Molecular Origins of Lung Cancer: Prospects for Personalized Prevention and Therapy Conference Program

Monday, January 11

6:00 p.m.-7:30 p.m. Opening Session

Commodore ABCD

6:00 Welcome and Opening Remarks

Margaret Foti, American Association for Cancer Research Philadelphia. PA

David P. Carbone, Vanderbilt-Ingram Cancer Center,

Nashville, TN

Roy S. Herbst, UT M. D. Anderson Cancer Center,

Houston, TX

6:30 Keynote Address

Studying Tumor Evolution in Mouse Models of Lung Cancer **Tyler Jacks**, Massachusetts Institute of Technology, Cambridge, MA

7:30 p.m.-8:30 p.m. Welcome Reception

Bay Terrace

Tuesday, January 12

7:00 a.m.-8:00 a.m. Continental Breakfast Bay Terrace

8:00 a.m.-10:00 a.m. Plenary Session 1

Commodore ABCD

Tyrosine Kinase Signaling and Targeted Therapy Co-Chairpersons: Matthew L. Meyerson, Dana-Farber Cancer Institute, Boston, MA, and William Pao, Vanderbilt

University, Nashville, TN

8:00 *Introduction*

Matthew L. Meyerson

8:15 Discovery and clinical application of a novel oncogene, EML4-ALK, in lung

cancer

Hiroyuki Mano, Jichi Medical University, Tochigi, Japan

6.45	Jeffrey A. Engelman, Massachusetts General Hospital, Charlestown, MA		
9:15	Targeting the insulin and insulin-like growth factor receptors: Efficacy and biology Michael Pollak, McGill University, Montreal, Quebec		
9:45	*Activation of c-Met by EGFR modulates invasive phenotypes in NSCLC Austin M. Dulak, University of Pittsburgh, Pittsburgh, PA		
10:00 a.m.	-10:30 a.m.	Break	Commodore Foyer
10:30 a.m.	-12:30 p.m.	Plenary Session 2 Early Detection for Premalignal Cancerization Co-Chairpersons: Denise R. Aberle, School of Medicine, Los Angeles, Co Brambilla, Hôpital A. Michallon, Gree	UCLA David Geffen A, and Elisabeth M. P.
10:30	NLST update and biospecimen opportunity Denise R. Aberle		
11:00	Airway gene expression as a biomarker for lung cancer Avrum E. Spira , Boston University Medical Center, Boston, MA		
11:30		dification as an early mark of epigenet. I .P. Brambilla , Hôpital A. Michallon, G	•
12:00	*Sniffing NSCLC and SCLC using nanoparticle based artificial olfactory system NanoNose Nir Peled, University of Colorado Cancer Center, Aurora, CO		
12:15	*Blood-based biomarker profiles for detecting lung cancer Gina Lee, David Geffen School of Medicine at UCLA, Los Angeles, CA		
12:30 p.m.	-2:30 p.m.	Poster Session A and Lunch	Commodore E
2:30 p.m4	1:30 p.m.	Concurrent Session 1 Detection and Prevention: From Co-Chairpersons: Steven M. Dubine School of Medicine, Los Angeles, CA Kurie, UT M. D. Anderson Cancer C	ett, UCLA David Geffen A, and Jonathan M.

2:30	Personalized, targeted chemoprevention for lung cancer: Is it possible? Steven M. Dubinett		
3:00	Moving prognostic epigenetic markers for lung cancer into the clinic Malcolm V. Brock, Johns Hopkins University, Baltimore, MD		
3:30	Preclinical lung cancer chemoprevention models Robert L. Keith, University of Colorado Health Sciences Center, Denver CO		
4:00	Novel targets in metastasis prevention Jonathan M. Kurie		
2:30 p.m4	:30 p.m.	Concurrent Session 2 Other Thoracic Cancers (I Neuroendocrine) Co-Chairpersons: Pierre P. Ma Cancer Center, Nashville, TN, Memorial Sloan-Kettering Car	assion, Vanderbilt-Ingram and Valerie W. Rusch,
2:30	Copy numbe Pierre P. Ma	r alterations in the pathogenes ssion	is of small cell lung cancer
3:00	Personalizing novel mesothelioma treatments for conventional and novel therapies Steven M. Albelda, University of Pennsylvania, Philadelphia, PA		
3:30	Current insights into thymoma and thymic carcinoma Valerie W. Rusch		
4:00	*Mouse models to study roles of TSG and signaling pathway in SCLC development Kwon-Sik Park, Stanford University, Stanford, CA.		
4:15	*Matching phenotype-genotype interactions identifies mTOR as a druggable molecule in malignant pleural mesothelioma targeted therapeutic approach Giulia M. Stella, University of Pavia and Fondazione IRCCS Policlinico San Matteo, Pavia, Italy		

