



> 3rd



Inflammation & Imaging Symposium

Münster, Germany | Multiscale Imaging Centre 11–13 September 2023







Programme and list of posters



















Monday 11.09.2023

Session 1 Chair: Linda Brunotte

14:00	Welcome
14:10-14:40	Melanie Meersch-Dini: The effect of DAMPs and remote ischemic preconditioning on the prevention of acute kidney injury
14:40-15:10	Christian Bode: Cleaving critical illness into treatable traits - A role for the immune response?
15:10	Coffee break
	Session 2 Chair: Jan Rossaint
15:45-16:30	Session 2 Chair: Jan Rossaint Keynote – Mark Looney: Live imaging of immune cell migration in pulmonary lymphatics
15:45-16:30 16:30-17:15	· · · · · · · · · · · · · · · · · · ·
	Keynote – Mark Looney: Live imaging of immune cell migration in pulmonary lymphatics

Tuesday 12.09.2023		
	Session 3 Chair: Carlos Silvestre-Roig	
09:00-09:30	Matthias Gunzer: Mechanisms of immunosuppression after sterile tissue injury	
09:30-10:00	Hans-Uwe Simon: The molecular mechanism of NET formation	
10:00-10:30	Venizelos Papayannopoulos: Chromatin's life after death	
10:30	Coffee break	
	Session 4 Chair: Noelia Alonso Gonzalez	
11:00-11:30	Francesca Peri : Towards a dynamic quantitative understanding of neuronal-immune interactions in the brain	
11:30-12:00	Amanda W. Lund: Tracking CD8 T cell migration out of skin and melanoma	
12:00-12:30	Monika Prünster: E-selectin induced NLRP3 inflammasome activation in neutrophils	
12:30	Lunch	
	Session 5 Chairs: André Schreiber, Samriti Sharma	
13:30-13:40	Katharina Hellenthal, André Schreiber and Samriti Sharma : Clinician Scientist Programme CareerS & Medical Scientist Programme InFlame	
13:40-14:00	Flashlight Talks #1	
	Thilo von Groote : Biomarker-based precision medicine for acute kidney injury in critically ill patients – moving from bench to bedside	
	Anna Kuntze: Functional role of different BAF complexes in synovial sarcoma differentiation Julian Zimmermann: Dietary treatment of mice for antioxidant lipid replacement using	
	deuterated polyunsaturated fatty acids	
14:00-14:10	Science Slam #1:	
	Philipp Berger : Fever sleuths - Unraveling red flags in pediatric puzzles	
14:10-14:30	Flashlight Talks #2 Marcel Kemper: Exploring neuroinflammatory properties of tumor cell-derived extracellular	
	Marcel Religion . Exploring flearonnianinatory properties of tumor cell derived extracellular	
	vesicles that promote brain metastasis in lung cancer	

microenvironment in breast cancer

14:30-14:40	Science Stam #2:
	Jan Ehrchen: Doped hogs

Coffee break 14:40

Session 6 Chair: Nicholas Schwab

15:30-16:00	Manuel A. Friese: Determinants of neuronal vulnerability to inflammation
16:00-16:30	Ulrich Flögel : New building blocks of fluorine MRI for non-invasive assessment of cardiovascular inflammation
16:30-17:00	Holger Eltzschig: The hypoxia-inflammation link during lung injury

Wednesday 13.09.2023

Session 7 Chair: Seraphine Wegner

09:00-09:30	Britta Engelhardt: Imaging central nervous system immune privilege
09:30-10:00	Alexander Flügel: Multiscale and multimodal imaging of autoimmune neurodegeneration
10:00-10:30	Jing Guo: Biomechanical characterization of inflammatory processes with magnetic resonance elastography
10:30	Coffee break
	Session 8 Chair: Melanie Meersch-Dini

11:00-11:30	Peter Pickkers: Neuro-inflammation and its relation to cognitive outcomes
11:30-12:00	Frauke Alves: Multimodal and nanoparticle based imaging strategies to assess inflammatory processes
12:00	Poster award & closing remarks

