesis committee and to record the agreed objectives. The progress reports and supervision agreement have to be enclosed to your logbooks.

We highly appreciate any comments and suggestions that will enable us to further improve the logbooks and the *ProMoAge* qualification programme.

We wish you all a good start of your doctoral studies as well as a successful completion of it.

Sincerely yours,



**Prof. Dr. Andreas Simm**  
Spokesperson RTG 2155



**Prof. Dr. Regine Heller**  
Deputy Spokesperson RTG 2155

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**Photos cover page:**

Pavan Kumar Kalla (1,2) & FSU Photo Center (3)

## Doctoral candidate & supervisors

\_\_\_\_\_  
Doctoral candidate (*name*)

\_\_\_\_\_  
1<sup>st</sup> Supervisor (*name / department*)

\_\_\_\_\_  
2<sup>nd</sup> Supervisor (*name / department*)

\_\_\_\_\_  
3<sup>rd</sup> Supervisor (*name / department*)

## Contact information (doctoral candidate)

\_\_\_\_\_  
Institute / Department

\_\_\_\_\_  
E-mail

\_\_\_\_\_  
Phone

## Doctoral studies

\_\_\_\_\_  
Title of thesis

\_\_\_\_\_  
Subproject number

\_\_\_\_\_  
Length of PhD/MD studies (*beginning [mm.yyyy] / expected end [mm.yyyy]*)

\_\_\_\_\_  
Funding (*RTG 2155, other project funding, fellowship*)

Mandatory modules (80%)	No. of events per year, mandatory for students	
	PhD	MD
<b>ProMoAge-specific modules</b>		
Full-day workshops (lecture series “Research Into Ageing”, progress reports)	4	4
Summer school with method courses	1	1
Scientific retreat	1	1
<b>Activities in research groups/institutions</b>		
Progress reports	1	2
Literature seminars	2	2
<b>Good scientific practice<sup>2</sup></b>		
<b>Data management and biostatistics<sup>2</sup></b>		
<b>General-skill courses (selected from transferable skill courses)</b>	1	1
<b>Annual thesis committee meeting<sup>3</sup>, including report<sup>4</sup></b>	1	2
<b>Elective modules (20%)</b>		
<b>Complementary modules</b>		
Lecture series of JSMM or “Promotionskolleg Medizin”		
Lectures of visiting researchers		

<sup>1</sup> MD students will participate in the qualification programme for one year which corresponds to the expected duration of their experimental work.

<sup>2</sup> One course per three years.

<sup>3</sup> The original of the Annual thesis committee meeting form needs to be forwarded to the RTG training coordinators for documentation purposes.

<sup>4</sup> A copy of the report needs to be forwarded to the RTG training coordinators for documentation purposes.

<b>Complementary modules <i>continued</i></b>		
Methods courses on demand ( <i>see pp. 9-10</i> )		
Animal research courses		
Laboratory rotation		
National and international scientific meetings		
Supervision of undergraduate fellows		
Assistance during summer schools		
Tutoring		
<b>Transferable skills<sup>5</sup></b>		
Language courses (English, German)		
Time and project management		
Presentation techniques		
Scientific writing		
Grant applications		
Bioinformatics		
Conflict management		
Legal and safety issues		
Organisation and public relations activities		

<sup>5</sup> External offers, e.g. from local graduate academies.



