

Cell Symposium: Precision genomics for human health 2025

Schedule

Wednesday, 17 September, 2025

12:00-13:30	Registration
13:30-13:40	Welcome - Introduction: Cell Press, USA Presentation type: Oral
13:40-14:25	Keynote Speaker 1 - Nancy Cox, Vanderbilt University, USA Presentation type: Oral
14:25-14:55	Session 1: Populations and biobanks Presentation type: Oral 14:25-14:55: Invited speaker 1 - Bogdan Pasaniuc, University of Pennsylvania, USA Polygenic Risk Scores for Genomic Medicine: Promises and Challenges
14:55-15:25	Refreshment break
15:25-16:55	Session 1: Populations and biobanks (Continued) Presentation type: Oral 15:25-15:55: Invited Speaker 2 - Eimear Kenny, Mount Sinai Institute for Genomic Health, USA 15:55-16:25: Short talks 1 & 2 16:25-16:55: Invited Speaker 3 - Daniel Geschwind, University of California Los Angeles, USA
16:55-17:10	Panel discussion Presentation type: Oral
17:10-17:40	Meet the Editors/enrichment session Presentation type: Oral
17:40-18:40	Welcome drinks reception

Thursday, 18 September, 2025

09:00-10:30	Session 2: Genomic diversity and evolution Presentation type: Oral 09:00-09:30: Invited Speaker 4 - David Comas, Pompeu Fabra University, Spain The genomic landscape of the Roma people: diversity, demography, and biomedical impact 09:30-09:45: Short talk 3 09:45-10:15: Invited Speaker 5 - Segun Fatumo, London School of Hygiene and Tropical Medicine, UK Harnessing Africangenome diversity to transform precision medicine for everyone 10:15-10:30: Short talk 4
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10:30-11:00	Refreshment break
11:00-12:15	Session 2: Genomic diversity and evolution (Continued) Presentation type: Oral 11:00-11:30: Invited Speaker 6 - David Enard, University of Arizona, USA The genetic legacy of ancient viral epidemics in human host genomes 11:30-12:00: Invited Speaker 7 - Peter Van Loo, The University of Texas MD Anderson Cancer Center, USA Molecular archeology of cancer 12:00-12:15: Short talk 5
12:15-12:25	Poster teasers
	Presentation type: Oral
12:25-13:00	Lunch
13:00-14:30	Poster Session 1
	Presentation type: Poster
14:30-15:45	Session 3: Cancer genomics Presentation type: Oral 14:30-15:00: Invited Speaker 8 - Paul Mischel, Stanford Medicine, USA 15:00-15:30: Invited Speaker 9 - Xiaole Shirley Liu, GV20 Therapeutics, USA AI-driven next-generation cancer biotherapeutics 15:30-15:45: Short talk 6
15:45-16:15	Refreshment break
16:15-17:30	Session 3: Cancer genomics (continued) Presentation type: Oral 16:15-16:45: Invited Speaker 10 - Chen Wu, National Cancer Center/Cancer Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, China Dynamic genomic and cellular alterations in multi-step cancer development 16:45-17:15: Invited Speaker 11 - Jan Korbel, EMBL Heidelberg, Germany Charting structural variant landscapes and chromosomal instability: insights from population genomics and single-cell resolution 17:15-17:30: Short talk 7
17:30-17:50	Speaker led panel discussion
	Presentation type: Oral
19:00-21:30	Meet the Speakers' dinner (ticket required)

Friday, 19 September, 2025

09:00-10:15

Session 4: Interpreting genetic variation

Presentation type: Oral

09:00-09:30: Invited Speaker 12 - Trey Ideker, University of California, USA

09:30-09:45: Short talk 8

09:45-10:15: Invited Speaker 13 - Han Brunner, Radboud University, The Netherlands | Negative selection and why we have the diseases we have

10:15-10:45

Refreshment break

10:45-12:00

Session 4: Interpreting genetic variation (Continued).

Presentation type: Oral

10:45-11:15: Invited Speaker 14 - Päivi Pajukanta, University of California Los Angeles, USA | Lessons from single cell omics: Discovering cell-type level mechanisms for cardiometabolic disease in Mexicans

11:15-11:45: Invited Speaker 15 - Lluís Quintana-Murci, Institut Pasteur, France | Immune response variation through the lens of population and single-cell genomics

11:45-12:00: Short talk 9

12:00-12:10

Poster teasers

Presentation type: Oral

12:10-13:00

Lunch

13:00-14:30

Poster session 2

Presentation type: Poster

14:30-15:30

Session 5: Functional genomics

Presentation type: Oral

14:30-15:00: Invited Speaker 16 - Kelly Frazer, University of California San Diego, USA

15:00-15:30: Short talks 10 & 11

15:30-16:00

Refreshment break

16:00-16:45

Keynote Speaker 2 - William Greenleaf, Stanford University School of Medicine, USA | Quantifying the physical genome

Presentation type: Oral

16:45-17:00

Conference closing

Presentation type: Oral