

# CONFERENCE PROGRAM AND SCHEDULE



## THURSDAY, NOVEMBER 15

<p><b>07:30-08:30</b>    <b>Breakfast</b> Crystal Ballroom Foyer</p>	<p><b>08:30-10:10</b>    <b>Educational Session: Genomics-Driven Clinical Trials</b> Crystal Ballroom</p> <p><b>Session Cochairs: Yoon-Koo Kang</b>, University of Ulsan College of Medicine, Seoul, Korea, and <b>Elaine R. Mardis</b>, Nationwide Children's Hospital, Columbus, OH, USA</p>	<p>10:45-11:20    <b>Opening Keynote Lecture</b> <b>Precision medicine in lung cancer: Opportunities and challenges</b> Waun Ki Hong, The University of Texas MD Anderson Cancer Center, Houston, TX, USA</p>
<p>08:30-08:55    <b>Precision medicine in lung cancer: Prime time</b> Myung-Ju Ahn, Sungkyunkwan University Samsung Medical Center, Seoul, Korea</p>	<p>08:55-09:20    <b>The Umbrella Trial in GC: Understanding the disease through genomics</b> Jeeyun Lee, Sungkyunkwan University Samsung Medical Center, Seoul, Korea</p>	<p><b>11:20-13:00</b>    <b>Luncheon Symposia and Special Lecture</b> <i>Sessions will be held simultaneously</i></p>
<p>09:20-09:45    <b>Tumor agnostic drug development: Revisiting the scorecard in 2018</b> Alexander E. Drilon, Memorial Sloan Kettering Cancer Center, New York, NY, USA</p>	<p>09:45-10:10    <b>Overview of genomic technologies</b> Elaine R. Mardis</p>	<p>11:20-11:50    <b>Luncheon Symposium 1</b> Crystal Ballroom <i>Presented by ONO Pharma Korea / Bristol- Myers Squibb</i></p> <p><b>Session Chair: Geon Kook Lee</b>, National Cancer Center, Goyang, Korea</p>
<p><b>10:10-10:30</b>    <b>Break</b></p>	<p><b>10:30-11:20</b>    <b>Welcome and Opening Keynote Lecture</b> Crystal Ballroom</p>	<p><b>11:20-12:00</b>    <b>Luncheon Symposium 2</b> Emerald Room <i>Presented by AstraZeneca</i></p> <p><b>Session Chair: Sang-We Kim</b>, University of Ulsan College of Medicine, Seoul, Korea</p>
<p>10:30-10:40    <b>Welcome</b> Tae-You Kim, Seoul National University Hospital, Seoul, Korea</p> <p>Charles L. Sawyers, Memorial Sloan Kettering Cancer Center, New York, NY, USA</p>	<p>10:40-10:45    <b>Introduction</b> Charles L. Sawyers</p>	<p><b>Optimal strategy to manage T790M mutant NSCLC patients: from diagnosis to treatment</b> Hye Ryun Kim, Yonsei University College of Medicine, Seoul, Korea</p>
		<p><b>11:20-12:00</b>    <b>Luncheon Symposium 3</b> Sapphire Ballroom A <i>Presented by Merck Korea</i></p> <p><b>Session Chair: Young Suk Park</b>, Samsung Medical Center, Seoul, Korea</p>
		<p><b>Optimized treatment strategy in RASwt mCRC with recent precision medicine</b> Myung Ah Lee, Seoul St. Mary's Hospital, The Catholic University of Korea, Seoul, Korea</p>

