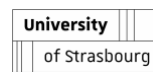




6th Annual Meeting OF THE UPPER RHINE IMMUNOLOGY (URI) GROUP

OCTOBER 21, 2022

Karlsruhe Institute of Technology | Campus South | Englerstraße 11 | 76131 Karlsruhe, Germany



The URI meeting will take place in person. Please note the following rules for a safe conference:



A medical or FFP2 mask must be worn inside the hall and conference room. Please bring your own masks to the meeting.



Please try to maintain an appropriate distance between you and others if possible.



Wash and disinfect your hands thoroughly and regularly.



In case of sickness or if you experience any symptoms please stay at home.

These rules can change according to the situation and the rules and recommendations of the government. In case of changes, these rules will be updated and communicated with you.

Program

21 October 2022

09:00 REGISTRATION, POSTER SET-UP, COFFEE AND SNACKS

09:30 **Welcome**

Véronique Orian-Rousseau

Karlsruhe Institute of Technology, Karlsruhe

09:45 **Paracrine Mechanisms of Therapy Resistance**

Prof. Dr. Florian Greten

Director Georg-Speyer-Haus, Institute of Tumor Biology and Experimental Therapy, Frankfurt

SESSION 1 CHAIRS: VÉRONIQUE ORIAN-ROUSSEAU (KARLSRUHE) / GENNARO DE LIBERO (BASEL)

11:15 **The multifaceted immunologic and molecular profiling of multivisceral human and murine colorectal cancer**

Mauerer, Bernhard (Institute of Molecular Medicine and Cell Research, Freiburg)

11:30 **Bone marrow-derived cells impact the metastatic process in pancreatic cancer**

Mehner, Lisa-Marie (Institute of Biological and Chemical Systems-Functional Molecular Systems (IBCS-FMS), Karlsruhe Institute of Technology)

11:45 **Specific targeting of dendritic cells using plant-derived Virus Like Particles: towards the development of an innovative anti-tumor vaccine**

Guingand, Armelle (Institut de Biologie Moléculaire et Cellulaire (IBMC), Strasbourg)

12:00 **COVID-19 booster vaccination elicits a transient effector CD8+ T cell response while conserving virus-specific memory T cells**

Gräser, Anne (University Medical Center, Freiburg)

12:15 **The human cytomegalovirus (HCMV) glycoprotein RL11/gp34 antagonizes C-reactive protein (CRP)-mediated activation of FcγRI/CD64**

Seer, Johanna (University Medical Center, Freiburg)

12:30 LUNCH BREAK & POSTER PRESENTATION

12:40 Poster presentation 1-20

13:20 Poster change

13:25 Poster presentation 21-40

SESSION 2 CHAIRS: SUSAN CHAN (STRASBOURG) / WOLFGANG SCHAMEL (FREIBURG)

14:00 Primitive macrophages: unseen string-pullers of the late immune system development

Monticelli, Sara (Institute of Genetics and of Molecular and Cellular Biology (IGBMC), Strasbourg)

14:15 Microbial triggering of myelin-specific immune cells in the gut drives central nervous system inflammation

Siewert, Lena (University Hospital Basel and University of Basel)

14:30 A particular HDAC: cytoplasmic Histone Deacetylase 6 regulates antimicrobial functions and immunometabolism in macrophages

Kapetanovic, Ronan (Friedrich Miescher Institute for Biomedical Research, Basel)

14:45 Contact-dependent activation of TGF- β induces adaptation of macrophages to peripheral nerves

Döring, Clarisaa (University Medical Center, Freiburg)

15:00 HLA antibody affinity assessment: from HLA-specific monoclonal antibodies to donor-specific HLA antibodies (DSA) in patient sera

Hönger, Gideon (University of Basel, Basel)

15:15 COFFEE BREAK & POSTER PRESENTATION 21-40

SESSION 3 CHAIRS: FRANK BREITLING (KARLSRUHE) / CHRISTOPHER MUELLER (STRASBOURG)

16:00 H3K27me3 marks in thymic epithelial cells: Does dose matter for development and function?

Kusch, Anja (University Children's Hospital, Basel)

16:15 Optogenetics: Oscillatory TCR stimulation differently impacts on the different signalling pathways

Ehret, Anna (Signalling Research Centres BIOS and CIBSS, University of Freiburg, Freiburg)

16:30 Study of TSLP-TSLPR signaling through dendritic cells in driving skin T cell responses

Meyer, Pierre (Institute of Genetics and Molecular and Cellular Biology (IGBMC), Strasbourg)

16:45	CNS INFECTION WAKENS A DORMANT AUTOIMMUNE B RESPONSE KIM, HYEIN (UNIVERSITY HOSPITAL BASEL AND UNIVERSITY OF BASEL)
17:00	Tissue-engineered human skin as a new model to study arboviral cutaneous infection Voisin, Benjamin (Institute of Molecular and Cell Biology (IBMC), Strasbourg)
17:15	Distinct changes in endosomal composition promote NLRP3 inflammasome activation Zhang, Zhirong (Institute of Genetics and Molecular and Cellular Biology (IGBMC), Strasbourg)
17:30	CLOSING REMARKS
17:45	GET TOGETHER

Confirmed Posters.

