

Virtual Conference Agenda

Start	Finish	Presenter details
(GMT)	(GMT)	

Wednesday 9 February 2022		
12:00	12:10	Welcome
		Scientific Programme Committee: Juliette de Meaux, University of Cologne, Germany Brandon Ogbunu, Yale University, USA Olivier Tenaillon, INSERM, France Trisha Wittkopp, University of Michigan, USA
12:10	12:55	Keynote 1
		Introduction to the session Chair: Olivier Tenaillon, INSERM, France
12:10	12:40	Evolving adaptive reproductive capacity: a systems approach using Drosophila models Cassandra Extavour, Harvard University, USA
12:40	12:55	Q&A Chair: Olivier Tenaillon, INSERM, France Moderator: Juliette de Meaux, University of Cologne, Germany
12:55	13:15	Break and networking in Spatial Chat
13:15	14:45	Session 1: Evolution of proteins
		Introduction to the session Chair: Juliette de Meaux, University of Cologne, Germany
13:15	13:35	An evolutionary synthetic biology approach to explore life's origins and early history Betül Kaçar, University of Wisconsin-Madison, USA
13:35	13:55	Causes and consequences of epistasis in protein evolution Nobuhiko Tokuriki, University of British Columbia, Canada
13:55	14:05	Compensatory mutations in proteins: which where how? Julien Dutheil, Max Planck Institute for Evolutionary Biology, Germany



14:05	14:15	Evolutionarily transient coding sequences influence cellular phenotypes and function Aaron Wacholder, University of Pittsburgh School of Medicine, USA
14:15	14:45	Q&A Chair: Juliette de Meaux, University of Cologne, Germany Moderator: Olivier Tenaillon, INSERM, France
14:45	15:10	Break and networking in Spatial Chat
15:10	16:00	Poster Session I
15:10	15:30	Poster session I lightning talks
15:30	16:00	Poster session I
16:00	17:30	Session 2: Evolution of molecular systems
		Introduction to the session Chair: Trisha Wittkopp, University of Michigan, USA
16:00	16:20	The molecular evolution of spermatogenesis across mammals Henrik Kaessmann, Heidelberg University, Germany
16:20	16:40	A genome-wide screen for genes that "buffer" the effect of random mutations Kevin Verstrepen, VIB-KULeuven Center for Microbiology, Belgium
16:40	16:50	The cis-regulatory effects of modern human-specific variants David Gokhman, The Weizmann Institute of Science, Israel
16:50	17:00	Fitness landscape analysis reveals that the wild type allele is sub-optimal and mutationally robu Tamar Friedlander, Hebrew University of Jerusalem, Israel
17:00	17:30	Q&A Chair: Trisha Wittkopp, University of Michigan, USA Moderator: Brandon Ogbunu, Yale University, USA



Thursday 10 February 2022

12:00	13:30	Session 3: Evolution of microbial systems
		Introduction to the session Chair: Juliette de Meaux, University of Cologne, Germany
12:00	12:20	A population genetic framework to understand evolution and transmission of drug resistance Pleuni Pennings, San Franciso State University, USA
12:20	12:40	Epistasis and adaptation on rugged fitness landscapes Claudia Bank, University of Bern, Switzerland
12:40	12:50	Evolution of genome architecture to divide labor through mutations Renske Vroomans, Sainsbury Laboratory, University of Cambridge, UK
12:50	13:00	Wrinkly formation underlies bacterial adaption to a host-associated lifestyle Nancy Obeng, Kiel University, Germany
13:00	13:30	Q&A Chair: Juliette de Meaux, University of Cologne, Germany Moderator: Olivier Tenaillon, INSERM, France
13:30	14:00	Break and networking in Spatial Chat
14:00	14:50	Poster Session II
14:00	14:20	Poster session II lightning talks
14:20	14:50	Poster session II
14:50	16:20	Session 4: Evolution of developmental systems
		Introduction to the session Chair: Brandon Ogbunu, Yale University, USA
14:50	15:10	Evolution of sex determining mechanisms in the brown algae Susana Coelho, Max Planck Institute for Developmental Biology, Germany
15:10	15:30	HD-ZIPIII transcription factors are controlled by deeply-conserved START domains Aman Husbands, The Ohio State University, USA
15:30	15:40	The evolution of developmental genetic biases explains the evolution of evolutionary trends Joao Picao-Osorio, Institute of Biology of the École Normale Supérieure (IBENS), France



15:40	15:50	The cellular and molecular patterning dynamics of tetrapod digit diversification
		Patrick Tschopp, University of Basel, Switzerland
15:50	16:20	Q&A Chair: Brandon Ogbunu, Yale University, USA

Moderator: Trisha Wittkopp, University of Michigan, USA

Friday 11 February 2022

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12:00	13:30	Session 5: Evolutionary quantitative genetics and environmental interactions
		Introduction to the session Chair: Brandon Ogbunu, Yale University, USA
12:00	12:20	Parallel reduction in flowering time from new mutations enabled evolutionary rescue in colonizing Arabidopsis lineages Angela Hancock, Max Planck Institute for Plant Breeding Research, Germany
12:20	12:40	A genomic map of local adaptation of natural interactions between <i>Arabidopsis thaliana</i> and its leaf microbiota Fabrice Roux, Laboratory of Plant-Microbe Interactions – LIPM, France
12:40	12:50	Selection and gene flow shape niche-associated variation of pheromone response Erik Andersen, Northwestern University, USA
12:50	13:00	Evolution under changing environments in a laboratory evolution experiment of Escherichia coli Maryl Lambros, Albert Einstein College of Medicine, USA
13:00	13:30	Q&A Chair: Brandon Ogbunu, Yale University, USA Moderator: Juliette de Meaux, University of Cologne, Germany
13:30	13:50	Break and networking in Spatial Chat
13:50	15:20	Session 6: Evolution impacting human health
		Introduction to the session Chair: Olivier Tenaillon, INSERM, France
13:50	14:10	Evolutionary dynamics of blood Jamie Blundell, University of Cambridge, UK
14:10	14:30	Within-host diversity and transmission of SARS-CoV-2 Katrina Lythgoe, University of Oxford, UK



14:30	14:40	Exploiting convergent evolution to derive a pan-cancer cisplatin sensitivity gene expression Jessica Scarborough, Case Western Reserve University, USA
14:40	14:50	Proteomic compensation by paralogs contributes to the genetic robustness of tumour cells Anjan Venkatesh, University College Dublin, Ireland
14:50	15:20	Q&A Chair: Olivier Tenaillon, INSERM, France Moderator: Trisha Wittkopp, University of Michigan, USA
15:20	15:40	Break and networking in Spatial Chat
15:40	16:30	Keynote 2
		Introduction to the session Chair: Trisha Wittkopp, University of Michigan, USA
15:40	16:10	Understanding adaptation in an infinitesimal world Nick Barton, IST Austria, Austria
16:10	16:30	Q&A Chair: Trisha Wittkopp, University of Michigan, USA Moderator: Olivier Tenaillon, INSERM, France
16:30	16:40	Closing remarks
		Scientific Programme Committee: Juliette de Meaux, University of Cologne, Germany Brandon Ogbunu, Yale University, USA Olivier Tenaillon, INSERM, France Trisha Wittkopp, University of Michigan, USA