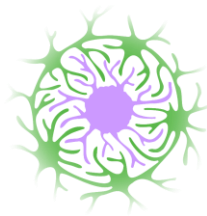

1st Heidelberg Conference on Cancer Neuroscience
July 18-19, 2023

Venue: German Cancer Research Center (DKFZ), Communication Center,
 Im Neuenheimer Feld 280, 69120 Heidelberg, Germany

July 18, 2023

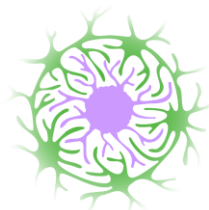
09:00 – 09:30	Welcome and Introduction Frank Winkler, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ)) Wolfgang Wick, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))
09:30 – 10:30	Instructions from neurodevelopment and the normal nervous system Chairs: Stefan Pfister, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ)), Ana Martin-Villalba, MD, PhD (German Cancer Research Center (DKFZ), Heidelberg)
09:30 – 09:45	Neuron-glia interactions regulating brain development, plasticity and cancer Michelle Monje, MD, PhD (Stanford University, California)
09:45 – 10:00	How the Peripheral Nervous System governs tissue development, homeostasis, and plasticity: lessons for Cancer Neuroscience Frank Winkler, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))
10:00 – 10:20	Cellular development and evolution of the human brain Henrik Kaessmann, PhD (Heidelberg University, Medical Faculty)
10:20 – 10:30	Short Talk - Abstract 1
10:30 – 10:45	Coffee Break
10:45 – 12:45	Brain Cancer Neuroscience Chairs: Thomas Kuner, MD (Heidelberg University, Medical Faculty), Felix Sahm, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))
10:45 – 11:05	Paracrine neural influences in gliomagenesis





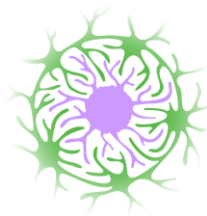
	Michelle Monje, MD, PhD (Stanford University, California)
11:05 – 11:15	Synaptic interactions between neurons and glioma cells Varun Venkataramani, MD, PhD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))
11:15 – 11:35	Glioblastoma remodeling of neural circuits in the human brain decreases survival Shawn Hervey-Jumper, MD (University of California, San Francisco)
11:35 – 11:55	Neuro-glioma crosstalk and glioma invasion (t.t.) Benjamin Deneen, PhD (Baylor College of Medicine, Houston, Texas)
11:55 – 12:05	Targeting Tumor Microtubule-mediated glioblastoma networks Sophie Weil, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))
12:05 – 12:15	Pacemaker-like hub cells in glioblastoma David Hausmann, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))
12:15 – 12:30	A novel immunotherapeutic strategy for glioblastoma Agnieszka Chryplewicz (ISREC, Lausanne, Switzerland)
12:30 – 12:40	Short Talk - Abstract 1
12:40 – 12:50	Short Talk - Abstract 2
12:50 – 13:45	Lunch
13:45 – 15:45	Extracranial Cancer Neuroscience Chairs: Rohini Kuner, PhD (Heidelberg University, Medical Faculty), Erica Sloan, PhD (Monash University, Melbourne)
13:45 – 14:05	Clinical opportunities of translation in extracranial Cancer Neuroscience Ekin Demir, MD, PhD (TU Munich, Medical Faculty)
14:05 – 14:25	Cancer and Brain: An addictive long distance relationship Claire Magnon, PharmD, PhD (INSERM, Paris)
14:25 – 14:45	Neuro-cancer interactions in head and neck cancer Moran Amit, MD, PhD (MD Anderson, Houston, Texas)
14:45 – 15:05	Molecular targeted therapies for Cancer Neuroscience: learning from general oncology





	Sonja Loges, MD, PhD (Heidelberg University, Medical Faculty Mannheim, German Cancer Research Center (DKFZ))
15:05 – 15:15	Single cell atlas of PDAC innervating neurons Vera Thiel, PhD candidate (German Cancer Research Center (DKFZ), Heidelberg))
15:15 – 15:25	Short Talk - Abstract 1
15:25 – 15:35	Short Talk - Abstract 2
15:35 – 15:45	Short Talk - Abstract 3
15:45 – 16:00	Coffee Break
16:00 – 17:00	Metastasis Cancer Neuroscience Chairs: Humsa Venkatesh, PhD (Harvard University, Boston, Massachusetts), Moran Amit, MD, PhD (MD Anderson, Houston, Texas)
16:00 – 16:20	Neural-Activity Dependent Growth of Brain Metastases Humsa Venkatesh, PhD (Harvard University, Boston, Massachusetts)
16:20 – 16:40	Neuron-tumor cell synapses drive brain metastases Matthia Karreman, PhD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))
16:40 – 16:50	Short Talk - Abstract 1
16:50 – 17:00	Short Talk - Abstract 2
17:00 – 18:30	Neuro-Immuno-Oncology Chairs: Lucas Schirmer, MD (Heidelberg University, Medical Faculty Mannheim), Adelheid Cerwenka, PhD (Heidelberg University, Medical Faculty Mannheim)
17:00 – 17:20	Linking a neurodevelopmental disorder to tumor immunity (t.t.) Douglas Hanahan, PhD (EPFL, Lausanne)
17:20 – 17:40	Nociceptor neuron impact cancer immunosurveillance Sebastien Talbot, PhD (Queen's University, Kingston, Ontario)
17:40 – 18:00	Neuron-immune axis support of glioma growth David Gutmann, MD, PhD (Washington University in St. Louis, Missouri)



