

IWR Colloquium

Winter Semester 2020 / 2021

January 20, 2021 • 16:30
Virtual Talk

Speaker:

Dr. Anthony Hill
Neuronal Signaling and Morphogenesis Laboratory,
German Cancer Research Center (DKFZ)

Title:

"Single cell analysis of the genetic and epigenetic events
regulating choroid plexus tumors "

Abstract:

Our goal is to understand the molecular and cellular mechanisms regulating choroid plexus tumor (CPT) progression. We are using single cell RNAseq and ATACseq of normal and tumorous human choroid plexus to analyze the genetic and epigenetic events leading to CPT initiation, growth and survival. From these raw data we can quantitate tumor associated changes in immune cell invasion and activation, cellular signaling and transcriptional regulation and trace the lineage of choroid plexus tumor cells. This work will involve computationally integrating multiple analyses to create a holistic view of choroid plexus tumor progression.

Website Neuronal Signaling and Morphogenesis Laboratory:

www.uni-heidelberg.de/izn/researchgroups/patrizi

Website IWR-Colloquium:

www.iwr.uni-heidelberg.de/iwr-colloquium