

CRISPR and Beyond: Perturbations at Scale to Understand Genomes

22-25 September 2020

Virtual Conference Agenda

Tuesday, 22 September		
13:00	13:05	Welcome <i>Scientific Programme Committee:</i> <i>John Doench, Broad Institute, USA</i> <i>Leopald Parts, Wellcome Sanger Institute, UK</i> <i>Lea Starita, University of Washington, USA</i> <i>Jolanda van Leeuwen, University of Lausanne, Switzerland</i>
13:05	14:40	Session 1: Link to Disease Introduction to the session <i>Chair: Leopald Parts, Wellcome Sanger Institute, UK</i>
13:10	13:30	Genome-wide characterisation of BRCA I functioning in DNA damage repair <i>Sylvie Noordermeer, Leiden University Medical Centre, Netherlands</i>
13:30	13:50	Using Stem Cells to Explore the Genetics Underlying Neuropsychiatric Disease <i>Kristen Breddand, Icahn School of Medicine at Mount Sinai, USA</i>
13:50	14:00	Short talk
14:00	14:10	Short talk
14:10	14:40	Q&A <i>Chair: Leopald Parts, Wellcome Sanger Institute, UK</i> <i>Moderator: Lea Starita, University of Washington, USA</i>
14:40	14:50	Break
14:50	16:25	Session 2: Coding Variation Introduction to the session <i>Chair: John Doench, Broad Institute, USA</i>
14:55	15:15	High throughput humna genetics in yeast <i>Maitreya Dunham, University of Washington, USA</i>
15:15	15:35	Title tbc <i>Lea Starita, University of Washington, USA</i>
15:35	15:45	Short talk
15:45	15:55	Short talk
15:55	16:25	Q&A <i>Chair: John Doench, Broad Institute, USA</i> <i>Moderator: Leopald Parts, Wellcome Sanger Institute, UK</i>
16:25	16:45	Break
16:45	17:00	Poster lightning talks
17:00	18:00	Poster session

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Wednesday, 23 September

13:00	14:35	Session 3: Genetics Screens
Introduction to the session <i>Chair: Sylvie Noordermeer, Leiden University, Netherlands</i>		
13:05	13:25	CRISPR screening for cancer drug discovery <i>Mathew garnett, Wellcome Sanger Institute, UK</i>
13:25	13:45	Optimisation and meta-analysis of genome-scale signals <i>Kenneith Baille, University of Edinburgh, UK</i>
13:45	13:55	Short talk
13:55	14:05	Short talk
14:05	14:35	Q&A <i>Chair: Jolanda van Leeuwen, University of Lausaane, Switzerland</i> <i>Moderator: Sylvie Noordermeer, Leiden University, Netherlands</i>
14:35	14:55	Break
14:55	16:20	Session 4: Rewriting DNA
Introduction to the session <i>Chair: Tom Ellis, Imperial College London, UK</i>		
14:50	15:10	Gene editing and high-throughput functional genomics <i>Wensheng Wei, Peking University, China</i>
15:10	15:30	Recording cellular and molecular events in DNA <i>Nozomu Yachie, University of British Columbia, Canada</i>
15:30	15:40	Short talk
15:40	15:50	Short talk
15:50	16:20	Q&A <i>Chair: Lea Staria, University of Washington, USA</i> <i>Moderator: Tom Ellis, Imperial College London, UK</i>
16:20	16:40	Break
16:40	16:55	Poster lightning talks
16:55	17:55	Poster session

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Thursday, 24 September

13:00	14:35	Session 5: Policy
Introduction to the session <i>Chair: Jolanda van Leeuwen, University of Lausanne, Switzerland</i>		
13:05	13:25	Engagement of DNA repair pathways in the repair of CRISPR-Cas-induced breaks <i>Joanna Louzou, Research Centre for Molecular Medicine, Austria</i>
13:25	13:35	Short talk
13:35	13:45	Short talk
13:45	13:55	Short talk
13:55	14:05	Short talk
14:05	14:35	Q&A <i>Chair: Jolanda van Leeuwen, University of Lausanne, Switzerland</i> <i>Moderator: John Doench, Broad Institute, USA</i>
14:35	14:55	Break
14:55	16:30	Session 6: Single Cell + Perturbation
Introduction to the session <i>Chair: Shondra Pruett-Miller, St Jude Children's Research Hospital, USA</i>		
15:00	15:20	Biochemistry at single-cell resolution: a new approach to understand functional heterogeneity <i>Jay Hesselberth, University of Colorado School of Medicine, USA</i>
15:20	15:40	Title tbc <i>Sarah Teichman, Wellcome Sanger Institute, UK</i>
15:40	15:50	Short talk
15:50	16:00	Short talk
16:00	16:30	Q&A <i>Chair: Jolanda van Leeuwen, University of Lausanne, Switzerland</i> <i>Moderator: Shondra Pruett-Miller, St Jude Children's Research Hospital, USA</i>
16:30	16:50	Break
16:50	17:05	Poster lightning talks
17:05	18:05	Poster session

Friday, 25 September

13:00	14:35	Session 7: Technology
Introduction to the session <i>Chair: Mathew Garnett, Wellcome Sanger Institute, UK</i>		
13:05	13:25	Tricks of the Trade: Functionalizing Genome Editing for a Broad Range of Cellular Targets <i>Shondra Pruett-Miller, St Jude Children's Research Hospital, USA</i>

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13:25	13:45	Exploring the flexibility of a eukaryotic genome using synthetic yeast <i>Tom Ellis, Imperial College London, UK</i>
13:45	13:55	Short talk
13:55	14:05	Short talk
14:05	14:35	Q&A <i>Chair: Jolanda van Leeuwen, University of Lausanne, Switzerland</i> <i>Moderator: John Doench, Broad Institute, USA</i>

14:35	14:55	Break
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14:55 Session 8: Non-coding Variation

		Introduction to the session <i>Chair: Leopald Parts, Wellcome Sanger Institute, UK</i>
15:00	15:20	CRISPR, cancer and long noncoding RNAs <i>Rory Johnson, University College Dublin, Ireland</i>
15:20	15:30	Short talk
15:30	15:40	Short talk
15:40	16:10	Q&A <i>Chair: Jolanda van Leeuwen, University of Lausanne, Switzerland</i> <i>Moderator: Shondra Pruett-Miller, St Jude Children's Research Hospital, USA</i>

16:10 16:20 Closing remarks

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John Doench, Broad Institute, USA
Leopald Parts, Wellcome Sanger Institute, UK
Lea Starita, University of Washington, USA
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