## Method Courses on Demand\*

Available techniques	Responsible scientist
<ol style="list-style-type: none"> <li>1. LC/MS-practical</li> <li>2. Workup-amino acid modifications</li> </ol>	<p>Marcus A. Glomb</p>
<ol style="list-style-type: none"> <li>1. Cardiovascular animal techniques (tail cuff invasive blood pressure, ECG, Echo)</li> <li>2. Droplet digital PCR</li> </ol>	<p>Claudia Großmann</p>
<ol style="list-style-type: none"> <li>1. Monitoring of cell states with genetically-encoded fluorescence sensors</li> <li>2. Electrophysiological approaches to characterise functional states of membrane proteins</li> </ol>	<p>Stefan H. Heinemann</p>
<ol style="list-style-type: none"> <li>1. Endothelial cells: preparation, culture and functional characterisation</li> <li>2. Replicative and premature senescence: models and markers</li> <li>3. Analysis of protein degradation systems (proteasome, autophagy) and glucose and fatty acid metabolism</li> </ol>	<p>Regine Heller</p>
<p>Neuroglycobiology: neuronal cell culture, neurite outgrowth, real time analysis, quantification of sialic acids by HPLC</p>	<p>Rüdiger Horstkorte</p>
<ol style="list-style-type: none"> <li>1. Histological analyses of different tissues (dissection, embedding, cryosections, histological stainings, immunofluorescence analyses)</li> <li>2. Investigation of stem cell function</li> </ol>	<p>Julia von Maltzahn</p>
<p>Confocal microscopy of huntingt in aggregates and amyloid-specific dyes</p>	<p>Heidi Olzscha (online/Hamburg)</p>
<p>Quantitative proteomics experiments for analysis of post-translational modifications using mass spectrometry</p>	<p>Alessandro Ori / Florian Meier-Rosar</p>
<ol style="list-style-type: none"> <li>1. Current techniques for application of human iPS cells</li> <li>2. Tools and applications for psychiatry genetics</li> </ol>	<p>Matthias Jung</p>

\*this list will be updated following the developments in our research groups. Please check updates on our homepage

Available techniques	Responsible scientist
Analysis of Wnt/ $\beta$ -catenin signalling pathway	Otmar Huber
1. Mouse generation      2. Genome editing 3. Slice electrophysiology 4. Primary neuron cultures	Christian Hübner
1. Senescence and its associated changes in the secretory pathway in senescent fibroblasts 2. Microscopy: confocal, superresolution, apoTome	Christoph Kaether
1. <i>C. elegans</i> as a model in ageing research 2. Methods for the determination of oxidative stress	Lars-Oliver Klotz
1. Embryonic stem cell culture and differentiation 2. Detection of protein modifications in cells and tissues by ICC/ IHC	Anne Navarrete Santos
1. FACS separation of stem cells 2. shRNA screening	Alessandro Ori
1. Two-dimensional gel electrophoresis 2. Cell sorting by flow cytometry	Thomas Hollemann / Matthias Jung
1. Flow cytometry: proliferation-apoptosis-senescence 2. Isolation of glycated collagen from vessels/heart	Andreas Simm

# Thesis Committee Meetings

Date	Venue	Supervisors present	Signatures

# Activities in Research Groups/Institutions

Date	Type of activity (e.g., progress report, paper presentation) and title	Signature supervisor

## Activities in Research Groups/Institutions

Date	Type of activity (e.g., progress report, paper presentation) and title	Signature supervisor

## Activities in Research Groups/Institutions

Date	Type of activity (e.g., progress report, paper presentation) and title	Signature supervisor













Conference title:

Venue/Date:

Type of presentation: [ ] poster [ ] talk

Presentation title & authors:

Conference title:

Venue/Date:

Type of presentation: [ ] poster [ ] talk

Presentation title & authors:

Conference title:

Venue/Date:

Type of presentation: [ ] poster [ ] talk

Presentation title & authors:

Conference title:

Venue/Date:

Type of presentation: [ ] poster [ ] talk

Presentation title & authors:

Conference title:

Venue/Date:

Type of presentation: [ ] poster [ ] talk

Presentation title & authors:

Conference title:

Venue/Date:

Type of presentation: [ ] poster [ ] talk

Presentation title & authors:

Conference title:

Venue/Date:

Type of presentation: [ ] poster [ ] talk

Presentation title & authors:

Conference title:

Venue/Date:

Type of presentation: [ ] poster [ ] talk

Presentation title & authors:

Conference title:

Venue/Date:

Type of presentation: [ ] poster [ ] talk

Presentation title & authors:

Authors, year, title, journal/conference proceedings/book, publisher, pages

Authors, year, title, journal/conference proceedings/book, publisher, pages

Authors, year, title, journal/conference proceedings/book, publisher, pages

Authors, year, title, journal/conference proceedings/book, publisher, pages

Authors, year, title, journal/conference proceedings/book, publisher, pages

Authors, year, title, journal/conference proceedings/book, publisher, pages



Name:

Donor/Funding body:

Reason for award:

Date:

Name:

Donor/Funding body:

Reason for award:

Date:

Name:

Donor/Funding body:

Reason for award:

Date:

Date/Period of time:

Type of activity (e.g., supervision of bachelor/master students, practical courses):

Extent:

Number of participants:

Date/Period of time:

Type of activity (e.g., supervision of bachelor/master students, practical courses):

Extent:

Number of participants:

Date/Period of time:

Type of activity (e.g., supervision of bachelor/master students, practical courses):

Extent:

Number of participants:



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Toni Ehrhardt	PhD	Prof. Dr. Dan Rujescu
Rabea Fasse	MD	Prof. Dr. Anne Navarrete Santos
Susan Garbe	MD	Prof. Dr. Anne Navarrete Santos
Christoph Hohmann	PhD <sup>6</sup>	Prof. Dr. Marcus Glomb
Ralf Hübschmann	PhD	Prof. Dr. Claudia Großmann
Astrid Junk	MD	Prof. Dr. Andreas Simm
Edina Korca	MD	Prof. Dr. Andreas Simm
Ioana Lemnian	PhD	Prof. Dr. Katrin Hoffmann
Huaize Liu	PhD	Prof. Dr. Thorsten Pffirmann
Jenny Pfeifer	PhD <sup>6</sup>	Prof. Dr. Dan Rujescu/ Dr. Matthias Jung
Veronika Piskovatska	PhD <sup>6</sup>	Prof. Dr. Andreas Simm
Philip Rosenstock	PhD	Prof. Dr. Rüdiger Horstkorte
Jonas Scheffler	MD	Prof. Dr. Rüdiger Horstkorte
Tom Seeling	PhD	Prof. Dr. Anne Navarrete Santos
Festa Serhati	MD	Prof. Dr. Andreas Simm
Frieder Simon	MD	Prof. Dr. Rüdiger Horstkorte
Georgiana Toma	PhD	Prof. Dr. Barbara Seliger
Arina Urazova	PhD	Prof. Dr. Andreas Simm
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<sup>6</sup> Associated doctorand

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Karl Köhnlein	PhD	Prof. Dr. Lars-Oliver Klotz
Nikita Kuldyushev	PhD	Prof. Dr. Stefan H. Heinemann
Johanna Langner	PhD <sup>6</sup>	Prof. Dr. Stefan H. Heinemann
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Umidakhon Makhmudova	MD	Prof. Dr. Otmar Huber
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Zhennan Ye	PhD	Prof. Dr. Otmar Huber

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### JENA

Name	Position	Supervisor
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Andrea Bock	PhD	Prof. Dr. Christian Hübner
Sarah Ali Elam Elasmfour	MD	Prof. Dr. Regine Heller
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Christian Hayn	PhD <sup>6</sup>	Dr. Julia von Maltzahn
Vjollca Jahiu	MD	Prof. Dr. Christian Hübner
Dhanalakshmi Jothi	PhD	Prof. Dr. Otmar Huber
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Thilo Philipp	PhD	Prof. Dr. Lars-Oliver Klotz
Nasrin Haghazari Sadaghiani	PhD	Prof. Dr. Regine Heller
Rexhep Sahatçiu	MD	Prof. Dr. Otmar Huber
Mona Katrin Schurig	PhD <sup>6</sup>	Prof. Dr. Christian Hübner
Sarah Tauber	PhD <sup>6</sup>	Prof. Dr. Lars-Oliver Klotz
Elina Wiechens	PhD <sup>6</sup>	Prof. Dr. Steve Hoffmann
Andreas Will	PhD <sup>6</sup>	Jun.-Prof. Dr. Florian Meier-Rosar

<sup>6</sup> Associated doctorand

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Yazan Dalilah	PhD	Prof. Dr. Andreas Simm
Arooj Fatima	PhD	Prof. Dr. Claudia Großmann
Maira Tariq	PhD	Prof. Dr. Thomas Hollemann / Dr. Matthias Jung
Theresa Hofmeister	PhD	Prof. Dr. Andrea Henze
Merve Kuru-Schors	PhD <sup>6</sup>	Prof. Dr. Andreas Simm
Rebecca Rosenstengel	MD	Prof. Dr. Rüdiger Horstkorte
Silvia Leticia Monge Rodríguez	PhD	Prof. Dr. Anne Navarrete Santos