12:00-13:00	<b>Special Lecture 1: “Scientia potentia est”— NGS-based precision medicine</b> Crystal Ballroom	14:40-15:00	<b>Break</b>
	<b>Session Chair: Yeul Hong Kim</b> , Korea University College of Medicine, Seoul, Korea	15:00-16:40	<b>Plenary Session 2: Precision Diagnostics: NGS-Based Cancer Panels</b> Crystal Ballroom
12:00-12:15	<b>K-MASTER Program overview: Korean Precision Medicine Initiative</b> Yeul Hong Kim, Korea University College of Medicine, Seoul, Korea		<b>Session Cochairs: Eun Sook Lee</b> , National Cancer Center Korea, Goyang, Korea, and <b>Thomas D. Brown</b> , Swedish Cancer Institute, Seattle, WA, USA
12:15-12:30	<b>QuIP TMB technical comparability study: The German approach</b> Jörg Maas, Qualitätssicherungs-Initiative Pathologie, Berlin, Germany	15:00-15:25	<b>Current status of the Korean Cancer Precision Medicine Project, K-Master</b> Yeul Hong Kim, Korea University College of Medicine, Seoul, Korea
12:30-13:00	<b>Discussion and Q&amp;A: Regulatory considerations for NGS oncopanel development</b> Panelists: Yeul Hong Kim, Geon Kook Lee, Jörg Maas, and Aurora Seminara	15:25-15:50	<b>Impact of clinical NGS: Lessons from lung cancer</b> Jessica Jiyeong Lin, Massachusetts General Hospital Cancer Center, Boston, MA, USA
		15:50-16:15	<b>Updated results and new studies in the nationwide NGS-based new agent development</b> Atsushi Ohtsu, National Cancer Center Hospital East, Chiba, Japan
<b>13:00-14:40</b>	<b>Plenary Session 1: Cancer Genomics</b> Crystal Ballroom	16:15-16:40	<b>The future of cancer care through biologic profiling and big data</b> Thomas D. Brown
	<b>Session Cochairs: Hyun Cheol Chung</b> , Yonsei University College of Medicine, Seoul, Korea, and <b>Patrick Tan</b> , Duke-NUS Medical School, Singapore		
13:00-13:25	<b>Knowledge to practice using cancer genomics</b> Se-Hoon Lee, Samsung Medical Center, Seoul, Korea	<b>16:40-17:10</b>	<b>Spotlight on Proffered Papers Session 1</b> Crystal Ballroom
13:25-13:50	<b>Genomic and epigenomic profiles of Asian gastrointestinal malignancies</b> Patrick Tan		<b>Session Cochairs: Tae Won Kim</b> , Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea, and <b>Jessica Jiyeong Lin</b> , Massachusetts General Hospital Cancer Center, Boston, MA, USA
13:50-14:15	<b>Identification of genomic features that can predict the response to chemotherapy using patient-derived xenograft models</b> Jong-Il Kim, Seoul National University College of Medicine, Seoul, Korea	16:40-16:50	<b>Targeted sequencing analysis of pulmonary adenocarcinoma with multiple synchronous ground-glass/lepidic nodules*</b> Eunhyang Park, Seoul National University Bundang Hospital, Seoul National University College Of Medicine, Seongnam, Korea
14:15-14:40	<b>Implementing cancer genomics into the diagnosis and treatment of pediatric cancer</b> Elaine R. Mardis, Nationwide Children’s Hospital, Columbus, OH, USA	16:50-17:00	<b>Mechanisms of gene fusion formation in bone and soft tissue tumors*</b> Nathaniel Anderson, The Hospital for Sick Children, Toronto, ON, Canada

\*Short talk from proffered abstract

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17:00-17:10 **TET1-mediated 5-hydroxymethylcytosine alteration in the pathogenesis of medulloblastoma\***  
Hyerim Kim, Emory University, Atlanta, GA, USA

**17:15-19:30 Poster Session A and Reception**  
Sapphire Ballroom B

## FRIDAY, NOVEMBER 16

**07:30-08:30 Breakfast**  
Crystal Ballroom Foyer

**08:30-10:10 Plenary Session 3: Liquid Biopsy**  
Crystal Ballroom  
**Session Cochairs:** **Tae-You Kim**, Seoul National University Hospital, Seoul, Korea, and **Ryan Dittamore**, Epic Sciences, San Diego, CA, USA

08:30-08:55 **Monitoring treatment response and progression in cancer patients with circulating tumor DNA sequencing**  
Woong-Yang Park, Samsung Genome Institute, Seoul, Korea

08:55-09:20 **Clinical validation of single CTC profiling as a predictive biomarker of treatment selection in mCRPC**  
Ryan Dittamore

09:20-09:45 **Technology perspectives of liquid biopsy**  
Duhee Bang, Yonsei University, Seoul, Korea

09:45-10:10 **Plasma circulating tumor DNA predicts therapy outcomes in advanced prostate cancer**  
Alexander W. Wyatt, Vancouver Prostate Centre, University of British Columbia, Vancouver, BC, Canada

**10:10-10:40 Break**

**10:40-11:20 Keynote Lecture**  
Crystal Ballroom

10:40-10:45 **Introduction**  
Tae-You Kim, Seoul National University Hospital, Seoul, Korea

10:45-11:20 **Clinical trials in the era of precision medicine**  
Yung-Jue Bang, Seoul National University College of Medicine, Seoul, Korea

