

# Genome Informatics

14-16 September 2020

## Virtual Conference Agenda

### Monday, 14 September

13:00	13:05	Welcome
<i>Scientific Programme Committee:</i> <i>Joanna Kelley, Washington State University, USA</i> <i>Nick Loman, University of Birmingham, UK</i> <i>Alicia Oshlack, Murdoch Children's Research Institute, Australia</i> <i>Oliver Stegle, German Cancer Research Center &amp; EMBL Heidelberg, Germany</i>		
13:05	13:35	Keynote 1
13:05	13:25	Talk title TBC <i>Ewan Birney, EMBL-EBI, UK</i>
13:25	13:35	Q&A <i>Chair: TBC</i> <i>Moderator: TBC</i>
13:35	14:35	Session 1: Transcriptomics
Introduction to the session <i>Chair: Pall Melsted, University of Iceland, Iceland</i>		
13:35	13:50	Deep representation learning for problems in biology <i>Smita Krishnaswamy, Yale University, USA</i>
13:50	14:05	Short talk
14:05	14:20	Short talk
14:20	14:35	Q&A <i>Chair: Pall Melsted, University of Iceland, Iceland</i> <i>Moderator: TBC</i>
14:35	14:50	Break
14:50	15:50	Session 1: Transcriptomics
Introduction to the session <i>Chair: Smita Krishnaswamy, Yale University, USA</i>		
14:50	15:05	Fast and modular processing of single cell RNA-seq datasets with kallisto and bustools <i>Pall Melsted, University of Iceland, Iceland</i>
15:05	15:20	Short talk
15:20	15:35	Short talk
15:35	15:50	Q&A <i>Chair: Smita Krishnaswamy, Yale University, USA</i> <i>Moderator: TBC</i>
15:50	16:05	Break
16:05	16:20	Poster lightning talks
16:20	16:50	Poster session

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## Tuesday, 15 September

<b>13:00</b>			<b>14:00</b>			<b>Session 2: Evolution, Complex Traits and Phylogenetics</b>		
						Introduction to the session <i>Chair: Oliver Pybus, University of Oxford, UK</i>		
13:00		13:15		Charting mutation spectrum variation across the genome and the tree of life <i>Kelley Harris, University of Washington, USA</i>				
13:15		13:30		Short talk				
13:30		13:45		Short talk				
13:45		14:00		Q&A <i>Chair: Oliver Pybus, University of Oxford, UK</i> <i>Moderator: TBC</i>				
14:00			14:15			Break		
<b>14:15</b>			<b>16:00</b>			<b>Session 2: Evolution, Complex Traits and Phylogenetics</b>		
						Introduction to the session <i>Chair: Kelley Harris, University of Washington, USA</i>		
14:15		14:30		Talk title TBC <i>Oliver Pybus, University of Oxford, UK</i>				
14:30		14:45		Short talk				
14:45		15:00		Short talk				
15:00		15:15		Q&A <i>Chair: Kelley Harris, University of Washington, USA</i> <i>Moderator: TBC</i>				
15:15		15:30		Poster lightning talks				
15:30		16:00		Poster session				
16:00			16:30			Break		
<b>16:30</b>			<b>17:30</b>			<b>Session 3: Sequencing Algorithms, Variant Discovery and Genome Assembly</b>		
						Introduction to the session <i>Chair: Titus Brown, University of California, Davis, USA</i>		
16:30		16:45		Genetic and epigenetic maps of human centromeric regions <i>Karen Miga, University of California, Santa Cruz, USA</i>				
16:45		17:00		Short talk				
17:00		17:15		Short talk				
17:15		17:30		Q&A <i>Chair: Titus Brown, University of California, Davis, USA</i> <i>Moderator: Joanna Kelley, Washington State University, USA</i>				
17:30			18:00			Break		

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18:00 19:45 Session 3: Sequencing Algorithms, Variant Discovery and Genome Assembly		
Introduction to the session <i>Chair: Karen Miga, University of California, Santa Cruz, USA</i>		
18:00	18:15	Talk title TBC <i>Titus Brown, University of California, Davis, USA</i>
18:15	18:30	Short talk
18:30	18:45	Short talk
18:45	19:00	Q&A <i>Chair: Karen Miga, University of California, Santa Cruz, USA</i> <i>Moderator: Joanna Kelley, Washington State University, USA</i>
19:00	19:15	Poster lightning talks
19:15	19:45	Poster session

## Wednesday, 16 September

13:00 14:00 Session 4: Microbial and Metagenomics		
Introduction to the session <i>Chair: Alice McHardy, Helmholtz Centre for Infection, Germany</i>		
13:00	13:15	What genomic epidemiology tells us about the role of horizontal gene transfer in bacterial evolution <i>Rafal Mostowy, Jagiellonian University, Poland</i>
13:15	13:30	Short talk
13:30	13:45	Short talk
13:45	14:00	Q&A <i>Chair: Alice McHardy, Helmholtz Centre for Infection, Germany</i> <i>Moderator: TBC</i>
14:00	14:15	Break
14:15 16:00 Session 4: Microbial and Metagenomics		
Introduction to the session <i>Chair: Rafal Mostowy, Jagiellonian University, Poland</i>		
14:15	14:30	Critical Assessment of Metagenome Interpretation - the Second Round of Challenges <i>Alice McHardy, Helmholtz Centre for Infection, Germany</i>
14:30	14:45	Short talk
14:45	15:00	Short talk
15:00	15:15	Q&A <i>Chair: Rafal Mostowy, Jagiellonian University, Poland</i> <i>Moderator: TBC</i>
15:15	15:30	Poster lightning talks
15:30	16:00	Poster session

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16:00	16:30	Break
<b>16:30</b>	<b>17:30</b>	<b>Session 5: Personal and Medical Genomics</b>
		Introduction to the session <i>Chair: Christoph Bock, CeMM Research Center for Molecular Medicine, Vienna, Austria</i>
16:30	16:45	Data sharing and individual privacy <i>Lucila Ohno-Machado, University of California, San Diego, USA</i>
16:45	17:00	Short talk
17:00	17:15	Short talk
17:15	17:30	Q&A <i>Chair: Christoph Bock, CeMM Research Center for Molecular Medicine, Vienna, Austria</i> <i>Moderator: Joanna Kelley, Washington State University, USA</i>
17:30	18:00	Break
<b>18:00</b>	<b>19:45</b>	<b>Session 5: Personal and Medical Genomics</b>
		Introduction to the session <i>Chair: Lucila Ohno-Machado, University of California, San Diego, USA</i>
18:00	18:15	Single-cell Analysis of Epigenetic Disease Landscapes and Induced Perturbations <i>Christoph Bock, CeMM Research Center for Molecular Medicine, Vienna, Austria</i>
18:15	18:30	Short talk
18:30	18:45	Short talk
18:45	19:00	Q&A <i>Chair: Lucila Ohno-Machado, University of California, San Diego, USA</i> <i>Moderator: Joanna Kelley, Washington State University, USA</i>
19:00	19:15	Poster lightning talks
19:15	19:45	Poster session
<b>19:45</b>	<b>19:50</b>	<b>Closing remarks</b>
		<b>Scientific Programme Committee:</b> <i>Joanna Kelley, Washington State University, USA</i> <i>Nick Loman, University of Birmingham, UK</i> <i>Alicia Oshlack, Murdoch Children's Research Institute, Australia</i> <i>Oliver Stegle, German Cancer Research Center &amp; EMBL Heidelberg, Germany</i>