



## The 13<sup>th</sup> NBCNS Research Meeting, November 8-9, 2022

### Tuesday November 8

10.30 – 11.30 *Registration*

11.30 – 12.30 *Lunch*

12.30 – 12.40 **Welcome**, Per Kogner, Karolinska Institutet, Ingrid Øra, Lund University and Malin Wickström, Karolinska Institutet

#### **Pediatric high-grade glioma – finding the best target**

*Chairs: Fredrik Swartling, Uppsala University and Clary Georgantzi, Karolinska Institutet*

12.40 – 13.25 **Oncohistones in cancer and neurodegeneration**  
Nada Jabado, McGill University

13.25 – 13.40 **Development of immunocompetent MYC- and PDGF-driven DIPG mouse models**  
Geraldine Giraud, Uppsala University

13.40 – 13.55 **CRISPR-Cas9 knockout screen identifies novel treatment targets in childhood high-grade glioma**  
Anna Wenger, University of Gothenburg

13.55 – 14.20 *Coffee*

#### **Precision discoveries for future neuroblastoma treatment**

*Chairs: Daniel Bexell, Lund University and Johan Holmberg, Umeå university*

14.20 – 15.05 **Cellular origin and genomic evolution of childhood neuroblastoma**  
Frank Westermann, German Cancer Research Center DKFZ

15.05 – 15.20 **Single-cell clonal heterogeneity and cell state analysis reveals genomic evolution and developmental cell state transitions in neuroblastoma**  
Jörg Otte, Karolinska Institutet

15.20 – 15.35 **Clinically-relevant treatment of PDX models reveals patterns of neuroblastoma chemoresistance**  
Adriana Mañas, Lund University

15.35 – 15.50 **ALK ligand ALKAL2 potentiates MYCN-driven neuroblastoma in the absence of ALK mutation**  
Marcus Borenäs, University of Gothenburg

15.50 – 16.05 **The neuroblastoma immune cell atlas**  
Manouk Verhoeven, Karolinska Institutet



## Poster sessions

16.10 – 16.30 Rapid fire oral poster presentations

16.30 – 17.30 Poster viewing part 1 (odd numbers at posters)

18.00 – 19.30 *Dinner*

19.30 – 20.30 Poster viewing part 2 (even numbers at posters)

20.30 – 22.30 Poster viewing part 3 with dessert

## Wednesday November 9

8.30 – 10.00 **Early clinical trials and case studies** (parallel sessions)

### *Neuroblastoma*

*Chairs: Torben Ek and Tommy Martinsson, University of Gothenburg/Sahlgrenska University Hospital and Clary Georgantzi, Karolinska Institutet/Karolinska University Hospital*

### *Pediatric CNS tumors*

*Chairs: Magnus Sabel and Malin Blomstrand, University of Gothenburg/Sahlgrenska University Hospital and Klas Blomgren, Karolinska Institutet/Karolinska University Hospital*

10.00 – 10.30 *Coffee*

## Defining heterogeneity to improve pediatric CNS tumor care

*Chairs: Helena Carén, University of Gothenburg and Magnus Sabel, University of Gothenburg*

10.30 – 11.15 **Deregulation of chromatin modifier genes identifies specific vulnerabilities in medulloblastoma subgroups**

Silvia Marino, Blizard Institute, Queen Mary University of London

11.15 – 11.30 **DNA methylation profiling improves routine diagnosis of paediatric CNS tumours: a prospective population-based study**

Elizabeth Schepke, University of Gothenburg

11.30 - 12.30 *Lunch*

## Defining heterogeneity to improve pediatric CNS tumor care

*Chairs: Ola Hermanson, Karolinska Institutet and Frida Abel, University of Gothenburg*

12.30 – 12.45 **Photoreceptor-positive cells putative cells of origin for MYC-driven Group 3 medulloblastoma**

Fredrik Swartling, Uppsala University

12.45 - 13.00 **Single-Cell Transcriptomic analysis reveals subgroup-specific trajectories, CNV levels, and patterns of immune cell infiltration in medulloblastoma**

Yana Ruchiy, Karolinska Institutet



13.00 – 13.15 **Using evolutionary constraint to define novel candidate driver genes in medulloblastoma**

Ananya Roy, Uppsala University

13.15 – 13.30 **Uncovering the regulators of tumor heterogeneity using single-cell TargetTranslator**

Ida Larsson, Uppsala University

**Scientific methodology and infrastructure in pediatric cancer research**

*Chairs: Klas Blomgren, Karolinska Institutet and Ruth Palmer, University of Gothenburg*

13.35 – 13.45 **Barntumörbanken**

Gustaf Ljungman, BTB/Uppsala University and Johanna Sandgren, BTB/Karolinska Institutet

13.45 – 14.30 **Do we have a reproducibility crisis in experimental medicine?**

Nikolaus Plesnila, University of Munich Medical Center, Ludwig-Maximilians-University (*online*)

14.30 – 14.40 **NBCNS**

Per Kogner, Karolinska Institutet, Ingrid Øra, Lund University and Malin Wickström, Karolinska Institutet

14.40 – 15.00 **Concluding remarks**

15.00 *Coffee*