**11:20-13:00 Luncheon Symposia and Special Lecture**  
*Sessions will be held simultaneously*

11:20-12:00 **Luncheon Symposium 4**  
Crystal Ballroom  
*Presented by Roche Korea*

**Session Chair: Ki Hyeong Lee**, Chungbuk National University College of Medicine, Cheongju, Korea

**Targeting VEGF in the era of cancer immunotherapy**  
Ji-Youn Han, National Cancer Center, Goyang, Korea

11:20-12:00 **Luncheon Symposium 5**  
Emerald Room  
*Presented by Amgen Korea*

**Session Chair: Jin Seok Ahn**, Samsung Medical Center, Seoul, Korea

**RANKL inhibition as a treatment option in preventing skeletal-related events in cancer patients with bone metastases**  
Alison T. Stopeck, University of Arizona Cancer Center, Tucson, AZ, USA

11:20-12:00 **Luncheon Symposium 6**  
Sapphire Ballroom A  
*Presented by Sanofi Genzyme*

**Session Chair: Jong Gwang Kim**, Kyungpook National University School of Medicine, Daegu, Korea

**Expanding the horizons in treatment of mCRC: How to choose the “right” second line**  
Kei Muro, Aichi Cancer Center Hospital, Nagoya, Japan

*\*Short talk from proffered abstract*

12:10-13:00	<b>Special Lecture 2</b> Crystal Ballroom  <b>Session Chair: Jin-Hyoung Kang</b> , College of Medicine, The Catholic University of Korea, Seoul, Korea  <b>Building a clinico-genomic database to inform cancer immunotherapy treatment</b> Geoff Otto, Foundation Medicine, Cambridge, MA, USA	15:00-15:25	<b>Effective biomarker for immune-precision treatment of metastatic gastric cancer</b> Sun Young Rha, Yonsei University College of Medicine, Seoul, Korea
13:00-14:40	<b>Plenary Session 4: Novel Technologies</b> Crystal Ballroom  <b>Session Cochairs: Seock-Ah Im</b> , Seoul National University Hospital, Seoul, Korea, and <b>William C. Hahn</b> , Dana-Farber Cancer Institute, Boston, MA, USA	15:25-15:50	<b>Comparative analysis of tumor-infiltrating T cells across multiple tumor indications</b> Zemin Zhang
13:00-13:25	<b>Computational inference of cancer dependencies in clinical samples</b> Jung Kyoon Choi, KAIST, Daejeon, Korea	15:50-16:15	<b>Advancement in anti-PD-1 therapy: Prediction and combination</b> Eui-Cheol Shin, KAIST, Daejeon, Korea
13:25-13:50	<b>Lineage plasticity in prostate cancer</b> Charles L. Sawyers, Memorial Sloan Kettering Cancer Center, New York, NY, USA	16:15-16:40	<b>Role of regulatory T cells in immuno-oncology</b> Hiroyoshi Nishikawa, National Cancer Center, Chiba, Japan
13:50-14:15	<b>Architecture of genomic rearrangements molding fusion oncogenes in lung adenocarcinomas</b> Young Seok Ju, KAIST, Daejeon, Korea	16:40-17:10	<b>Spotlight on Proffered Papers Session 2</b> Crystal Ballroom  <b>Session Cochairs: Jeeyun Lee</b> , Sungkyunkwan University Samsung Medical Center, Seoul, Korea, and <b>Sohrab Shah</b> , Memorial Sloan Kettering Cancer Center, New York, NY, USA
14:15-14:40	<b>Defining a cancer dependencies map</b> William C. Hahn	16:40-16:50	<b>Genome-wide prediction of synthetic rescue mediators of resistance to targeted and immunotherapy*</b> Joo Sang Lee, Cancer Data Science Lab, National Cancer Institute, National Institutes of Health, Bethesda, MD, USA
14:40-15:00	<b>Break</b>	16:50-17:00	<b>Myeloid-derived suppressor cells impair the antitumor activity of PD-1 blockade in gastric cancer*</b> Woosook Kim, Columbia University, New York, NY, USA
15:00-16:40	<b>Plenary Session 5: Immunology: Biomarkers and Therapies</b> Crystal Ballroom  <b>Session Cochairs: Hyunsook Lee</b> , Seoul National University College of Natural Sciences, Seoul, Korea, and <b>Zemin Zhang</b> , Peking University, Beijing, China	17:00-17:10	<b>Humanized N-cadherin monoclonal antibodies demonstrate efficacy in treatment of castration-resistant prostate cancer*</b> Evelyn Kono, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA
		17:15-19:30	<b>Poster Session B and Reception</b> Sapphire Ballroom B

