

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Cancer Stem Cells: Advances in Biology and Clinical Translation (EK46)

May 19-21, 2021 • Virtual at your computer

Scientific Organizers: Irene Oi Lin Ng, Xin Wei Wang and Dean G. Tang

Supported by the Directors' Fund

WEDNESDAY, MAY 19

Stem Cells and Cancer

Duanqing Pei, Guangzhou Institutes of Biomedicine and Health, China
Chemical Induction of Pluripotency

Lola McAdams Reid, University of North Carolina at Chapel Hill, USA
Patch Grafting of Endodermal Stem/Progenitor Organoids Enable Hepatic and Pancreatic Cell Therapies

Xin Wei Wang, NCI, National Institutes of Health, USA
Integrated Genomics to Uncover Clinically-Relevant Liver Cancer Drivers

Short Talks Chosen from Abstracts

Cancer Stem Cells, Tumor Microenvironment and Immunity

Jos J. Melenhorst, University of Pennsylvania, USA
Remission and Relapse in Chimeric Antigen Receptor Reprogrammed T Cell Therapies

Markus Grompe, Oregon Health & Science University, USA
The Role of Polyploid Hepatocytes during Liver Regeneration and Cancer

Justin D. Lathia, Cleveland Clinic, USA
Targeting Cancer Stem Cell Immune Cell Interactions in Glioblastoma

Erwei Song, Sun-Yat-Sen Memorial Hospital, China
The Role of NET-DNA in Cancer Immunity

Short Talks Chosen from Abstracts

THURSDAY, MAY 20

Cancer Stem Cells and Cancer Heterogeneity

Calvin Kuo, Stanford University, USA
Organoid Modeling of the Tumor Microenvironment

Ning Zhang, Peking University, China
Single Cell Analysis on Liver Cancer

Richard White, Memorial Sloan Kettering Cancer Center, USA
Zebrafish Modeling of Melanoma Cell Fate

Stephanie K.Y. Ma, University of Hong Kong, Hong Kong
Non-Cellular Components of the Tumor Microenvironment in Maintenance of Liver Cancer Stemness

Short Talks Chosen from Abstracts

Cancer Stem Cells and Cancer Biology

Michael M. Shen, Columbia University, USA
Neuroendocrine Differentiation in Prostate Development and Cancer

Irene Oi Lin Ng, University of Hong Kong, Hong Kong
Liver Cancer Stemness

Klaus H. Kaestner, University of Pennsylvania School of Medicine, USA
Genetic Screens for Drivers and Modifiers of Liver Cancer

Short Talks Chosen from Abstracts

Meet the Editors (11:30am Denver/Mountain Time Start)

FRIDAY, MAY 21

Cancer Stem Cells: Modeling and Regulation

Clemens A. Schmitt, Max Delbrück Center for Molecular Medicine, Germany
Senescence Associated Stemness as a Mechanism of Treatment Failure in Cancer

Wei Guo, University of Pennsylvania, USA
Tumor-Derived Exosomes in Immune Suppression

Carmen Chak-Lui Wong, University of Hong Kong, Hong Kong
Hypoxia, Cancer and Cancer Stemness

Junfang Ji, Zhejiang University, China
miRNAs and Hepatic Cancer Stem Cells

Short Talks Chosen from Abstracts

Cancer Stem Cells: Clinical Translation

Dean G. Tang, Roswell Park Cancer Institute, USA
Molecular Understanding and Therapeutic Targeting of Prostate Cancer Cell Heterogeneity

Anna Dubrovskaya, University Hospital Carl Gustav Carus, Germany
Cancer Stem Cells as Biomarkers for Radiotherapy Outcome and Targets for Combined Treatments

Chunzhang Yang, NCI, National Institutes of Health, USA
IDH1 Mutation Predisposes Distinctive Therapeutic Vulnerabilities in Glioma Stem Cells

Wolf Ruprecht Wiedemeyer, AbbVie, Inc., USA
Characterization and Targeting of Distinct Subpopulations Driving Tumor Progression and Drug Resistance in Advanced Solid Tumors

Short Talks Chosen from Abstracts

Closing Keynote Address

Irving L. Weissman, Stanford University, USA
Normal and Neoplastic Stem Cells