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*  
Tatsuhiro 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

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

10:30 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

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

*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 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

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

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