

Available techniques	Responsible scientist
<ol style="list-style-type: none"> 1. LC/MS-practical 2. Workup-amino acid modifications 	<p>Marcus A. Glomb</p>
<ol style="list-style-type: none"> 1. Cardiovascular animal techniques (tail cuff invasive blood pressure, ECG, Echo) 2. Droplet digital PCR 	<p>Claudia Großmann</p>
<ol style="list-style-type: none"> 1. Monitoring of cell states with genetically-encoded fluorescence sensors 2. Electrophysiological approaches to characterise functional states of membrane proteins 	<p>Stefan H. Heinemann</p>
<ol style="list-style-type: none"> 1. Endothelial cells: preparation, culture and functional characterisation 2. Replicative and premature senescence: models and markers 3. Analysis of protein degradation systems (proteasome, autophagy) and glucose and fatty acid metabolism 	<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"> 1. Histological analyses of different tissues (dissection, embedding, cryosections, histological stainings, immunofluorescence analyses) 2. Investigation of stem cell function 	<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"> 1. Current techniques for application of human iPS cells 2. Tools and applications for psychiatry genetics 	<p>Matthias Jung</p>

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Analysis of Wnt/ β -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