2:30 p.m.-4:30 p.m. **Concurrent Session 3** Commodore ABCD JAK/STAT Pathways as Therapeutic Targets Co-Chairpersons: Eric B. Haura, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL, and Tetsuya Mitsudomi, Aichi Cancer Center Research Institute, Nagoya, Japan 2:30 Targeting JAK/STAT signaling for cancer therapy Richard Jove, City of Hope, Duarte, CA 3:00 Targeting EGFR, Src, and Stat3 pathway for cancer therapy James Turkson, University of Central Florida, Orlando, FL 3:30 Targeting STATs for the molecular therapy of lung cancer: Translation from the lab to the clinic David A. Frank, Dana-Farber Cancer Institute, Boston, MA 4:00 JAK activation as a mechanism for resistance to c-Src inhibition in NSCLC Faye M. Johnson, UT M. D. Anderson Cancer Center, Houston, TX Commodore ABCD 4:30 p.m.-6:00 p.m. Advocacy, Regulatory, and Funding Issues Co-Chairpersons: Kim Norris, Lung Cancer Foundation of America, Palos Verdes Estates, CA, and Debra A. Violette. Dana-Farber Lung SPORE, Lung Cancer Alliance, Augusta, MF 4:30 Title TBD Lori Monroe, Lung Cancer Foundation of America, Bowling Green, KY 5:00 Panel Discussion Wednesday, January 13 7:00 a.m.-8:00 a.m. **Continental Breakfast** Bay Terrace 8:00 a.m.-10:00 a.m. **Plenary Session 3** Commodore ABCD Cancer Stem Cells Co-Chairpersons: Stephen B. Baylin, Sydney Kimmel Comprehensive Cancer Center at Johns Hopkins, Baltimore,

Dallas, TX

MD. and John D. Minna, UT Southwestern Medical Center.

8:00	Lung cancer stem cells: Identification and translation to the clinic John D. Minna		
8:30	Epigenetic therapy, cancer self-renewing cells, and lung cancer Stephen B. Baylin		
9:00	Lung cancer stem cells and the cytokine network Vera Levina, University of Pittsburgh Cancer Institute, Pittsburgh, PA		
9:30	*Lung cancer cells asymmetrically divide their template DNA strands during cell division Brid M. Ryan , National Cancer Institute, Bethesda, MD		
9:45	*Targeting Rac1 GTPase benefits both human lung adenocarcinoma stencell and non-stem cell therapies Shailaja Akunuru, Children's Hospital Research Foundation, University of Cincinnati, Cincinnati, OH		
10:00 a.m	-10:30 a.m.	Break	Commodore Foyer
10:30 a.m	12:30 p.m.	Plenary Session 4 Genome-wide Approaches to Risk Co-Chairpersons: Bruce A. J. Ponder, Research Institute, Cambridge, UK, ar UT M. D. Anderson Cancer Center, Ho	CRUK, Cambridge and Margaret R. Spitz,
10:30	Genome-wide approaches to risk: Lessons from breast and prostate Bruce A. J. Ponder		
11:00	Convergence of genetic findings for nicotine dependence and lung cancel Laura J. Bierut, Washington University School of Medicine, St. Louis, MC		
11:30	COPDGene: Risk factors for COPD and lung cancer James D. Crapo, University of Colorado Health Sciences Center, Denver CO		
12:00		ausal factors for lung cancer by genome I. Amos, UT M. D. Anderson Cancer C	

12:30 p.m.-2:30 p.m. Lunch (on own)

