

7th Annual Meeting of the  
**Upper Rhine Immunology  
(URI) Group**

Friday, 25th October

Maurice Müller Lecture Hall  
Biozentrum University of Basel

# PROGRAM



universität freiburg



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## OPENING OF MEETING

08:30	REGISTRATION, POSTER SET-UP, WELCOME COFFEE
09:00	WELCOME ANNOUNCEMENT AND OPENING OF MEETING <i>Anne-Katrin Pröbstel</i>
09:15	<i>Rektorin Schenker-Wicki</i>
09:30	KEYNOTE SPEAKER
10:15	COFFEE BREAK AND POSTER SESSION 1 <i>Discussion of posters 1-11</i>

## MORNING SESSION: TUMOR IMMUNITY

CHAIRS: Véronique Orian-Rousseau & Marta Rizzi

11:00	ALEXIA PAVLIDAKI, STRASBOURG <i>Targeting the MAtRix REgulating MOTif, MAREMO, induces anti-tumor immunity and tumor regression</i>
11:15	<del>GINA FIALA, FREIBURG</del> <b>UNABLE TO ATTEND</b> <del><i>CD8alpha-beta-expressing gammadelta T cells: a stable subset of interferon-gamma producers which expands in IL-7R/STAT5B-driven neoplasms</i></del>
11:30	IRENE FUSI, BASEL <i>PD1-targeted delivery of an IL-2 variant induces a multifaceted anti-tumoral T cell response in human lung cancer</i>
11:45	LISA-MARIE MEHNER, KARLSRUHE <i>CD44 expression on bone marrow-derived cells (BMDCs) impacts the pre-metastatic niche and subsequent metastasis</i>
12:00	FADI AZAR, STRASBOURG <i>TG6050, an oncolytic vaccinia virus encoding interleukin-12 and anti-CTLA-4 antibody, favors tumor regression via profound immune remodeling of the tumor microenvironment</i>

## LUNCH BREAK AND POSTER SESSIONS

12:15	LUNCH
12:30	POSTER SESSION 2 <i>Discussion of posters 12-23</i>
13:15	POSTER SESSION 3 <i>Discussion of posters 24-34</i>

## AFTERNOON SESSION 1: INFECTION IMMUNITY & HEMATOLOGY

CHAIRS: Beate Heizmann & Lena Siewert

14:00	<b>IVO SCHIRMEISTER, FREIBURG</b> <i>Multimodal HLA-I genotype regulation by human cytomegalovirus US10 and resulting surface patterning</i>
14:15	<b>GABRIEL ROJAS JIMÉNEZ, STRASBOURG</b> <i>Liver and spleen serve as graveyards for allogeneic platelets thanks to macrophages during HLA Class I transfusion refractoriness</i>
14:30	<b>JANA NEUBER, FREIBURG</b> <i>Mycobacterial infection uncovers Kupffer cell plasticity</i>
14:45	<b>GEOFFREY BIANCHI, STRASBOURG</b> <i>The role of Ikaros and Helios transcription factors in adult hematopoietic stem cells</i>
15:00	<b>VITKA GRES, FREIBURG</b> <i>Streptococcal meningoencephalitis dynamically shapes developmental monocyte and macrophage trajectories in the CNS</i>
15:15	<b>SARA MONTICELLI, STRASBOURG</b> <i>Early-wave macrophages: novel string-puller of late hematopoiesis</i>
15:30	<b>COFFEE BREAK AND POSTER SESSION 4</b> <i>Discussion of posters 35-45</i>