Posters

NO	Name	Poster title	Floor
1	Marina Kardell	Role of Myo9b RhoGap in integrin activity regulation and neutrophil recruitment	GF
2	Joana Nowacki	The impact of increased low density neutrophil levels on the inflammatory response after cardiopulmonary bypass surgery	GF
3	Ann-Katrin Wienkamp	The role of neutrophils during Yersinia pseudotuberculosis infection	GF
4	Anna-Lena Börsch	Understanding stroma cells of rodent meninges at single cell resolution	GF
5	Juela Cufe	Conversion of extracorporeally-derived PET and MRI arterial input functions for dual pharmacokinetic modeling using gadovist and [18F]F-PSMA-1007	GF
6	Nadine Bauer	Analysis of vascular modulation and tumor hypoxia in a mouse model of glioma	GF
7	Felix Dewies	Development of novel radiotracers for molecular imaging of inflammatory processes targeting alarmin S100A9	GF
8	Charlotte Ganter	Three-dimensional and molecular characterization of the human ductular reaction in hepatic disease	GF

NO	Name	Poster title	Floor
9	Lea Göbel	Specific PET-imaging of bacterial infections utilizing maltodextrin based radiotracers	1 st F
10	Nils Marquardt	Simulation of particle paths for single cell tracking in positron emission tomography	1 st F
11	Thomas Kirse	Superparamagnetic nanoparticles with phosphorescent complexes as hybrid contrast agents: Integration of MRI and time-resolved photoluminescence lifetime imaging micro(spectro)scopy	1 st F
12	Amarnath Bollu	Light-activated translation of mRNA in cells	1 st F
13	Duygu Merve Çalışkan	Characterization of pathogenicity factors of IBV/2018/Münster isolates from 2017/18 influenza season	1 st F
14	Saskia Sophie Hinse	Advanced models to study cell type specific host responses to infections with Influenza A viruses and SARS-CoV-2 in the human lung	1 st F
15	Sascha Beutler	Motion correction in fluorescence microscopy	1 st F
16	Robin Rexeisen	Multi-scale image registration by combining information theory and deep learning	1 st F
17	Vikramjeet Singh	Neutrophil extracellular traps melt Peyer's patches following stroke and myocardial infarction	1 st F
18	Mathis Richter	Neutrophils as novel biomarkers in myocardial infarction	1 st F
19	Bruna Caroline Véras de Carvalho	Soluble CD163 modulates the immune response in bone marrow- derived macrophages	1 st F
20	Cindy Pamela Ulloa Guerrero	Interaction of stromal MadCAM-1 cells and metallophilic macrophages	1 st F
21	Linda Groeneweg	CD169+ macrophages contribute to lymphocyte aggregation in chronically inflamed CNS tissue	1 st F
22	Ricarda Jürgens	Metabolic priming of monocytes during inflammation	1 st F
23	Theresa Karagöz	Immune modulating activities of the cell penetrating Shigella effector protein IpaH7.8	1 st F
24	Laura Schmitz-Gielsdorf	Impact of myelin phagocytosis on myeloid cells and its effect on human oligodendrocytes	1 st F
25	Ting Fu	Performance-impacting visual network dysregulation in early mouse and human neuroinflammation	1 st F
26	Luis Correa	Role of laminin 411 in adipose tissue homeostasis, macrophage dynamics and inflammation during obesity	1 st F
27	Elisa Terenzani	Molecular mechanisms of leukocyte extravasation across endothelial basement membranes	1 st F
28	Merve Ilhan-Bayrakci	Resolving interindividual dynamics of slow wave events in human EEG/fMRI recordings	1 st F
29	Maria Micheva	Poloxamer-gelatine hydropgels for all-optical sensing	1 st F
30	Lauritz Klünder	Quantifying iron-oxide loaded monocytes in magnetic resonance imaging	1 st F
31	Chris Lippe	Quantification of interfering signals in CEST imaging through enhanced multi-pool Lorentzian fitting	1 st F
32	Kira Engeroff	Rebalancing cortical neuronal hyperactivity as a new treatment strategy in neuroinflammation	1 st F