- 1. Nucleobase adduct-containing metabolites are MR1 ligands that stimulate self-reactive MR1T cells**
Vacchini, Alessandro
Experimental Immunology, Department of Biomedicine and Department of Chemistry, University of Basel (Basel)
- 2. A novel immune evasive effect on B cells is mediated by the multi-leukocyte manipulator E3-49K of human adenoviruses**
Hildenbrand, Andreas
Institute of Virology, University Medical Center Freiburg (Freiburg)
- 3. Flt1 determines neuronal regeneration by titrating Vegf levels and innate immune response at the neuro-vascular interface**
Michael, Andria
Department of Cell and Developmental Biology, Karlsruhe Institute of Technology (Karlsruhe)
- 4. Deciphering the implication of lymphoid organ stromal cells in autoimmune responses during Systemic Lupus Erythematosus**
Airoldi, Annaïck
CNRS UPR3572 Immunologie, Immunopathologie et Chimie Thérapeutique, Institut de Biologie Moléculaire & Cellulaire (IBMC), Université de Strasbourg (Strasbourg)
- 5. Identification of rheumatoid arthritis-specific extracellular vesicles**
Kurth, Stefanie - Tiande, Andre
Experimental Rheumatology, University Hospital Basel and Department of Biomedicine, University of Basel (Basel)
- 6. Characterizing the role of exhausted T cells in hepatocellular carcinoma**
Mesesan, Andreea
University Medical Center Freiburg (Freiburg)
- 7. Impact of the removal of CD44 in pancreatic cancer-associated fibroblasts on tumor growth and metastasis**
Treffert, Sven Máté
Institute of Biological and Chemical Systems, Karlsruhe Institute of Technology (Karlsruhe)
- 8. CD169+ macrophages in lymph node and spleen critically depend on dual RANK and LT β R signaling**
Lavanant, Alice
Immunologie, Immunopathologie et Chimie Thérapeutique - CNRS UPR 3572
Université de Strasbourg and Institut de Biologie Moléculaire et Cellulaire (IBMC) (Strasbourg)

9. **Involvement of LC3-conjugation to single membrane in B-cell antigen receptor trafficking**
Lucas, Julie
Centre de Recherche en Biomédecine de Strasbourg (CRBS), Université de Strasbourg (Strasbourg)
10. **Vaccine-elicited CD4 T cells prevent the deletion of antiviral B cells in chronic infection**
Pinschewer, Daniel
Division of Experimental Virology, Department of Biomedicine, University of Basel (Basel)
11. **Niche-specific metabolic plasma cell heterogeneity in lupus-prone NZB/W F1 lupus mice**
Schäfer, Anna-Lena
Department for Rheumatology and Clinical Immunology, University Hospital (Freiburg)
12. **CD44 as a regulator of colorectal cancer cell plasticity**
Sonnentag, Steffen
Institute of Biological and Chemical Systems – Functional Molecular Systems (IBCS-FMS), Karlsruhe Institute of Technology (Karlsruhe)
13. **Cross-talk between the immune system and the nervous system in *Drosophilamelanogaster***
Cattenoz, Pierre
Institute of Genetics and Molecular and Cellular Biology (IGBMC), Strasbourg (Strasbourg)
14. **Effect of therapeutic peptide P140 in a mouse model of gout arthritis**
Mastrippolito, Dylan
CNRS-University of Strasbourg, Biotechnology and cell signalling, UMR7242, Illkirch, France/ Strasbourg Drug Discovery and Development Institute (IMS), Institut de science et d'ingénierie supramoléculaires (Strasbourg)
15. **Identification of cell-intrinsic regulators of T cell population homeostasis**
Zhang, Haiyan
Biozentrum, University of Basel (Basel)
16. **NOD-1 Agonist Synergize with CD40L to Induce Proliferation and Plasma Cell Differentiation of Mouse B Cells especially in CD23^{high} B cells**
Seguin, Cendrine
Université de Strasbourg, Strasbourg
17. **T Cell Exhaustion in STING Gain-of-Function Mice**
Freytag, Damien
Université de Strasbourg, Strasbourg (Strasbourg)
18. **Allogenic HER2-CAR T cells overcome intrinsic trastuzumab resistance *in vitro* and *in vivo* in a preclinical model of breast cancer**
Walter, Romina (Charles River, Freiburg)