<sup>6</sup> associated doctorand

\*this list is still not complete, for updates please see our homepage

## JENA

Name	Position	Supervisor
Anne Sophie Scheller	PhD	Prof. Dr. Lars-Oliver Klotz
Mariam Kareli	PhD	Prof. Dr. Christian Hübner
Anogh Muthukumar	PhD	Prof. Dr. Stefan H. Heinemann
Shivani Prabhu	PhD	Prof. Dr. Regine Heller
Pauline Förster	PhD	Prof. Dr. Otmar Huber
Tornike Nasrashvili	PhD	Dr. Christoph Kaether
Amit Kumar Sahu	PhD	Dr. Alessandro Ori
Julian Herpell	MD	Prof. Dr. Regine Heller
Niklas Krafczyk	PhD <sup>6</sup>	Prof. Dr. Lars-Oliver Klotz

<sup>6</sup> associated doctorand  
 \*this list is still not complete, for updates please see our homepage

*ProMoAge* is embedded in an excellent qualification environment in which age research is already well established. The participating universities feature graduate academies with graduate schools covering topics of molecular and clinical medicine and life sciences.



[www.ingra.uni-halle.de](http://www.ingra.uni-halle.de)

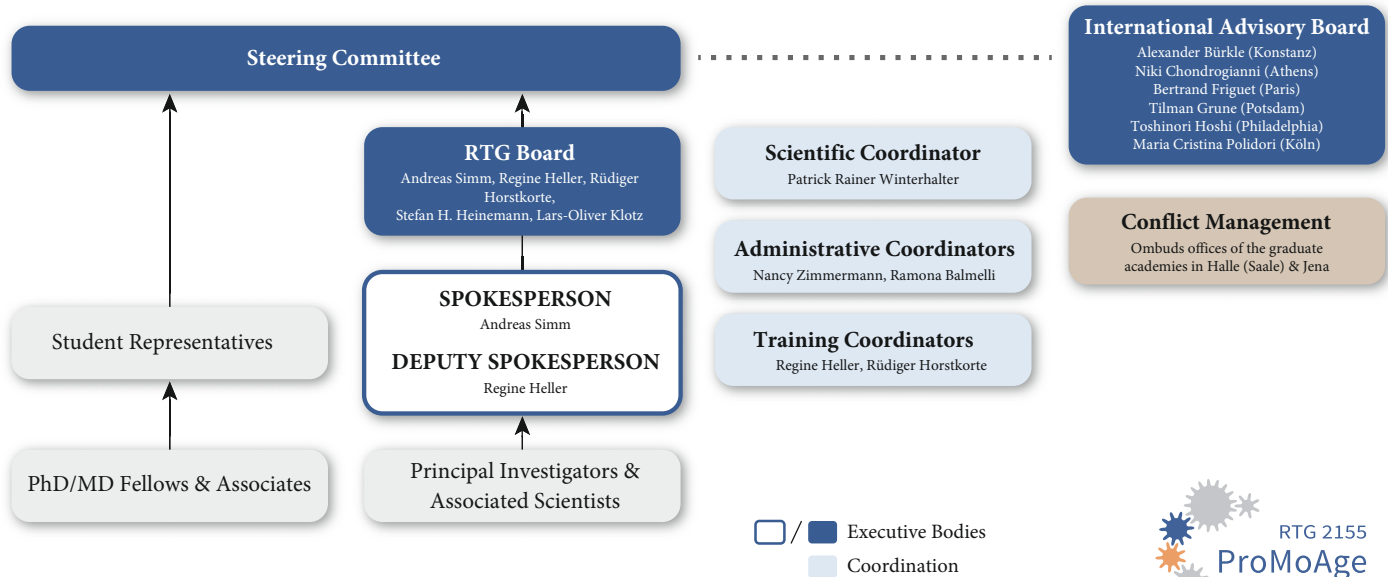
- Hallesches Promotionskolleg Medizin (HAPKOM)
- MeCoSa: Mentoring- & Coachingprogramm Sachsen-Anhalt



[www.uni-jena.de/Graduierten\\_Akademie](http://www.uni-jena.de/Graduierten_Akademie)

- Jena School Molecular Medicine (JSMM)
- Leibniz Graduate School on Aging (LGSA)

## RTG 2155 Protein Modification: A Key Mechanism for



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