## AFTERNOON SESSION 2: AUTOIMMUNITY/IMMUNODEFICIENCY/ALLERGY

CHAIRS: Benjamin Voisin & Björn Lillemeier

16:15	<b>ALESSANDRO VACCHINI, BASEL</b> <i>Nucleobase adducts bind MR1 and stimulate MR1-restricted T cells</i>
16:30	<b>ALINA BALTENSPERGER, BASEL – WILL BE PRESENTED BY TIFFANY BOUCHERY</b> <i>Of mice and men: making mouse models for type 2 immunity more translatable</i>
16:45	<b>BEI ZHAO, FREIBURG</b> <i>The role of the gut microbiota for the mammalian immune system: using inborn errors of immunity as a window into co-development and complexity</i>
17:00	<b>ANA XAVIER, BASEL</b> <i>Allergy attenuation can be achieved by targeting p84/p110g complexes in mast cells.</i>
17:15	<b>MIKA SCHNEIDER, BASEL</b> <i>Brain viral infection unleashes latent autoimmune response by B cells</i>
17:30	<b>CLOSING REMARKS</b> <i>Anne-Katrin Pröbstel &amp; Wolfgang Schamel</i>
17:45	<b>EVENING APÉRO</b> <i>The Apéro will finish at 19:30</i>

## POSTER SESSION 1

1. **SOK LIN SHERLYN FOO** *Basel Tumor-Associated B Cells induce Resistance to SHP2 Inhibition in Mammary Cancer*
2. **LAILA KULSVEHAGEN, BASEL** *Concurrent MOG antibody-associated disease and latent infections in two patients*
3. **CEMRE SEVEN, BASEL** *Forbidden B cell clones as a substrate for virus-neutralising antibody responses*
4. **JULIA HENSCHER, FREIBURG** *The impact of intestinal microbiota on astrocytes in different mouse strains*
5. **NADINE WÖSSNER, FREIBURG** *Novel approach to modulate T cell activation: from molecular mechanism to control of function*
6. **ELISABETH PÖSSNECKER, BASEL** *B cell activating factor as a potential predictor for treatment response under B cell depletion in multiple sclerosis*
7. **ADINA AUKENOVA, STRASBOURG** *Dimerization controls Ikaros TF function in pre-B cell differentiation*
8. ~~**TRANG NGUYEN, FREIBURG** *Development of combinatorial TRuC- and CAR-T cell therapy to mitigate on-target off-tumor cytotoxicity.*~~ **Unable to attend**
9. **IGAMBERDIEVA ZINAIDA, STRASBOURG** *Function of the RANK-RANKL axis in B cell-associated stroma and lymph node organization*
10. **LARISSA SCHÖNE, FREIBURG** *Selective PIK3-Delta Inhibition as a Potential Treatment Option in CVID Patients*
11. **ANNA-LENA SCHÄFER, FREIBURG** *Deciphering plasma cell heterogeneity in health and disease*

## POSTER SESSION 2

12. **NISREEN GHANEM, FREIBURG** *Tissue macrophages are the most abundant resident immune cell type in barrier tissues.*
13. **IOANNA MITRENTSI, STRASBOURG** *Assessing the impact of matrix targeting on irradiation-induced tumor remission*
14. **ROKO GVOZDENICA SIPIC, BASEL** *Re-evaluation of the role for coronin proteins in T lymphocytes*
15. **ANNIA PEREZ RIVERON, STRASBOURG** *Developing an innervated and immunocompetent 3D tissue model of the human olfactory mucosa*
16. **VANSHIKA RASTOGI, BASEL** *Mucosal T cell immunity: MR1T cells in chronic intestinal inflammation*
17. **DANIELLE PAIGE ANTHONY, FREIBURG** *Nitric Oxide limits IL-1 $\beta$  secretion and its production is highly dependent on Macrophage heterogeneity in in-vitro differentiation models.*
18. **GUILLERMO F. PÉREZ, STRASBOURG** *Study of lymphoid stromal cell development from adipose-derived mesenchymal stem cells*
19. **MARINA ZINTCHENKO, FREIBURG** *Studying signaling initiation of the  $\gamma\delta$ TCR to improve  $\gamma\delta$  T cell-based immunotherapy against cancer*
20. **ALICIA PERRIN, STRASBOURG** *Study of TSLP-DC-Treg axis in melanoma-associated microenvironment*