- 19. Impact of Low Dietary Vitamin D Intake on Immunoregulation and Disease Pathology in Lupus-prone Mice**
Kraemer, Antoine
Department of Rheumatology and Clinical Immunology, Medical Center - University of Freiburg, Faculty of Medicine, University of Freiburg (Freiburg)
- 20. Targeting B and T lymphocyte attenuator (BTLA) regulates lupus disease development in NZB/W mice**
Gheraldi, Lea
Institut de Biologie Moléculaire et Cellulaire (IBMC), University of Strasbourg (Strasbourg)
- 21. Distinct humoral response in Africans and Caucasians: consequence on vaccine response?**
Lin, Li-Yun
Université de Strasbourg, ED414, Inserm, U1109, UDS - Institut de Virologie (Strasbourg)
- 22. Targeting the coronin 1 signaling pathway for the prevention of autoimmunity**
Ruer-Laventie, Julie
Biozentrum, University of Basel (Basel)
- 23. Employing scRNAseq and multiplexed imaging to dissect mechanisms of resistance to cancer immunotherapy**
Fusi, Irene
University of Basel (Basel)
- 24. Macrophage origin during mycobacterial granuloma formation in the liver**
Neuber, Jana
Institute for Immunodeficiency, CCI Center for Chronic Immunodeficiency
University Medical Center Freiburg (Freiburg)
- 25. Function of the Ikaros transcription factors in hematopoietic stem cells**
Taroni, Chiara
Institute of Genetics and Molecular and Cellular Biology (IGBMC), Strasbourg (Strasbourg)
- 26. Pulmonary macrophage heterogeneity and mycobacteria infection**
Pantouloufos, Nikos
University Hospital, Basel (Basel)
- 27. The influence of Pseudomonas aeruginosa lectin LecB on dendritic cell migration and T cell activation in draining lymph nodes**
Yubing, Guo
Immunologie, Immunopathologie et Chimie Thérapeutique - CNRS UPR 3572
Université de Strasbourg and Institut de Biologie Moléculaire et Cellulaire (IBMC), (Strasbourg)

- 28. Tenascin-C orchestrates an immune suppressive tumor microenvironment harboring novel targeting opportunities**
Orend, Gertraud
INSERM U1109, University of Strasbourg, Strasbourg (Strasbourg)
- 29. Contribution of CD44 expressed on tumor-associated macrophages to progression of pancreatic cancer**
Ibrahim, Nagwa
Institute of Biological and Chemical Systems – Functional Molecular Systems (IBCS-FMS),
Karlsruhe Institute of Technology (Karlsruhe)
- 30. From NSCLC tissues to tumoroids with its TME**
Lê, Hélène
INSERM, UMR 1260 (Strasbourg)
- 31. Investigating the function of coronin proteins in immune cells: Redundancy or Cooperation?**
D’Otolò, Viviana (Basel)
Biozentrum, University of Basel (Basel)
- 32. Local antigen acquisition by B cells in brain and its potential to cause an autoimmune response**
Schneider, Mika
Department Biomedizin, University of Basel (Basel)
- 33. Function of the RANK-RANKL axis in B cell associated stroma and LN formation**
Igamberdieva, Zinaida
Immunologie, Immunopathologie et Chimie Thérapeutique - CNRS UPR 3572
Université de Strasbourg and Institut de Biologie Moléculaire et Cellulaire (IBMC),
(Strasbourg)
- 34. Epidermal maintenance of Langerhans cells relies on autophagy-regulated lipid metabolism**
Sal-Carro, Raquel
Institut de Biologie Moléculaire et Cellulaire (IBMC), University of Strasbourg (Strasbourg)
- 35. Tenascin-C regulates TRAIL function in the NT193 model and breast cancer**
Li, Chengbei (Strasbourg)
INSERM U1109, University of Strasbourg, Strasbourg (Strasbourg)
- 36. The role of Sialoglycans and Sia-binding immunoglobulin-like lectins (Siglecs) in modulation of human myeloid-derived suppressor cells (MDSCs) in the tumor microenvironment**
Wieboldt, Ronja (Basel)
Laboratories for Cancer Immunotherapy, Department of Biomedicine, University Hospital and University of Basel, Basel, Switzerland
2Division of Oncology, Department of Theragnostics, University Hospital Basel (Basel)

37. Targeted deletion of Cd44 from pancreatic stellate cells impacts tumor growth

Heneka, Yvonne

**Institute of Biological and Chemical Systems – Functional Molecular Systems (IBCS-FMS),
Karlsruhe Institute of Technology (Karlsruhe)**

38. A coronin 1-dependent kin-to-kin density-sensing pathway defines T cell population size








Ndinyanka Fabrice, Tohnyui

Biozentrum, University of Basel (Basel)

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