

Poster session 1 (Monday, 7 September 2026, 15:45-16:45)

Seminar room A (Chair: C. Tulotta)

- 1 Conditional ablation of the mesenteric capillary network by arterial endothelial depletion of VEGF-C**, Salome Barbakadze, *European Institute for Molecular Imaging, Uni Münster*
- 2 Specific PET-imaging of bacterial infections using novel carbohydrate-based imaging probes**, Yannick Dederich, *Institute of Medical Microbiology, University Hospital Münster*
- 3 Establishment of an orthotopic RCC model in BALB/c mice and biodistribution of [⁶⁸Ga]Ga-OncoCAIX**, Hendrik Dinkel, *Department of Urology and Pediatric Urology, University Hospital Münster & European Institute for Molecular Imaging, Uni Münster*
- 4 Combating sepsis – IRF8 shapes the fate of immune-modulatory CD163⁺ macrophages**, Till Jordan, *Institute of Immunology, Uni Münster*
- 5 The role of Neuropilin-1 on lung macrophages during pulmonary inflammation**, Aileen Faist, *Department of Anaesthesiology, Intensive Care and Pain Medicine, University Hospital Münster*

Seminar room B (Chair: S. Kumar)

- 6 Deciphering the immune mechanisms of influenza vaccines on the innate immune response**, Josel Nicolai Huch, *Institute of Immunology, Uni Münster*
- 7 Identification and characterization of novel binders of the alarmin S100A8/A9**, Stefan Jäger, *Institute for Biology, University of Hohenheim*
- 8 *In vivo* assessment of endothelial permeability in a murine model of acute kidney injury using multimodal, size-controlled aza-BODIPY nanoparticles**, Sahar Emami, *Clinic for Radiology, University Hospital Münster & Max Köyer, Institute of Organic Chemistry, Uni Münster*
- 9 From hypoxia to inflammation – mapping immune dynamics in a novel stroke model**, Meike H. Keuters, *European Institute for Molecular Imaging, Uni Münster*
- 10 Investigation of redox mechanisms in glutamine-dependent endotoxin tolerance**, Sebastian Knab, *Institute of Immunology, Uni Münster*

Seminar room D (Chair: Y. Kusche)

- 11 Characterization of the PKR interactome using multimodal proteomic analysis**, Pia Madeleine Leipe, *Institute of Virology, Uni Münster*
- 12 Mechanisms of kidney injury-associated immunomodulatory responses affecting susceptibility to bacteria-induced pulmonary infection**, Liu Xiyang, *Department of Anaesthesiology, Intensive Care and Pain Medicine, University Hospital Münster*
- 13 Improving intravital multiphoton-excited fluorescence microscopy by fast adaptive optics**, Manuel Kunisch, *Faculty of Physics, Bielefeld University*
- 14 The mesentery as an immunological interface - a focus on its lymphatic vasculature**, Shambhavi Dwivedi, *European Institute for Molecular Imaging, Uni Münster*
- 15 Arp2/3 complex-dependent actin regulation protects the survival of tissue-resident mast cells**, Michael Mihlan, *Institute for Medical Biochemistry, ZMBE, Uni Münster*

Seminar room E (Chair: S. Sharma)

- 16 Neutrophil-derived chemiluminescence promotes photoswitchable protein recruitment to NETs**, Anna Shcherbakova, *Institute of Physiological Chemistry and Pathobiochemistry, Uni Münster*
- 17 Optogenetics as an approach for visualization of inflamed neutrophils and NETs**, Johanna Sibbel, *Department of Anaesthesiology, Intensive Care and Pain Medicine, University Hospital Münster*
- 18 MRI relaxation signatures of SPION-labelled immune cells – from nanoparticles to cells**, Surya Sivaji, *Clinic for Radiology, University Hospital Münster*
- 19 Investigation of bacteria derived outer-membrane-vesicles in the induction of systemic inflammation**, Jacqueline Sobocik, *Department of Anaesthesiology, Intensive Care and Pain Medicine, University Hospital Münster*
- 20 The role of Short-Chain Fatty Acids (SCFAs) in regulating the endothelial barrier in the context of human aortic aneurysm**, Giulia Sorrentino, *Department for Vascular and Endovascular Surgery, University Hospital Münster*