21. **ZOHREH MANSOORI MOGHADAM, FREIBURG** *Reactive oxygen species regulate early development of the intestinal macrophage – microbiome interface*
22. **ALEXIS VERDENET STRASBOURG** *Study of TSLP-driven DC-T cell responses using in vitro bone marrow derived DC*
23. **LEA MERY, FREIBURG** *The human cytomegalovirus glycoprotein US10 shows HLA class I genotype-specific regulatory effects*

### **POSTER SESSION 3**

24. **ALMIN LJUBIJANKIC, BASEL** *Production of recombinant Mycobacterium tuberculosis (Mtb) protein tetramers for antigen specific B-cell detection*
25. **ANA VALERIA MELENDEZ MAYORGA, FREIBURG** *Lectin-based CAR T cells efficiently eliminate Gb3+ cancer cells*
26. **NAGWA IBRAHIM, KARLSRUHE** *Contribution of CD44 Expressed on Tumor-Associated Macrophages (TAMs) to the Progression of Pancreatic Cancer*
27. **LISANNE KNOL, STRASBOURG** *Unravelling the dsRNAome in mammalian cells during viral infection*
28. **SABINE SCHWENK, FREIBURG** *Apoptosis and survival in response to TRAIL signaling in human B cell homeostasis*
29. **DANIEL PESCHKOV, FREIBURG** *Unravelling phosphorylation-dependent SHP2-PD1 Interaction Dynamics*
30. **LUKAS GÖPFRICH, FREIBURG** *KIR reporter cell lines indicate HLA-C\*05:01 manipulation in human cytomegalovirus infected fibroblasts*
31. **SHADRACK OWUSU, STRASBOURG** *Crosstalk between Lymphatic Endothelial Cells and Immune Cells in Lymphoid Organs*
32. **NUOHAN WANG, STRASBOURG** *Combined Effect of TNC Expression and Fibroblast Reticular Cells Associated with Poor Prognosis in Head and Neck Squamous Cell Carcinoma Patients Undergoing Radiotherapy*
33. **WANQIU FU, BASEL** *Investigating the role of coronin 1 in regulation of T cell population homeostasis*
34. **PEYMANE ZAHIRODDINI, BASEL** *Interaction of complement C1q with von Willebrand factor in a microfluidic bleeding model*

### **POSTER SESSION 4**

35. **RAQUEL SAL CARRO, STRASBOURG** *Autophagy-related gene 5 (Atg5) is important for the homeostasis and maintenance of splenic red pulp macrophages*
36. **RORY DOOLAN, BASEL** *NET gains: AR restores neutrophils ability to kill Schistosomes via extracellular traps.*
37. **CLARA DUFOSSEZ, FREIBURG** *USP8 modulates NLRP3 inflammasome signaling*
38. **JULIANE KLEHR, BASEL** *Interactions between C1q and macrophages impaired by anti-C1q in the pathogenesis of Systemic Lupus Erythematosus*

39. **BRUNO BENASSINI, FREIBURG** *Dysregulation of B cell Function in ANCA Associated Vasculitis*
40. **AGNIBESH DEY, FREIBURG** *Cytomegalovirus targets meningeal myeloid cells in neonatal infection*
41. **ANNA EHRET, FREIBURG** *Optogenetic activation of human T cells*
42. **MAHASSEN EL KHOURY, STRASBOURG** *Role of the Ikaros family proteins in embryonic blood cell development*
43. **VIDMANTE FUCHS, FREIBURG** *Mouse strain-dependent effect of host microbiota on microglia during homeostasis and disease*
44. **PAOLA F. RUIZ, FREIBURG** *Impact of autoimmune inflammation on stroma and immune cell landscape in a mouse model of lupus.*
45. **ALINA SEMENJAKIN, FREIBURG** *The Impact of a Neonatal CMV Infection on the Development of Lung Macrophage*