

Oncology Models Forum

2021 Annual Meeting

Agenda

DAY 1

DATE: Tuesday, March 30, 2021

TIME: 11:00 am – 4:30 pm EST

Introduction

TIME	TITLE	SPEAKER
11:00 am – 11:10 am	Welcome and Introduction	Joanna Watson, PhD, NCI

Session 1: Application and Credentialing of Novel Technologies

TIME	TITLE	SPEAKER
11:10 am – 11:30 am	<i>Preclinical models of metastatic gastric cancer reveal new principles of immune surveillance</i> PI: Scott Lowe, PhD Sloan Kettering Institute	Josef Leibold, PhD University of Tübingen
11:30 am – 11:50 am	<i>Rapid interrogation of cancer variants using base editing screens</i> PI: Lukas Dow, PhD Weill Cornell Medicine	Bianca Diaz Weill Cornell Medicine
11:50 am – 12:10 pm	<i>Partnering with patients to discover dependencies of rare tumors</i> PI: Jesse S. Boehm, PhD Broad Institute	Jesse S. Boehm, PhD Broad Institute
12:10 pm – 12:30 pm	<i>Multimodal functional imaging of heterogeneity in patient-derived models of head and neck cancer</i> PI: Mukund Seshadri, PhD Roswell Park Comprehensive Cancer Center	Mukund Seshadri, PhD Roswell Park Comprehensive Cancer Center

Session 1: Flash Talks

TIME	TITLE	SPEAKER
12:30 pm – 12:35 pm	<i>Occult polyclonality of preclinical pancreatic cancer models drives in vitro evolution</i> PI: Anirban Maitra, MBBS MD Anderson Center	Maria Monberg MD Anderson Center

12:35 pm – 12:40 pm	<i>Imaging studies in a preclinical model of pancreatic cystic neoplasia</i> PI: Anirban Maitra, MBBS MD Anderson Center	Sonja Woermann, PhD MD Anderson Center
12:40 pm – 12:45 pm	<i>Credentialing patient-derived organoid models of head and neck cancer</i> PI: Mukund Seshadri, DDS, PhD Roswell Park Comprehensive Cancer Center	Vincent Vui King Chong, PhD Roswell Park Comprehensive Cancer Center
12:45 pm – 12:50 pm	<i>Living tissue imaging-based dependency biosensors for gastroesophageal tumors</i> PI: Jesse Boehm, PhD Broad Institute	Mushriq Al-Jazrawe Broad Institute
12:50 pm – 12:55 pm	<i>A novel pre-clinical model to further understand role of immunity in cervical cancer</i> PI: T.-C. Wu, MD, PhD Johns Hopkins University	Talia Henkle, PhD Johns Hopkins University

BREAK (20 minutes)

Session 2: Models for Credentialing Cancer Biology and the Microenvironment

TIME	TITLE	SPEAKER
1:15 pm – 1:35 pm	<i>Modeling K-Ras allelic variation in mice</i> PI: Kevin Haigis, PhD Dana Farber Cancer Institute	Kevin Haigis, PhD Dana Farber Cancer Institute
1:35 pm – 1:55 pm	<i>Highly penetrant and immunogenic mouse models of nonviral HCC that are suitable for evaluation of immune checkpoint inhibitors</i> PI: Michael Karin, PhD University of California, San Diego	Michael Karin, PhD University of California, San Diego
1:55 pm – 2:15 pm	<i>Interrogating cellular heterogeneity in liver regeneration and cancer</i> PI: Hao Zhu, MD Children’s Medical Center Research Institute at UT Southwestern	Hao Zhu, MD Children’s Medical Center Research Institute at UT Southwestern
2:15 pm – 2:35 pm	<i>Expansion of tumoroid models for precise treatment of the rectal cancer patient</i> PI: Josh Smith, MD Memorial Sloan Kettering Cancer Center	Brian Szeglin Memorial Sloan Kettering Cancer Center

Session 2: Flash Talks

TIME	TITLE	SPEAKER
2:35 pm – 2:40 pm	<i>Modeling necrosis and the tumor microenvironment in glioblastoma to improve therapeutic targeting</i> PI: Dan Brat, MD Northwestern University	Steve Markwell, PhD Northwestern University

2:40 pm – 2:45 pm	<i>Improving hepatocellular carcinoma mouse modeling by understanding the malignant potential and biology of liver cell subpopulations</i> PI: Hao Zhu, MD Children’s Medical Center Research Institute at UT Southwestern	Andrew Chung Children’s Medical Center Research Institute at UT Southwestern
2:45 pm – 2:50 pm	<i>Modeling acute inflammation in patient derived xenografts (PDX) of Chronic Myelomonocytic Leukemia (CMML)</i> PI: Eric Padron, MD Moffitt Cancer Center	Hannah Newman Moffitt Cancer Center

BREAK (20 minutes)

Session 3: Models for Predicting and Evaluating Therapies

TIME	TITLE	SPEAKER
3:10 pm – 3:30 pm	<i>Development of combination regimens for myeloid malignancies in humanized mice</i> Leighton Grimes, PhD, Cincinnati Children’s Hospital Stephanie Helene, MD, Yale University	Stephanie Helene, MD Yale University
3:30 pm – 3:50 pm	<i>Modeling necrosis and the tumor microenvironment in glioblastoma to improve therapeutic targeting</i> PI: Daniel Brat, PhD Northwestern University	Daniel Brat, PhD Northwestern University
3:50 pm – 4:10 pm	<i>Rescue of cognitive function following fractionated brain irradiation in a novel preclinical glioma model</i> PI: Susanna Rosi, PhD and Nalin Gupta, MD University of California San Francisco	Nalin Gupta, MD, PhD University of California San Francisco

