

26th Meeting on T Cells Subsets and Functions



27th June & 28th June 2024







Conference Venue:

Aula of the Old University, Lahntor 3, 35037 Marburg

Organizers:

Prof. Dr. Magdalena Huber / Philipps University Marburg Prof. Dr. Tobias Bopp / Joh. Gutenberg-University Mainz

Thursday, 27th June 2024

12:00	"Welcome Address" by Magdalena Huber & Tobias Bopp
	TREGS REGULATION AND FUNCTION Chair: Prof. Dr. Ingo Schmitz, Ruhr-University Bochum, Molecular Immunology
12:15	Deciphering the metabolic control of Treg function Janika Härm, Luxemburg Institute of Health, Experimental and Molecular Immunology
12:30	Regulation of Treg cell subsets and function by the atypical IkB protein Bcl-3 Mary Christina Cynthia Rohini Raj, University Medicine Mainz, Institute for Molecular Medicin
12:45	CREB regulates Foxp3 ⁺ ST-2 ⁺ T _{regs} with enhanced IL-10 production Sudheendra Hebbar Subramanyam, RWTH Aachen University Hospital, Centre for Rare Diseases
13:00	T cell receptor dependent activation of Lgp130+ T cells causes unrestricted Th17 cell formation and severe lung inflammation Emily Huth, University Medical Center Hamburg-Eppendorf, Department for Immunology
13:15	Interleukin-6 and Treg cells: friends or foes? David Uhlfelder, Johannes Gutenberg University Mainz, Institute for Molecular Medicine
13:30	Generation of human autoreactive Tregs by TCR replacement Nora Kohlstedt, University Hospital Schleswig-Holstein, Institute of Immunology

13:45–14:15 Break– please visit the stands of our sponsoring companies! VOTE for the NEW Chair of the AK T Zellen (Prof. Dr. Dr. Bertram Bengsch and Prof Dr. Dietmar Zehn)

	REGULATION OF T CELL DEVELOPMENT, ACTIVATION AND MEMORY FORMATION
	Chair: Prof. Dr. Andreas Krueger, J-L University Gießen, Molecular Immunology
14:15	Comprehensive T Cell profiling by mass cytometry reveals exhaustion phenotypes and altered cytokine production of mucosal CD8 T cells in active UC
	Lena S. Mayer, University Medical Center Freiburg, Hepatology, Endocrinology, and Infectious Disease
14:30	MicroRNA miR-181 controls development of conventional $\alpha\beta$ T cells
	Sean Seegert, Justus-Liebig-University Giessen, Molecular Immunology
14:45	Controlling DNA-deletion sizes and chromosomal aberrations in CRISPR-edited human T cells by the strength of TCR stimulation and pifithrin- α
	Kathrin Schumann, Technical University of Munich, Immunology and Hygiene
15:00	A distinct phase of CD8 T cell priming selects high affinity clones and scales effector cell formation.
	Katarzyna Jobin, Julius-Maximilians-University Würzburg, Institute of Systems Immunology
15:15	SLAMF7 (CD319) is a key regulator of CD4 T-Cell differentiation
	Irina Han, Otto-von-Guericke-University Hospital Magdeburg, Experimental Pediatrics and Neonatology
15:30	The role of PRMT1 in T cell-mediated immune responses
	Inga Shcheglova, Philipps-University Marburg, Institute for Molecular Biology and Tumor Research
15:45	JIA T cells dispose mechanism to keep ferroptosis in check
	C.T. Neullens, RWTH Aachen University, Faculty of Medicine
16:00	Diversity of circulating and bone marrow-resident memory T cells
	Emilia Schneider Revueltas, German Rheumatism Research Centre Berlin (DRFZ)
16:15	T cells in lockdown - identification, characterization and regulation of human tissue resident T cells
	Christina Zielinski, Leibniz Institute for Natural Product Research and Infection Biology

16:30 – 17:00 Break – please visit the stands of our sponsoring companies!

TUMOR IMMUNE RESPONSE Chair: Prof. Dr. Karin Loser, University of Oldenburg, Immunology 17:00 In vitro induction of exhaustion in human CD8+ T cells via mitochondrial inhibition and ectopic TOX expression Bettina Bernard, Technical University of Munich, Inst. for Medical Microbiology, Immunology and Hygiene 17:15 GDF-15 – a cytokine and its immunomodulatory potential Beatrice Haack, University Hospital Würzburg, Department of Gynecology and Obstetrics 17:30 Cytotoxic CD4 T cells for direct targeting of melanoma cells Alicia Brüggemann, University Hospital Essen, Clinic for Dermatology, Molecular Tumor Immunology 17:45 Commensal Metabolites inspire metabolic-epigenetic reprogramming in CAR T cells engineering Maik Luu, Würzburg University Clinic, Medical Clinic and Polyclinic II T cells in testicular germ cell tumors: New evidence of Treg and Tfh as functional players 18:00 Daniela Fietz, Justus-Liebig-University Giessen, Dep. of Veterinary Anatomy, Histology and Embryology

18:15 – 18:30 Break – please visit the stands of our sponsoring companies!

