

# Conference Program

## Thursday, February 21

- 5:00 p.m.-6:30 p.m.**      **Keynote Session**  
Monarchy Ballroom  
*Co-Chairpersons: Kohei Miyazono, University of Tokyo, Tokyo, Japan, and Tyler Jacks, David H. Koch Institute for Integrative Cancer Research at MIT, Cambridge, MA, USA*
- 5:00 p.m.**      **The biology of noncoding RNAs in cancer\***  
Phillip A. Sharp, David H. Koch Institute for Integrative Cancer Research at MIT, Cambridge, MA, USA
- 5:45 p.m.**      **Targeting essential growth drivers in human cancers\***  
Hiroyuki Mano, Jichi Medical University, Tochigi, Japan; University of Tokyo, Tokyo, Japan
- 6:30 p.m.-8:00 p.m.**      **Opening Reception**  
Regency Ballroom

## Friday, February 22

- 7:00 a.m.-8:00 a.m.**      **Breakfast/Mentoring Roundtables**  
Sunset Terrace
- 8:00 a.m.-9:30 a.m.**      **Session 1: Cancer Genomes and Tumor Evolution**  
Monarchy Ballroom  
*Co-Chairpersons: William C. Hahn, Dana-Farber Cancer Institute, Boston, MA, USA, and Yoshio Miki, Tokyo Medical and Dental University, Tokyo, Japan*
- 8:00 a.m.**      **Survival of the fittest: Cancer genome evolution towards adaptation\***  
Tatsuhiko Shibata, National Cancer Center Research Institute, Tokyo, Japan
- 8:35 a.m.**      **Interrogating the architecture of cancer genomes**  
Peter J. Campbell, Wellcome Trust Sanger Institute, Cambridge, United Kingdom
- 9:10 a.m.**      **Genome-wide analyses of rhabdomyosarcoma\***  
Junko Takita, University of Tokyo, Tokyo, Japan

\*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings*.

- 9:30 a.m.-10:00 a.m.**            **Break**  
Sunset Terrace
- 10:00 a.m.-11:30 a.m.**        **Session 2: Circulating Tumor Cells and Other New Diagnostic Technologies**  
Monarchy Ballroom  
*Co-Chairpersons: Okio Hino, Juntendo University School of Medicine, Tokyo, Japan, and Sean J. Morrison, UT Southwestern Medical Center, Dallas, TX, USA*
- 10:00 a.m.**        **Bioengineering and clinical applications of circulating tumor cell chips\***  
Shyamala Maheswaran, Massachusetts General Hospital, Charlestown, MA, USA
- 10:35 a.m.**        **PLS3 expression in circulating blood is a good marker for colon cancer recurrence\***  
Masaki Mori, Osaka University, Osaka, Japan
- 11:10 a.m.**        **The clinical application of circulating tumor DNA**  
Luis A. Diaz, Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, Baltimore, MD, USA
- 11:30 a.m.-3:30 p.m.**        **Free Time**
- 3:30 p.m.-5:00 p.m.**        **Session 3: Noncoding RNAs**  
Monarchy Ballroom  
*Co-Chairpersons: Phillip A. Sharp, David H. Koch Institute for Integrative Cancer Research at MIT, Cambridge, MA, USA, and Hitoshi Nakagama, National Cancer Center Research Institute, Tokyo, Japan*
- 3:30 p.m.**        **Senescence-associated microRNAs, a novel approach to tumor suppression\***  
Hidetoshi Tahara, Hiroshima University, Hiroshima, Japan
- 4:05 p.m.**        **microRNA reprogramming in cancer: Mechanisms and consequences**  
Joshua Mendell, UT Southwestern Medical Center, Dallas, TX, USA
- 4:40 p.m.**        **Linking RNA to human health and disease**  
John L. Rinn, Harvard University, Cambridge, MA, USA
- 5:00 p.m.-7:00 p.m.**        **Poster Session A**  
Regency Ballroom and Grand Promenade

