

Second International Summit on Human Genome Editing

Convened by:

**The Academy of Sciences of Hong Kong
The Royal Society
U.S. National Academy of Sciences
U.S. National Academy of Medicine**

Lee Shau Kee Lecture Centre
Centennial Campus
The University of Hong Kong

November 27-29, 2018

AGENDA

Tuesday, 27 November 2018

7:30 am	Registration/Light Breakfast
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8:30 am	Welcome, Introductions, and Opening Remarks
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Moderator: Summit Organizing Committee Chair **David Baltimore**,* California Institute of Technology

Speech: The Hon. Mrs. **Carrie Lam**, Chief Executive, Hong Kong Special Administrative Region

Opening Remarks:

Lap-Chee Tsui, The Academy of Sciences of Hong Kong
John Skehel,* The Royal Society
Victor J. Dzau, U.S. National Academy of Medicine

9:00 am	Genes, Genomes, and Genetic Variation
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Moderator: **Kathryn Song Eng Cheah**, The University of Hong Kong

Speakers: **John Christodoulou**, The University of Melbourne
Pak C. Sham, The University of Hong Kong
Dana Carroll, University of Utah

10:00 am	Discussion with Audience
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10:30 am	Break
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11:00 am	Social and Philosophical Reflections on Manipulating Genetic Variation
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Moderator: **Kazuto Kato**,* Osaka University

Speakers: **Renzhong Qiu**, Chinese Academy of Social Science
Mohammed Ghaly, Hamad Bin Khalifa University
Maurizio Balistreri, Università degli Studi di Torino
Satoshi Kodama, Kyoto University
Margaret Sleeboom-Faulkner, University of Sussex

12:30 pm	Discussion with Audience
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1:00 pm	Lunch
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2:00 pm	The Science of Human Genome Editing
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Moderator: **Duanqing Pei**,* Guangzhou Institutes of Biomedicine and Health

Speakers: **Feng Zhang**, Broad Institute
David R. Liu, Broad Institute
Angelo Lombardo, San Raffaele University
Jennifer Doudna,* University of California, Berkeley

3:15 pm	Discussion with Audience
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3:45 pm	Break
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4:15 pm

Update: Governmental Actions and Advisory Opinions Regarding Human Genome Editing

Moderator: **Jennifer Merchant**,* Université Panthéon-Assas Paris

Speakers: **Xiaomei Zhai**,* Chinese Academy of Medical Sciences and Peking Union Medical College
Hervé Chneiweiss, Centre National de la Recherche Scientifique, France
So Yoon Kim, Yonsei University
S. R. Rao, Ministry of Science and Technology, Government of India
Hidenori Akutsu, National Research Institute for Child Health and Development
Dianne Nicol, University of Tasmania
Tamra Maree Lysaght, National University of Singapore
Lot Chan, Hong Kong Special Administrative Region

6:00 pm

Discussion with Audience

6:30 pm

Adjourn

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Wednesday, 28 November 2018

8:00 am	Registration/Light Breakfast
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8:30 am	Welcome and Overview of Day's Program
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Summit Organizing Committee Chair **David Baltimore,*** California Institute of Technology

8:35 am	Current Research and Clinical Applications: Pathways to Translation
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Moderator: **Y.M. Dennis Lo**, The Chinese University of Hong Kong

Speaker: **George Q. Daley,*** Harvard Medical School

9:00 am	Discussion with Audience
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9:20 am	Blood Disorders – Basic and Translational Research
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Moderator: **Beverley Francis-Gibson**, Sickle Cell Disease Association of America, Inc.

Speakers: **Merlin Crossley**, University of New South Wales, Sydney
Sivaprakash Ramalingam, Institute of Genomics and Integrative Biology
Matthew Porteus,* Stanford University
Junjiu Huang, Sun Yat-sen University
Vence L. Bonham, National Human Genome Research Institute

10:35 am	Discussion with Audience
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11:00 am	Break
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11:30 am	Human Embryo Editing
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Moderator: **Robin-Lovell-Badge**,* The Francis Crick Institute

Speakers: **Kathy Niakan**, The Francis Crick Institute
Paula Amato, Oregon Health & Science University
Maria Jasin, Memorial Sloan Kettering Cancer Institute
Xingxu Huang, Shanghai Tech University
Jiankui He, Southern University of Science and Technology