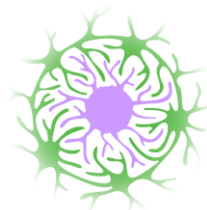


18:00 – 18:20	T cell therapy of brain tumors Michael Platten, MD (Heidelberg University, Medical Faculty Mannheim, German Cancer Research Center (DKFZ))
18:20 – 18:30	Short Talk - Abstract 1
From 19:30	Conference Dinner

July 19, 2023

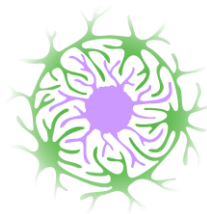
09:00 – 10:35	Effects of Cancer and Cancer Therapies on the Nervous System Chairs: Wolfgang Wick, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ)), Christoph Michalski, MD (Ulm University, Heidelberg University, Medical Faculty)
09:00 – 09:15	Neurobiological underpinnings of cancer therapy-related cognitive impairment Michelle Monje, MD, PhD (Stanford University, California)
09:15 – 09:35	Getting on my nerves: cancer pain Rohini Kuner, PhD (Heidelberg University, Medical Faculty)
09:35 – 09:55	A psychiatric perspective (t.t.) Heike Tost, MD, PhD (Heidelberg University, Medical Faculty Mannheim)
09:55 – 10:15	Cancer therapy induced neurodegeneration and neuroprotective strategies Jorg Dietrich, MD, PhD (Harvard University, Boston, Massachusetts)
10:15 – 10:25	Short Talk - Abstract 1
10:25 – 10:35	Short Talk - Abstract 2
10:35 – 10:45	Coffee Break
10:45 – 11:45	Towards Neuroscience-instructed Cancer Therapies Chairs: Frank Winkler, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ)), Sandro Krieg, MD (TU Munich, Heidelberg University, Medical Faculty)
10:45 – 11:05	General considerations & early clinical trials for brain cancer





	Wolfgang Wick, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))
11:05 – 11:25	Can sympathetic neural signaling be targeted to prevent relapse after cancer treatment? Erica Sloan, PhD (Monash University, Melbourne)
11:25 – 11:35	Imaging biomarkers of the CNS and PNS Michael Breckwoldt, MD, PhD (Heidelberg University, Medical Faculty), German Cancer Research Center (DKFZ))
11:35 – 11:45	Short Talk - Abstract 1
11:45 – 12:30	Poster Session 1 (Topics 1-4)
12:30 – 13:15	Lunch
13:15 – 14:45	Technological and Structural Developments for Cancer Neuroscience Chairs: Sinem Saka, PhD (EMBL, Heidelberg), Varun Venkataramani, MD, PhD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))
13:15 – 13:35	Deciphering the neuron-tumor cell dialogue with single cell RNA-sequencing Mariella Filbin, MD, PhD (Harvard University, Boston, Massachusetts)
13:35 – 13:50	Targeted ultrastructure of neuron-tumor interfaces Thomas Kuner, MD (Heidelberg University, Medical Faculty)
13:50 – 14:05	Recording the physiological history of cells with chemical labeling Kai Johnsson, PhD (MPI for Medical Research, Heidelberg)
14:05 – 14:15	Region-selective spatial transcriptomics for Cancer Neuroscience Sinem Saka, PhD (EMBL, Heidelberg)
14:15 – 14:30	Data science & Mathematical modeling Anna Marciniak-Czochra, PhD (Heidelberg University, Medical Faculty)
14:30 – 14:45	In-vivo imaging approaches for Cancer Neuroscience Robert Prevedel, PhD (EMBL, Heidelberg)
14:45 – 16:15	Workshops
	How do we advance Cancer Neuroscience?





14:45 – 16:15

A – Technology development

Varun Venkataramani, MD, PhD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))

Mariella Filbin, MD, PhD (Harvard University, Boston, Massachusetts)

B – Mathematical modeling and data science

Marciniak-Czochra, PhD (Heidelberg University, Medical Faculty)

Judith Zaugg, PhD (EMBL, Heidelberg)

C – Career development

Frank Winkler, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))

Wolfgang Wick, MD (Heidelberg University, Medical Faculty), German Cancer Research Center (DKFZ)

16:15 – 17:00

Poster Session 2 (Topics 5-8) & Coffee Break

17:00 – 18:00

Panel Discussion**Where do we stand – what do we need for future development of the field?**

17:00 – 18:00

Moderation

Varun Venkataramani, MD, PhD (Heidelberg University, Medical Faculty), German Cancer Research Center (DKFZ))

With

Michelle Monje, MD, PhD (Stanford University, California)

Douglas Hanahan, PhD (EPFL, Lausanne)

Ekin Demir, MD, PhD (TU Munich, Medical Faculty)

Sebastien Talbot, PhD (Queen's University, Kingston, Ontario)

Shawn Hervey-Jumper, MD (University of California, San Francisco)

Frank Winkler, MD (Heidelberg University, Medical Faculty, German Cancer Research Center (DKFZ))

Wolfgang Wick, MD (Heidelberg University, Medical Faculty), German Cancer Research Center (DKFZ))

Sonja Loges, MD, PhD (Heidelberg University, Medical Faculty Mannheim, German Cancer Research Center (DKFZ))