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## Saturday, February 23

- 7:00 a.m.-8:00 a.m.**            **Breakfast/Mentoring Roundtables**  
Sunset Terrace
- 8:00 a.m.-10:00 a.m.**        **Session 4: DNA Damage Response**  
Monarchy Ballroom  
*Co-Chairpersons: Fuyuki Ishikawa, Kyoto University, Kyoto, Japan, and Kevin M. Shannon, University of California, San Francisco, CA, USA*
- 8:00 a.m.**            **DNA damage response and cellular senescence in cancer\***  
Eiji Hara, Japanese Foundation for Cancer Research, Tokyo, Japan
- 8:35 a.m.**            **Modeling resistance to anticancer drugs**  
Jeffrey E. Settleman, Genentech, Inc., South San Francisco, CA, USA
- 9:10 a.m.**            **Complex regulation of homologous recombination by E3 ligases\***  
Shinichiro Nakada, Osaka University, Osaka, Japan
- 9:30 a.m.**            **A systems approach to understanding and predicting therapeutic response**  
Joe W. Gray, Oregon Health and Science University's Knight Cancer Institute, Portland, OR, USA
- 10:00 a.m.-10:30 a.m.**        **Break**  
Sunset Terrace
- 10:30 a.m.-12:00 p.m.**        **Session 5: Epigenetics and Cancer Cell States**  
Monarchy Ballroom  
*Co-Chairpersons: Joshua Mendell, UT Southwestern Medical Center, Dallas, TX, USA, and Masahide Takahashi, Nagoya University Graduate School of Medicine, Nagoya, Japan*
- 10:30 a.m.**            **Epigenetic plasticity and its clinical implications in human neoplasia\***  
Yutaka Kondo, Aichi Cancer Center, Nagoya, Japan
- 11:05 a.m.**            **Human melanoma metastasis in NSG mice correlates with clinical outcome in patients\***  
Sean J. Morrison, UT Southwestern Medical Center, Dallas, TX, USA
- 11:40 a.m.**            **Dysregulation of noncoding RNA genes and its clinical application\***  
Hiromu Suzuki, Sapporo Medical University, Sapporo, Japan

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- 12:00 p.m.-3:30 p.m. Free Time**
- 3:30 p.m.-5:00 p.m. Session 6: Cancer Progression and Metastasis**  
 Monarchy Ballroom  
*Co-Chairpersons: Motoharu Seiki, University of Tokyo Institute of Medical Science, Tokyo, Japan, and Lynda Chin, The University of Texas MD Anderson Cancer Center, Houston, TX, USA*
- 3:30 p.m. Molecular characterization of lung cancer progression\***  
 Tyler Jacks, David H. Koch Institute for Integrative Cancer Research at MIT, Cambridge, MA, USA
- 4:05 p.m. Hypoxia-inducible factor activity is an excellent marker for tumorigenesis and cancer progression\***  
 Shinae Kondoh, Tokyo Institute of Technology, Tokyo, Japan
- 4:40 p.m. The systemic environment as an important determinant of malignancy**  
 Sandra S. McAllister, Brigham and Women's Hospital, Boston, MA, USA
- 5:00 p.m.-7:00 p.m. Poster Session B**  
 Regency Ballroom and Grand Promenade

## Sunday, February 24

- 7:00 a.m.-8:00 a.m. Breakfast/Mentoring Roundtables**  
 Sunset Terrace
- 8:00 a.m.-9:30 a.m. Session 7: Tumor Microenvironment**  
 Monarchy Ballroom  
*Co-Chairpersons: Kevin M. Haigis, Massachusetts General Hospital, Charlestown, MA, USA, and Atsushi Ochiai, National Cancer Center, Hospital East, Kashiwa, Japan*
- 8:00 a.m. Molecular targeting of tumor vasculature\***  
 Gou Young Koh, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea (Rep.)
- 8:35 a.m. Inflammation and cancer: Reprogramming the immune microenvironment as an anticancer therapeutic strategy\***  
 Lisa M. Coussens, Oregon Health and Science University's Knight Cancer Institute, Portland, OR, USA
- 9:10 a.m. Mint3 promotes tumor malignancy in cancer and stromal cells\***  
 Takeharu Sakamoto, University of Tokyo, Institute of Medical Science, Tokyo, Japan

