

DSO Update of the Düsseldorf School of Oncology (DSO) Mai 17, 2021 (Video Conference)

Program

13.30 h	Welcome	Sebastian Wesselborg (Speaker of the DSO)
13.35 h	I. <u>Invited guest lecture</u> How programmed cell death pathways tune GI cancer	Tom Lüdde (Gastroenterology, Hepatology and Infectious Diseases)
14.05 h	II. <u>DSO Network Program</u> Dissolving genetic structural variations underlying childhood malignancies using single molecule long range next generation sequencing and optical mapping techniques	Arndt Borkhardt (Pediatric Oncology, Hematology and Clinical Immunology)
14.20 h	Molecular characterization of diagnostic and predictive genomic structural variations in low-grade neuroepithelial tumors using long-read next generation sequencing and optical mapping	Nadezhda Bogodukhova (PI Guido Reifenberger, Neuropathology)
14.30 h	Identification and characterization of genomic structural variations in pediatric malignant brain tumors	Daniel Rickert (PIs Mark Remke, Pediatric Neuro-Oncogenomics/ Guido Reifenberger, Neuropathology)
14.40 h	Structural variant discovery in families with acute lymphoblastic leukemia by optical mapping and long-read sequencing	Danielle Brandes (PIs Arndt, Borkhardt, Ute Fischer, Pediatric Oncology, Hematology and Clinical Immunology)
14.50 h	New algorithms for structural variant discovery in cancer genomes using optical mapping and long read data	Laura Kühle (PI Gunnar Klau, Algorithmic Bioinformatics, Computer Science)
15.00	Break	
15.10 h	III. <u>DSO Network Program</u> Stress signaling in anticancer therapy resistance	Sebastian Wesselborg (Molecular Medicine I)
15.25 h	Identification of novel apoptosis signaling pathways for the elimination of therapy resistant tumors	Ilka Hinxlage (PI Sebastian Wesselborg, Molecular Medicine I)
15.35 h	Targeting mechanisms of the DNA damage response (DDR) to increase the therapeutic efficacy of conventional anticancer therapeutics	Julia Mann (PI Gerhard Fritz, Toxicology)
15.45 h	Targeting the autophagy-initiating class III PtdIns3K complex for cancer therapy	NN (PI Björn Stork, Molecular Medicine I)
15.55 h	Targeting heat shock proteins in therapy resistant BCP-ALL	Melina Vogt (PIs Sanil Bhatia, Pediatric Oncology, Hematology & Clinical Immunology/ Holger Gohlke, Thomas Kurz Pharmaceutical and Medicinal Chemistry)
16.05	Break	
16.15 h	IV. <u>Guests from MSSO^{Cologne}</u>	Roland Ullrich (Speaker of the MSSO ^{ABCD} , Internal Medicine, Cologne)
16.20 h	An autochthonous mouse model provides a rational for combined BTK and BCL2 inhibition in MYD88-mutant diffuse large B cell lymphoma	Ruth Flümann (Internal Medicine, Cologne)
16.30 h	Deciphering the effects of ANG-2, VEGFR and PD-1 blockade in small cell lung cancer	Christoph Otto (PI Roland Ullrich, Internal Medicine, Cologne)
16.40 h	Investigating drug resistance mechanisms in lung cancer	Johannes Brägelmann (General Pathology, Translational Genomics, Cologne)

Time Mai 17, 2019, 13.30 – 16.30 h

Steering board Peter Albers, Irene Esposito, Tanja Fehm, Norbert Gattermann, Rainer Haas, Bernhard Homey, Norbert Gattermann, Daniel Nettersheim, Guido Reifenberger, Sebastian Wesselborg

Organisation Cornelia Höner

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