

Brain Cancer

October 25-26, 2021

Conference Cochairs:

Nada Jabado, McGill University, Montréal, QC, Canada

Jeremy N. Rich, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

Roger Stupp, Northwestern University Feinberg School of Medicine, Chicago, Illinois

MONDAY, OCTOBER 25, 2021

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| 10:00-11:15 AM | Opening Remarks and Keynote Lectures |
| 10:00-10:25 AM | Cohesin-mediated chromosome folding
Job Dekker, University of Massachusetts Medical School, Amherst, Massachusetts |
| 10:25-10:50 AM | Single cell epigenomics
Bing Ren, University of Southern California San Diego, La Jolla, California |
| 10:50-11:15 AM | Panel Discussion |
| 11:15-11:30 AM | Break |
| 11:30 AM-1:00 PM | Plenary Session 1: Epigenetics and Epitranscriptomics |
| 11:30 -11:50 AM | RNA methylation in human cancer
Chaun He, The University of Chicago/ Howard Hughes Medical Institute, Chicago, Illinois |
| 11:50 AM-12:10 PM | Deconvolution of chromatin programs of stemness at single cell resolution
Marco Gallo, University of Calgary Cumming School of Medicine, Calgary, Canada |
| 12:10-12:30 PM | Dissecting glioblastoma by single cell RNA-seq
Itay Tirosh, Weizmann Institute of Science, Rehovot, Israel |
| 12:30-1:00 PM | Panel Discussion |
| 1:00-1:15 PM | Break |
| 1:15-2:45 PM | Plenary Session 2: Novel Therapeutics |
| 1:15-1:35 PM | Immunocytokines to treat glioblastoma
Michael Weller, University Hospital Zurich, Switzerland |

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- 1:35-1:55 PM **Integrated development of a brain-penetrant EGFR inhibitor and non-invasive predictive biomarker of response for glioblastoma**
David A. Nathanson, University of California Los Angeles, Los Angeles, California
- 1:55-2:15 PM **Advancing CAR T cell therapy for glioblastoma**
Christine E. Brown, City of Hope National Medical Center, Duarte, California
- 2:15-2:45 PM Panel Discussion

TUESDAY, OCTOBER 26, 2021

- 10:00-11:30 AM Plenary Session 3: Metabolism and the Tumor Microenvironment**
- 10:00-10:20 AM **Consistent metabolic adaptations in stressful tumor microenvironments**
Celeste Simon, Abramson Family Cancer Research Institute, Philadelphia, Pennsylvania
- 10:20-10:40 AM **Exploring and therapeutically exploiting the tumor microenvironment in brain cancers**
Johanna A. Joyce, UNIL University of Lausanne, Lausanne, Switzerland
- 10:40-11:00 AM **Effects of diet and insulin on cancers with PI3K pathway mutations**
Lewis C. Cantley, Weill Cornell Medicine, New York, New York
- 11:00-11:30 AM Panel Discussion
- 11:30 AM-12:00 PM Break**
- 12:00-1:30 PM Drug Design for Better CNS Penetration Panel**
Not eligible for CME credit
- Aberrant DNA repair as a therapeutic target in glioblastoma**
Petra Hamerlik, Danish Cancer Society Research Center, Copenhagen, Denmark
- Advancing biology and treatment of pediatric CNS tumors**
Mark W. Kieran, Day One Biopharmaceutical, Yardley, Pennsylvania

An AACR Virtual Special Conference in Cancer Research

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1:30-1:45 PM

Break

1:45-2:30 PM

Closing Keynote and Closing Remarks

Precision immunotherapy targeting malignant brain tumors

Duane A. Mitchell, University of Florida, Gainesville, Florida