2:30 p.m4	:30 p.m.	Concurrent Session 4 Lung Cancer Profiling with r. Co-Chairpersons: Glen J. Weiss, Research Institute, Phoenix, AZ, M. D. Anderson Cancer Center, R.	Translational Genomics and Ignacio I. Wistuba, UT	
2:30	Application of miRNAs in the treatment of lung cancer Glen J. Weiss			
3:00		roRNA alterations in the pathogenesis of lung cancers ashi Takahashi, Nagoya University Graduate School of Medicine, goya, Japan		
3:30		MicroRNA binding site SNPs and lung cancer risk Ioanne B. Weidhaas, Yale University School of Medicine, New Haven,		
4:00	*The role of microRNA 125a-3P in the pathogenesis of lung cancer Saswati Hazra, David Geffen School of Medicine at UCLA, Los Angeles, CA			
4:15		affinity assay ack, Albert Einstein College of Me	dicine, Bronx, NY	
2:30 p.m4	:30 p.m.	Concurrent Session 5 Mouse Models of Lung Cand Chairperson: Kwok-kin Wong, Da Boston, MA		
2:30	The use of genetically engineered mouse lung cancer models for preclinical testing of novel therapeutics Kwok-kin Wong			
3:00	The multiple roles of Kras in mouse epithelial cancer development Minh D. To, UCSF Comprehensive Cancer Center, San Francisco, CA			
3:30	Preclinical evaluation of genetically engineered mouse models of NSCLC and SCLC Leisa Johnson, Genentech, Inc., South San Francisco, CA			
4:00	*BRAF deletion and pharmacologic inhibition enhance KRAS-driven tumorigenesis Christopher L. Murriel, Genentech, Inc., South San Francisco, CA			
4:15	*Novel lung cancer model mediated by lentiviral gene delivery Yifeng Xia, Salk Institute for Biological Studies, La Jolla, CA			

2:30 p.m.-4:30 p.m. Concurrent Session 6 Commodore ABCD Other Biomarkers Co-Chairpersons: David P. Carbone, Vanderbilt-Ingram Cancer Center, Nashville, TN, and Fred R. Hirsch, University of Colorado Cancer Center, Aurora, CO 2:30 Proteomics-based biomarker development in NSCLC David P. Carbone 3:00 Gene copy number for EGFR and IGF-1R: Clinical implications Fred R. Hirsch 3:30 Prognostic and predictive biomarkers for adjuvant chemotherapy Ming Sound Tsao, Princess Margaret Hospital, Toronto, Canada 4:00 *High-throughput protein biomarker discovery and translation into clinical diagnostics for oncology using the SomaLogic SOMAmer-based assay Rachel Ostroff, SomaLogic, Inc., Boulder, CO 4:15 *Gene expression changes in the bronchial airway epithelium of smokers with lung cancer may reflect common pathways of tobacco-related carcinogenesis Adam C. Gower, Boston University, Boston, MA 4:30 p.m.-6:30 p.m. Commodore E Poster Session B and Reception Thursday, January 14 7:00 a.m.-8:00 a.m. **Continental Breakfast** Bay Terrace Commodore ABCD 8:00 a.m.-10:00 a.m. **Plenary Session 5** Angiogenesis and the Tumor Microenvironment Co-Chairpersons: Roy S. Herbst, UT M. D. Anderson Cancer Center, Houston, TX, and Joan H. Schiller, UT Southwestern Medical Center, Dallas, TX 8:00 Antiangiogenic agents in the clinic: Are we there yet?

Heinz-Josef Lenz, USC/Norris Comprehensive Cancer Center, Los

Molecular signature for bevacizumab in E4599

Joan H. Schiller

Angeles, CA

8:30

		late-stage metastatic diseas erbel, Sunnybrook Health So	se ciences Centre, Toronto, Canada
9:30	*Phase II studies of ASA404 (vadimezan, DMXAA) plus carboplatin and paclitaxel in advanced squamous and nonsquamous non-small cell lung cancer: Blood and lymphatic adverse events M. J. McKeage, The University of Auckland, Auckland, New Zealand		
9:45	*Identification of tumor cell-derived factors associated with resistance to anti-VEGF therapy in non-small cell lung cancer Laura A. Sullivan, University of Texas Southwestern Medical Center, Dallas, TX		
10:00 a.m	10:30 a.m.	Break	Commodore Foyer
10:30 a.m	12:30 p.m.	Drug Design and New T Co-Chairpersons: Nagahiro	o Saijo, Kinki University School a, Japan, and David R. Gandara
10:30	Personalized therapeutic approaches for advanced NSCLC: The MDACC BATTLE program Roy S. Herbst, UT M. D. Anderson Cancer Center, Houston, TX		
11:00	Personalizing chemotherapy for advanced NSCLC David R. Gandara		
11:30	New targets for chemoprevention and therapy for lung cancer Scott M. Lippman , UT M. D. Anderson Cancer Center, Houston, TX		
12:00	New target discovery: A drug company perspective Mace L. Rothenberg, Pfizer, Inc., San Diego, CA		

Contrasting effects of different antiangiogenic drugs (TKIs and antibodies)

9:00

^{*}Indicates proffered presentation from selected abstracts