

AGENDA (EDT)

DAY 1 (September 22, 2022)

12:00-12:05 PM	Welcome
	Natalia Mercer, Ph.D., Division of Cancer Biology, NCI
12:05-12:15 PM	Opening remarks
	Dan Gallahan, Ph.D., Division of Cancer Biology, NCI
12:15-12:20 PM	Keynote speaker introduction
12-20 1-00 DM	Wanping Xu, Ph.D., Division of Cancer Biology, NCI
12:20-1:00 PIVI	Targeting protein post-translational modification pathways for cancer therapies
	Keynote speaker and Chair: Wenyi Wei, Ph.D., Harvard Medical School
Session I: Identif	ication and characterization of PTMs in tumor biology
1:00-1:05 PM	Session chair: Junmin Peng, Ph.D., St. Jude
1:05-1:30 PM	Linking epigenetics to metabolism and cancer, one gene at a time
	Raul Mostoslavsky, MD, Ph.D., Harvard Medical School
1:30-1:55 PM	Molecular snapshots of acetyl-CoA metabolism
	Ronen Marmorstein, Ph.D., University of Pennsylvania
1:55-2:20 PM	Proteomics approaches to unlock the hidden proteome
	Danielle L. Swaney, Ph.D., UCSF
2:20-2:45 PM	Intact glycopeptide analysis of human tissue and fluid samples for cancer detection
	Sharon J. Pitteri, Ph.D., Stanford University School of Medicine
2:45-3:00 PM	Break
Session II: Role o	f PTMs in tumor biology: tumor cell autonomous mechanism
3:00-3:05 PM	Session chair: Tony Hunter, Ph.D., Salk Institute
3:05-3:30 PM	Histidine phosphorylation and cancer
	Tony Hunter, Ph.D., Salk Institute
3:30-3:55 PM	Nutrient regulation of gene expression by O-GlcNAcylation: roles in cancer
	Gerald Hart, Ph.D., University of Georgia
3:55-4:20 PM	Histone H2B ubiquitination in transcription
	Cynthia Wolberger, Ph.D., Johns Hopkins University School of Medicine

4:20-5:10 PM Panel discussion: Day (Moderators: Junmin Peng, Ph.D. and Tony Hunter, Ph.D.)

DAY 2 (September 23, 2022)

12:00-12:05 PM	Welcome
	Ruibai Luo, Ph.D., Division of Cancer Biology, NCI
12:05-12:10 PM	Keynote speaker introduction
	Frank McCormick, Ph.D., FRS, DSc (Hon), UCSF
12:10-12:50 PM	PROTACs, PhosTACs, and Beyond
	Keynote speaker: Craig Crews, Ph.D., Yale University
Session III: Role	of PTMs in tumor biology: Tumor Microenvironment mechanism
L2:50-12:55 PM	Session chair: Cheryl Walker, Ph.D., Baylor College of Medicine
12:55-1:20 PM	The Warburg effect-associated histone lysine L-lactylation: discovery, biochemistry and function Yingming Zhao, Ph.D., University of Chicago
1:20-1:45 PM	Interception of the aberrant glycan CA19-9 in pancreatic disease Dannie Engle, Ph.D., Salk Institute
1:45-2:10 PM	Sialylated Lewis X (CD15s): the "sweetener" of leukemogenesis
	Robert Sackstein, M.D.,Ph.D., Florida International University
2:10-2:35 PM	Enhanced mass-spectrometry-based approach for in-depth profiling of the cancer ECM
	Alexandra Naba, Ph.D., University of Illinois at Chicago
2:35-2:50 PM	Break
Session IV: Role	of PTMs in therapy and resistance to therapy
2:50-2:55 PM	Session chair: Rosalie Sears, Ph.D., Oregon Health and Science University
2:55-3:20 PM	Pharmacological inhibition of SUMOylation and its role in activating anti-tumor immunity Yuan Chen, Ph.D., UCSD
3:20-3:45 PM	Roles for lysine methylation in epigenetic regulation and cancer biology
	Or Gozani, M.D., Ph.D., Stanford University
3:45-4:10 PM	Discovering and evaluating vulnerabilities to PRMT inhibitors in different cancer settings
	Mark Bedford, Ph.D., MD Anderson
l:10-5:00 PM Pa	nel discussion: Day 2 (Moderator: Wenyi Wei, Ph.D., Harvard Medical School)

5:00-5:10 PM Closing remarks

Wenyi Wei, Ph.D., Harvard Medical School Wanping Xu, Ph.D., Division of Cancer Biology, NCI