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# CONFERENCE PROGRAM AND SCHEDULE



## SATURDAY, NOVEMBER 17

**07:30-08:30**

### **Breakfast**

Crystal Ballroom Foyer

**08:30-10:10**

### **Plenary Session 6: Novel Targets**

Crystal Ballroom

**Session Cochairs: Young-Joon Surh**, Seoul National University College of Pharmacy, Seoul, Korea, and **Charles L. Sawyers**, Memorial Sloan Kettering Cancer Center, New York, NY, USA

08:30-08:55

### **Mechanisms of acquired resistance to first-line osimertinib: Preliminary data from the phase III FLAURA study**

Byoung Chul Cho, Yonsei University College of Medicine, Seoul, Korea

08:55-09:20

### **Targeting MAT2A in MTAP-deleted cancers**

Katya Marjon, Agios Pharmaceuticals, Cambridge, MA, USA

09:20-09:45

### **Using organoids to model, detect, and treat cancer**

Senthil K. Muthuswamy, Beth Israel Deaconess Medical Center, Boston, MA, USA

09:45-10:10

### **Targeting DNA damage repair: PARP inhibitor and beyond**

Seock-Ah Im, Seoul National University College of Medicine, Seoul, Korea

**10:10-10:40**

### **Break**

**10:40-12:20**

### **Plenary Session 7: Epigenomics**

Crystal Ballroom

**Session Cochairs: Jin-Hyoung Kang**, College of Medicine, The Catholic University of Korea, Seoul, Korea, and **Patrick Trojer**, Constellation Pharmaceuticals, Cambridge, MA, USA

10:40-11:05

### **Precision epigenetic cancer risk diagnosis taking account of our life**

Toshikazu Ushijima, National Cancer Center, Tokyo, Japan

11:05-11:30

### **Targeting the histone lysine methyltransferase EZH2 in metastatic castrate-resistant prostate cancer**

Patrick Trojer

11:30-11:55

### **Whole-genome and epigenomic landscapes of etiologically distinct subtypes of cholangiocarcinoma**

Bin Teh, National Cancer Center, Singapore

11:55-12:20

### **Massively scaled single-cell whole-genome sequencing for studying cancer dynamics**

Sohrab Shah, Memorial Sloan Kettering Cancer Center, New York, NY, USA

**12:20-14:00**

### **Luncheon Symposium and Special Lecture**

12:20-13:00

### **Luncheon Symposium 7**

Crystal Ballroom

*Presented by MSD*

**Session Chair: Dong-Wan Kim**, Seoul University Hospital, Seoul, Korea

### **The definition of “unprecedented”: Unheard of and unrivaled**

Alena Reznichenko, MSD, Asia-Pacific Medical Lead-NSCLC and New Indications, Singapore

13:10-14:00

### **Special Lecture 3**

Crystal Ballroom

**Session Chair: Sun Young Rha**, Yonsei University College of Medicine, Seoul, Korea

### **Biomarker development strategy for pembrolizumab in GI tumors**

Mary J. Savage, MSD/Merck Research Lab, Kenilworth, NJ, USA

- 14:00-15:25**    **Plenary Session 8: Immunology:  
Technologies and Innovations**  
Crystal Ballroom
- Session Cochairs: Young-Joon Kim,**  
Yonsei University, Seoul, Korea and **Michel  
Sadelain,** Memorial Sloan Kettering Cancer  
Center, New York, NY, USA
- 14:00-14:25    **Immune profiling of B lymphocytes in the  
era of cancer immunotherapy**  
Junho Chung, Seoul National University  
College of Medicine, Seoul, Korea
- 14:25-14:50    **CAR therapy: The CD19 paradigm  
and beyond**  
Michel Sadelain
- 14:50-15:15    **A personalized cancer vaccine targeting  
neoepitopes**  
Chang-Yuil Kang, Seoul National University  
College of Pharmacy, Seoul, Korea
- 15:15-15:25    **Multiplex three-dimensional imaging  
cytometry for mapping tumor immune  
microenvironment\***  
Steve Seung-Young Lee, University of Illinois  
at Chicago, Chicago, IL, USA
- 15:25-15:30**    **Closing Remarks**  
Crystal Ballroom
- Tae-You Kim, Seoul National University  
Hospital, Seoul, Korea
- Charles L. Sawyers, Memorial Sloan  
Kettering Cancer Center, New York, NY, USA

*\*Short talk from proffered abstract*