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- 9:30 a.m.-10:00 a.m.**      **Break**  
Sunset Terrace
- 10:00 a.m.-11:30 a.m.**      **Session 8: Cancer Immunology and Immunotherapy**  
Monarchy Ballroom  
*Co-Chairpersons: Masao Seto, Aichi Cancer Center Research Institute, Nagoya, Japan, and Lisa M. Coussens, Oregon Health & Science University's Knight Cancer Institute, Portland, OR, USA*
- 10:00 a.m.**      **Immune checkpoint blockade in cancer therapy: New insights and opportunities**  
James P. Allison, The University of Texas MD Anderson Cancer Center, Houston, TX, USA
- 10:35 a.m.**      **Impact of innate and acquired immune responses in adult T-cell leukemia\***  
Mari Kannagi, Tokyo Medical and Dental University, Tokyo, Japan
- 11:10 a.m.**      **microRNAs and myeloid-derived suppressor cells in tumor immune escape\***  
Qingqing Wang, Zhejiang University School of Medicine, Hangzhou, China
- 11:30 a.m.-3:30 p.m.**      **Free Time**
- 3:30 p.m.-5:00 p.m.**      **Session 9: Preclinical Models**  
Monarchy Ballroom  
*Co-Chairpersons: Katerina A. Politi, Yale Cancer Center, New Haven, CT, USA, and Masanori Hatakeyama, University of Tokyo, Tokyo, Japan*
- 3:30 p.m.**      **GEM models in translational research**  
Lynda Chin, The University of Texas MD Anderson Cancer Center, Houston, TX, USA
- 3:35 p.m.**      **Novel strategies for targeting cancer stem cells\***  
Hideyuki Saya, Keio University, Tokyo, Japan
- 4:10 p.m.**      **Contributions of the tumor microenvironment to chemoresistance**  
Mikala Egeblad, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA
- 5:00 p.m.-7:00 p.m.**      **Poster Session C**  
Regency Ballroom and Grand Promenade

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## Monday, February 25

- 7:00 a.m.-8:00 a.m.**                    **Breakfast/Mentoring Roundtables**  
Sunset Terrace
- 8:00 a.m.-9:00 a.m.**                    **Session 10: Signaling and Systems Biology**  
Monarchy Ballroom  
*Co-Chairpersons: Seong-Jin Kim, CHA Cancer Institute, Seoul, Korea, and Cornelia M. Ulrich, German Cancer Research Center, Heidelberg, Germany*
- 8:00 a.m.**                    **Genomic profiles of Asian-endemic cancers\***  
Patrick Tan, Duke-NUS Graduate Medical School Singapore, Singapore
- 8:35 a.m.**                    **Statistical gene network analysis for understanding cancer heterogeneity\***  
Seiya Imoto, University of Tokyo, Institute of Medical Science, Tokyo, Japan
- 9:00 a.m.-10:30 a.m.**                    **Session 11: Cancer Prevention**  
Monarchy Ballroom  
*Co-Chairpersons: Tyler Jacks, David H. Koch Institute for Integrative Cancer Research at MIT, Cambridge, MA, USA, and Johji Inazawa, Tokyo Medical and Dental University, Tokyo, Japan*
- 9:00 a.m.**                    **Energy balance and inflammation in cancer prevention and prognosis**  
Cornelia M. Ulrich, German Cancer Research Center, Heidelberg, Germany
- 9:35 a.m.**                    **GWAS revealed the roles of gene-environmental interaction in carcinogenesis\***  
Koichi Matsuda, University of Tokyo, Institute of Medical Science, Tokyo, Japan
- 10:10 a.m.**                    **Targeting cellular survival responses to replication stress as a novel approach for cancer prevention \***  
Guang Peng, The University of Texas MD Anderson Cancer Center, Houston, TX, USA
- 10:30 a.m.-11:00 a.m.**                    **Break**

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- 11:00 a.m.-12:00 p.m.**      **Session 12: Targeted Therapies and Resistance**  
Monarchy Ballroom  
*Co-Chairpersons: Tomoki Naoe, Nagoya University Hospital,  
Nagoya, Japan, and Mikala Egeblad, Cold Spring Harbor  
Laboratory, Cold Spring Harbor, NY, USA*
- 11:00 a.m.**      **TTF-1/NKX2-1: A double-edged sword in lung adenocarcinoma \***  
Takashi Takahashi, Nagoya University, Nagoya, Japan
- 11:35 a.m.**      **Biological mechanisms of resistance to targeted therapies**  
Katerina A. Politi, Yale Cancer Center, New Haven, CT, USA
- 12:00 p.m.-4:30 p.m.**      **Free Time**
- 4:30 p.m.-6:30 p.m.**      **Poster Session D**  
Regency Ballroom and Grand Promenade
- 7:00 p.m.-10:00 p.m.**      **Closing Banquet**  
Monarchy Ballroom