FIRST HEIDELBERG INTERFERONS SYMPOSIUM

July 8th Foyer and lecture hall Marsilius Kolleg (INF 130.1)

- 8:30 Registration and coffee
- 9:00 Welcome note (M. Binder, M. Essers)

9:15 Keynote: Ursula Klingmüller (DKFZ)

,A Systems Biology Approach to Type-I Interferon Signal Transduction - Bridging from the Receptor to the intracellular Level'

10:00 Coffee break

10:30 Short talks – IFNs in Antimicrobial Responses

Chair: Frauke Müksch

Ann-Kathrin Mehnert (CIID) – 'The hepatitis E virus capsid protein controls a replication-limiting bottleneck of the antiviral response in hepatocytes'

Sarah Prallet (University Hospital Heidelberg) – 'Human intestinal organoids to study the stem cell niche as a potential reservoir for hepatitis E virus infections'

Hao-En Huang (University Hospital Heidelberg) – 'Limited impact of hepatitis A virus 3C protease-mediated cleavage on the functions of NEMO in human hepatocytes'

Elisabeth Seebach (University Hospital Heidelberg) – 'cGAS/STING regulation in Staphylococcus aureus biofilm environments'

Jian Song (CIID) – 'HIV-1 capsid shields the HIV-1 reverse transcription products from cGAS-mediated innate immune sensing'

- 11:45 Poster Flash Talks
- 12:00 Lunch and Poster Session

13:30 Keynote: Axel Roers (University Hospital Heidelberg)

'Leveraging Pathogenetic Principles of Type I Interferonopathies to Envigorate the T Cell Response against Solid Tumors'

14:15 Short talks – **Induction Pathways (PPRs)**

Chair: Axel Roers

Sergio Acebron (COS) – 'Spatio-temporal analysis of the innate immune response to cytoplasmic dsDNA using a novel cGAMP biosensor'

Tengfeng Li (University Hospital Heidelberg) – 'RBM39 shapes innate immunity through transcriptional and splicing control of key factors of the interferon response'

Matteo Agostini (CIRI INSERM) – 'Dynamics of type I and III interferon responses against viral infections at single-cell resolution'

- 15:00 Poster Flash Talks
- 15:15 Coffee Break and Poster Session

16:30 DKFZ Distinguished Lecture by Andy Minn (University of Pennsylvania)

'Inflammatory Memory and the Opposing Roles of Interferon in Cancer Immunotherapy'

18:00 Get-Together with BBQ and Drinks
Area in front of ATV building (INF 242)

July 9th Ground floor seminar room, DKFZ ATV building (INF 242)

9:00 Keynote: Jan Rehwinkel (University of Oxford)

'MDA5 Guards Against Infection by Surveying Cellular RNA Homeostasis'

9:45 Short Talks – IFNs in Stem Cells and Cancer

Chair: Mick Milsom

Nikolaus Dietlein (DKFZ) – 'Usp22 deficiency triggers ISG expression and enhances innate immunity in vivo'

Abdul Itani (DKFZ) – 'Impact of Intrinsic Interferon Signaling Heterogeneity in Stem Cells on Leukemia Progression'

Borhane Guezguez (DKTK Mainz) – 'Targeting H3K9 dimethylation suppress cancer cells by activation of the interferon pathway'

10:30 Coffee Break

11:00 Short Talks – IFNs in Cancer Therapy

Chair: Stefan Wiemann

Ashish Goyal (DKFZ) – 'Epigenetic therapies induced antigens – a novel class of immunotherapy targets'

Sebastian Stegmaier (DKFZ) – 'Involvement of antiviral pathways in cell death decisions and their exploitation for tumor therapy'

Riccardo Pecori (DKFZ) – 'Optimization of ADAR1-recruiting guide RNAs (gRNAs) toward the generation of RNA-derived neoepitopes'

11:45 Keynote: Ana Martin-Villalba (DKFZ)

'Interferons: Beyond Antiviral Warriors – Key Modulators of Stemness in the Young and Old Brain'

12:30 Concluding remarks & farewell note

12:40 Light lunch