18:30 Keynote Talk: Prof. David Masopust, University of Minnesota

"MEMORY CD8 T CELLS: QUANTITY, QUALITY AND LOCATION"

Friday, 28th June 2024

TFH, TH17 CELLS AND AUTOIMMUNITY OF THE CENTRAL NERVOUS SYSTEM

Chair: Prof. Dr. Monika Brunner-Weinzierl, Otto-von-Guericke-University Hospital Magdeburg, Experimental Paediatrics and Neonatology

08:30	Oligoclonal CD4 ⁺ CXCR5 ⁺ T cells with a cytotoxic phenotype appear in tonsils and blood Friederike Berberich-Siebelt, Julius-Maximilians-University Würzburg, Institute of Pathology
08:45	TGFβ specifies Tfh versus Th17 cell fates of murine CD4 ⁺ T cells through c-Maf Luisa Bach, University Hospital Bonn, Medical Clinic III
	Luisa Bacii, Oniversity Hospitai Boini, Medicai Ciliic III
09:00	Th17 cells requires the DNA repair protein XPC to control oxidative DNA damage Jefferson Antônio Leite, Johannes Gutenberg University Mainz, Institute for Molecular Medicine
09:15	CD96 – a checkpoint inhibitor of effector T-cell responses during autoimmune neuroinflammation
	Sylvia Heink, Klinikum rechts der Isar, Technical University of Munich, Experimental Neuroimmunology
09:30	Novel K-Opioid Receptor Agonists for the Treatment of Neuroinflammation Katharina Hoffmann, University of Oldenburg, Institute of Immunology
09:45	Uncovering the brain-homing nature of T cells at single-cell resolution in people with multiple sclerosis Jasper Rip, Erasmus MC, MS Center ErasMS, Department of Immunology
10:00	Deciphering the altered T-cell response against EBV in MS through disease-associated HLA alleles Sanne Reijm, Erasmus MC, MS Center ErasMS, Department of Immunology
10:15	A tissue-specific molecular program governs the formation and function of brain-resident CD8+ T cells Tarek Elmzzahi, University Hospital Bonn, DZNE

10:30 – 11:00 Break – please visit the stands of our sponsoring companies!

NON-CONVENTIONAL T CELLS

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	Chair: Prof. Dr. Immo Prinz, MHH Hannover, Institute of Immunology	
11:00	The role of $\gamma\delta T$ cells in autoantibody-mediated blistering diseases of the skin	
	Gabriela Farias Gubert, University of Würzburg, Institute for Systems Immunology	
11:15	$\gamma\delta$ T cell profiling in a cohort of preterm infants reveals elevated frequencies of CD83+ $\gamma\delta$ T cells in sepsis Sarina Ravens, Hannover Medical School, Institute of Immunology	
11.30	Ligand identification for an invariant V δ 1+ $\gamma\delta$ T cell receptor in the context of CMV infection	
	Rixa-M. Köhn, University Medical Center Hamburg-Eppendorf	
11:45	Deciphering the tumor-promoting activity of NKG2D/NKG2D-ligand system in ovarian cancer	
	Celina Meena, Philipps-University Marburg, Institute for Tumor Immunology	
12:00	Spectral cytometry reveals reduced MAIT17 frequencies in PDAC patients compared to HD	
	Teresa Ruckenbrod, Philipps-University Marburg, Institute of Systems Immunology	
12:15	Canine peripheral non-conventional TCR $\alpha \beta^+$ CD4 $^-$ CD8 α^- double-negative T cells show T helper 2-like and	
	regulatory properties	
	Maria Eschke, Leipzig University, Center for Biotechnology and Biomedicine, Institute of Immunology	
12:30	Rixa-M. Köhn: Introduction for Young Immunologists (YI) group to support early-career scientists	

ALLERGY, ATOPY AND INFECTION

Chair: Prof. Dr. med. Georg Gasteiger, Würzburg University Clinic, Institute for Systems Immunology II

12:45	Tcf7 ^{hi} stem-like cells give rise to Th2 effector cells in allergic asthma Emilia Vendelova, Max Planck Research Group at the Julius-Maximilians-Universität Würzburg, Institute of Systems Immunology
13:00	Phenotypically and functionally distinct Th2 cell subpopulations in patients with birch pollen allergy Jasper Einfeldt, Philipps-University Marburg, Department of Dermatology and Allergology
13:15	Microbiota-specific T cell responses in inflammatory skin disease Laura Rathjens, Kiel University, Institute of Immunology
13:30	Comparison of Host Adaptive Immunological Responses to SARS-CoV-2 Infection and Vaccination in Kenyan and German Populations Tabitha Kavuli Itotia, Paul-Ehrlich-Institute, Federal Institute for Vaccines and Biomedicines
13:45	A small recap of Lassa fever T cell research David M. Wozniak, Bernhard Nocht Institute for Tropical Medicine, Department of Virology

Sponsoring





AWARD FOR BEST TALK!





14:00



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