WRAP-UP

Oncology Models Forum

2021 Annual Meeting

Agenda

DAY 2

DATE: Wednesday, March 31, 2021

TIME: 11:00 am – 5:00 pm EST

Introduction

TIME	TITLE	SPEAKER
11:00 am – 11:10 am	Welcome and Introduction	Joanna Watson, PhD, NCI

Session 4: Models for Predicting and Evaluating Therapies, continued

TIME	TITLE	SPEAKER
11:10 am – 11:30 am	<i>Integration of high dimensional datasets in an immunocompetent mammary mouse model</i> PI: Mary Helen Barcellos-Hoff, PhD University of California, San Francisco	Mary Helen Barcellos-Hoff, PhD University of California, San Francisco
11:30 am – 11:50 am	<i>Investigating cancer immunology using the NINJA model</i> PI: Nikhil Joshi, PhD Yale University School of Medicine	Nikhil Joshi, PhD Yale University School of Medicine
11:50 am – 12:10 pm	<i>Polymerase-based ultramutagenesis in animal cancer models</i> PI: Diego Castrillon, Ph.D. UT Southwestern Medical Center	Diego Castrillon, Ph.D. UT Southwestern Medical Center

Session 4: Flash Talks

TIME	TITLE	SPEAKER
12:10 pm – 12:15 pm	<i>Patient-derived cell modeling neuroendocrine tumors</i> PI: Xuefeng Liu, PhD Georgetown University	Seema Agarwal, PhD Georgetown University

BREAK (20 minutes)

Session 5: Credentialing in Non-Mouse Models

TIME	TITLE	SPEAKER
12:35 pm – 12:55 pm	<i>A novel adenoviral-permissive, immunocompetent hamster model to evaluate oncolytic adenoviral therapy for glioblastoma</i> PI: Frederick Lang, MD MD Anderson Center	Frederick Lang, MD The University of Texas, MD Anderson Cancer Center
12:55 pm – 1:15 pm	<i>Porcine models of pancreatic cancer</i> PI: Mark Carlson, MD University of Nebraska Medical Center	Mark Carlson, MD University of Nebraska Medical Center
1:15 pm – 1:35 pm	<i>Human basal-like breast cancer is represented by one of the two intrinsic mammary cancer subtypes in dogs</i> PI: Shaying Zhao, PhD University of Georgia	Shaying Zhao, PhD University of Georgia
1:35 pm – 1:55 pm	<i>Dog as a comparative model for cancer</i> PI: Kerstin Lindbald-Toh, PhD Broad Institute of MIT and Harvard	Kerstin Lindbald-Toh, PhD Broad Institute of MIT and Harvard
1:55 pm – 2:15 pm	<i>Advancing blood biopsy through the canine comparative model</i> PI: Elinor Karlsson, PhD Broad Institute of MIT and Harvard	Elinor Karlsson, PhD Broad Institute of MIT and Harvard

Session 5: Flash Talks

TIME	TITLE	SPEAKER
2:15 pm – 2:20 pm	<i>Canine osteosarcoma as a model of DMD deletion</i> PI: Elinor Karlsson, PhD Broad Institute of MIT and Harvard	Heather Gardner, PhD, DVM, DAVCIM Broad Institute of MIT and Harvard
2:20 pm – 2:25 pm	<i>Enabling comparative genomics through a machine learning classifier for human and canine cancers</i> PI: Elinor Karlsson, PhD Broad Institute of MIT and Harvard	Kate Mecquier, PhD Broad Institute of MIT and Harvard

BREAK (20 minutes)

Session 6: PRECINCT – Pre-medical Cancer Immunotherapy Network Canine Trials

TIME	TITLE	SPEAKER
2:45 pm – 3:05 pm	<i>Introduction to Comparative Oncology Program</i>	Amy LeBlanc, DVM DACVIM NCI
3:05 pm – 3:25 pm	<i>Introduction to PRECINCT</i>	Nicola Mason, PhD, BVM University of Pennsylvania
3:25 pm – 3:45 pm	<i>Enhancing the efficacy of immunotherapy in diffuse large B cell lymphoma (DLBCL) using rational combination approaches</i> PI: Cheryl London, DVM, PhD	Cheryl London, DVM, PhD Tufts Cummings School of Veterinary Medicine

	Tufts Cummings School of Veterinary Medicine	
3:45 pm – 4:05 pm	<i>Modulation of autophagy and apoptosis in doxorubicin treated canine cardiac slices</i> PI: Cheryl London, DVM, PhD Tufts Cummings School of Veterinary Medicine	Vicky Yang, DVM, PhD Tufts Cummings School of Veterinary Medicine
4:05 pm – 4:25 pm	<i>Immunotherapy trial in pet dogs with high-grade glioma promotes translation to Phase I human glioblastoma trial</i> PI: Michael Olin, PhD University of Minnesota	Michael Olin, PhD University of Minnesota
4:25 pm – 4:45 pm	<i>Comparable safety and efficacy challenges for CAR-T therapy in human and canine patients with B cell malignancies</i> PI: Nicola Mason, PhD, BVM University of Pennsylvania	Nicola Mason, PhD, BVM University of Pennsylvania
4:45 pm – 5:00 pm	Discussion	Amy LeBlanc, DVM DACVIM NCI (Moderator)

WRAP-UP