12:30 pm	Discussion with Audience
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1:00 pm	Lunch
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2:15 pm	Genome Editing of Heritable Diseases: Technical and Societal Considerations
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Moderator: **Richard O. Hynes**, Massachusetts Institute of Technology

Speakers: **Adrian Thrasher**, University College London
R. Rodney Howell, University of Miami
Charles A. Gersbach, Duke University
Pauline McCormack, Newcastle University

3:15 pm	Discussion with Audience
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3:45 pm

Break

4:15 pm

Human Genome Editing: Research Ethics

Moderator: **R. Alta Charo**,* University of Wisconsin, Madison

Speakers: **Bärbel Friedrich**, German National Academy of Sciences Leopoldina
Andy Greenfield, Medical Research Council
Jeffrey Kahn, Johns Hopkins University
Tetsuya Ishii, Hokkaido University
Eben Kirksey, Deakin University

5:30 pm

Discussion with Audience

6:00 pm

Adjourn

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Thursday, 29 November 2018

7:30 am	Registration/Light Breakfast
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8:00 am	Welcome and Overview of Day's Program
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Summit Organizing Committee Chair **David Baltimore**,* California Institute of Technology

8:10 am	Global Perspectives: Somatic and Germline Therapy, Prevention, and Enhancement Applications
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Moderator: **Ayo Whalberg**, University of Copenhagen

Speakers: **Kevin G. Behrens**, University of the Witwatersrand
Guido de Wert, Maastricht University
Peter Mills, Nuffield Council on Bioethics
Yuko Harayama, Tohoku University

9:10 am	Discussion with Audience
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9:30 am	Identifying Basic Principles for Moving Forward
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Moderator: **María de Jesús Medina Arellano**, National Autonomous University of Mexico

Speakers: **Sarah Chan**, University of Edinburgh
Ames Dhai, University of the Witwatersrand
J. Benjamin Hurlbut, Arizona State University
Ock-Joo Kim, Seoul National University

10:30 am	Discussion with Audience
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11:00 am	Break
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11:30 am	Public Engagement Efforts
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Moderator: **Jennifer Doudna**,* University of California, Berkeley

Speakers: **Anna Middleton**, Wellcome Sanger Institute
Joy Y. Zhang, University of Kent
Megan Munsie, University of Melbourne
Masako Takuma, National Museum of Emerging Science and Innovation

12:15 pm	Discussion with Audience
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12:45 pm	Concluding Remarks from the Organizing Committee
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1:00 pm	Discussion with Audience
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1:30 pm	Adjourn
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*Member of Summit Organizing Committee

Second International Summit on Human Genome Editing Breakout Sessions

Breakout Session with Industry

Thursday, November 29, 2018

2:15-4:45 p.m. HKT

Grand Hall, Lee Shau Kee Lecture Centre, The University of Hong Kong

In conjunction with the Second International Summit on Human Genome Editing, this breakout session will provide participants with an opportunity to learn about industry developments in somatic genome editing and associated technologies. In this session, global industry representatives will engage in a question and answer session with the public about industry activity and the associated legal and ethical debates raised by genome editing technologies.

Light lunch will be available one hour prior to this event.

Breakout Session on Embryo and Germline Editing

Thursday, November 29, 2018

2:15-4:45 p.m. HKT

The Wang Gungwu Lecture Hall, Graduate House, The University of Hong Kong

In conjunction with the Second International Summit on Human Genome Editing, this breakout session will focus on the use of genome editing in human embryos and germline cells. The session will provide an opportunity for a more in-depth discussion of the research presented during the summit, an opportunity to discuss other relevant research, and an opportunity to discuss the potential use of genome editing to make alterations that may be heritable.

The session will include presentations from local researchers as well as from researchers around the world.

Light lunch will be available one hour prior to this event.

Let's Talk About Genomics and Genome Editing

Thursday, November 29, 2018

6:30-9:30 p.m. HKT

The Wang Gungwu Lecture Hall, Graduate House, The University of Hong Kong

This event is designed to provide members of the public with a general introduction to genomics and genome editing. It will provide participants with an opportunity to consider scientific and ethical questions related to the use of genome editing and engage in a conversation with experts on these topics.

The event will be simultaneously translated into English, Cantonese and Putonghua.

Light refreshments will be provided.