Poster session 2 (Tuesday, 8 September 2026, 11:45-12:45)

Seminar room A (Chair: C.P. Konken)

- 21 **Covalently binding antibodies for signal amplification in cell diagnostics**, Kristian Friedla, *Institute of Biochemistry, Uni Münster*
- 22 **Intracellular S100A9 regulates Mac-1-dependent neutrophil adhesion during sepsis**, Nathalia Frieling, *Department of Anaesthesiology, Intensive Care and Pain Medicine, University Hospital Münster*
- 23 **Rewiring innate immunity – how IRF8 deficiency reprograms monocyte and neutrophil functions during sepsis**, Janna Grimm, *Institute of Immunology, Uni Münster*
- 24 **K⁺-channel-mediated regulation of neutrophil migration and tumour immune infiltration in NSCLC**, Alexa Heuer, *Institute for Physiology II, Uni Münster*
- 25 **Simultaneous elemental and molecular imaging of drugs and contrast agents in tissue samples using LA ICP MS/APCI MS**, Lena Hiddeßen, *Institute of Inorganic and Analytical Chemistry, Uni Münster*

Seminar room B (Chair: tba)

- 26 **Investigation of metabolic adaptation and innate immune memory to inflammatory challenges using ER-HoxB8 monocytes**, Lisa Knörr, *European Institute for Molecular Imaging, Uni Münster*
- 27 **Exploring correlation between patrolling blood monocytes and time-lapse MRI signal**, Johanna Krimphove, *Clinic for Radiology, University Hospital Münster*
- 28 **The interplay between pyrin, PSTPIP1 and S100A8/A9 in autoinflammatory processes**, Kanishka Kumar, *Department of Anaesthesiology, Intensive Care and Pain Medicine, University Hospital Münster*
- 29 **Glucocorticoids and their influence on monocytes phagocytosis**, Yvonne Kusche, *European Institute for Molecular Imaging, Uni Münster*
- 30 **Development of novel radiotracers for molecular imaging of inflammatory processes targeting alarmin S100A9**, Marek Lakomy, *European Institute for Molecular Imaging, Uni Münster*

Seminar room D (Chair: tba)

- 31 **Dynamic Glucose Enhanced (DGE) MRI to assess renal glucose transport**, Ajay Peddi, *Clinic for Radiology, University Hospital Münster*
- 32 **Development of a small-animal PET/MRI compatible fluorescence microscope for simultaneous cell tracking**, Philipp Renn, *European Institute for Molecular Imaging, Uni Münster*
- 33 **BMnD - a generalized block-matching framework for poisson-aware n-dimensional denoising in biomedical imaging**, Lars Schiefelbein, *European Institute for Molecular Imaging, Uni Münster*
- 34 **Between AT-2 to AT-1: Intermediate lung organoids as a model for viral infection**, Saskia Hinse, *Immunology of Respiratory Tract Infections, University Clinic Gießen*
- 35 **Evaluation of a poly-ALFAtag reporter system as a basis for multiscale cell tracking using PET and fluorescence imaging**, Yannick Schröer, *European Institute for Molecular Imaging, Uni Münster*

Seminar room E (Chair: I. Aranda Pardos)

- 36 **Acute kidney injury is associated with altered renal glucose transporter expression**, Kathleen Susat, *Department of Anaesthesiology, Intensive Care and Pain Medicine, University Hospital Münster*
- 37 **Outer-membrane-vesicles as bacterial mediators of systemic inflammation**, Yannick Teschke, *Institute of Infectiology, ZMBE, Uni Münster*
- 38 **The lymphatic vasculature of the ocular surface -architecture and function of conjunctival lymphatics**, Femke Testroet, *European Institute for Molecular Imaging, Uni Münster*
- 39 **Specific imaging of bacterial infections via complex carbohydrates - transport efficiency and metabolic trapping**, Nico Thoma, *European Institute for Molecular Imaging, Uni Münster*
- 40 **The effect of vaccine adjuvants on the innate immune memory in monocytes**, Julia Voges, *Institute of Immunology, Uni Münster*
- 41 **Optimization of the effective specific activity of radiolabelled ALFA-nanobody**, Andreas Heinrichs, *European Institute for Molecular Imaging, Uni Münster*