



Transcription and Chromatin - Virtual

14TH EMBL CONFERENCE

We have moved our website to embl.org/events. The content below is no longer being updated.

EMBL Courses and Conferences during the Coronavirus pandemic

With the onsite programme paused, many of our events are now being offered in virtual formats.

Registration is open as usual for many events, with back-up plans in place to move further courses and conferences online as necessary. Registration fees for any events affected by the COVID-19 disruption are fully refundable.

More information for participants of events at EMBL Heidelberg can be found [here](#).

Programme

Registered participants for the virtual conference were sent final details, including links to virtual platforms, on Thursday 20 August. The link to the live stream will be sent on Wednesday 26 August

Got something to say? Tweet it! [#EMBLTranscript](#)

To find out the equivalent time zone in your location, enter Berlin, the CEST programme time and your city into the [Time Zone Converter](#).

- The virtual conference includes live-streamed invited speaker and short talks with Q&A sessions after each talk.
- Information on the live stream and access to the discussion platform and digital posters will be provided shortly before the start of the event.
- Access to any talks that are recorded will be available until Saturday 5 September 2020.

The following times are used in the programme below:

- Central European Summer Time (CEST): eg. Berlin, Amsterdam, Paris
- Eastern Daylight Time (EDT): eg. New York, Quebec

Day 1 - Thursday 27 August 2020

Time	Speaker
14:00 - 14:10 (CEST)	Opening remarks
08:00 - 08:10 (EDT)	
14:10 - 16:10 (CEST)	Virtual Session 1 Chairs: Eileen Furlong, <i>EMBL Heidelberg, Germany</i> and Jürg Müller, <i>Max Planck Institute of Biochemistry, Germany</i>
08:10 - 10:10 (EDT)	
14:10 - 14:30 (CEST)	New insights into the mechanisms of chromatin transcription Patrick Cramer - <i>Max Planck Institute for Biophysical Chemistry, Germany</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
08:10 - 08:30 (EDT)	
14:30 - 14:50 (CEST)	Dynamic imaging of nascent RNA reveals general principles of transcription dynamics Daniel R. Larson - <i>National Cancer Institute, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
08:30 - 08:50 (EDT)	
14:50 - 15:05 (CEST)	Attenuation of vertebrate transcription by termination factor PCF11 Kinga Kamieniarz-Gdula - <i>Adam Mickiewicz University, Poland</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
08:50 - 09:05 (EDT)	
15:05 - 15:15 (CEST)	Short break
09:05 - 09:15 (EDT)	
15:15 - 15:35 (CEST)	Cell-type specialization in the brain is encoded by specific long-range chromatin topologies Ana Pombo - <i>Max Delbrück Center for Molecular Medicine, Germany</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
09:15 - 09:35 (EDT)	

Time	Speaker
15:35 - 15:50 (CEST) 09:35 - 09:50 (EDT)	Chromatin Hyperacetylation Impacts Chromosome Folding by Forming a Nuclear Subcompartment Kyle Eagen - <i>Northwestern University, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
15:50 - 16:10 (CEST) 09:50 - 10:10 (EDT)	The Logic of Long-Range Hox Genes Transcription Denis Duboule - <i>University of Geneva and École Polytechnique Fédérale de Lausanne, Switzerland</i>
16:10 - 16:40 (CEST) 10:10 - 10:40 (EDT)	Break
16:40 - 20:45 (CEST) 10:40 - 14:35 (EDT)	Virtual Session 2 Chairs: Ana Pombo - <i>Max Delbrück Center for Molecular Medicine, Germany</i> and Wouter de Laat - <i>Hubrecht Institute, The Netherlands</i>
16:40 - 17:00 (CEST) 10:40 - 11:00 (EDT)	Genome-wide mapping of protein-DNA interaction dynamics Steven Henikoff - <i>Fred Hutchinson Cancer Research Center, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
17:00 - 17:15 (CEST) 11:00 - 11:15 (EDT)	How can transcription factors bind their motif hidden in nucleosomes? Alicia Michael - <i>Friedrich Miescher Institute for Biomedical Research, Switzerland</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
17:15 - 17:35 (CEST) 11:15 - 11:35 (EDT)	Molecular mechanisms governing cell identity, differentiation and cancer processes Luciano Di Croce - <i>Centre for Genomic Regulation, Spain</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
17:35 - 17:45 (CEST) 11:35 - 11:45 (EDT)	Short break
17:45 - 18:05 (CEST) 11:45 - 12:05 (EDT)	Interplay between CTCF boundaries and a super enhancer controls cohesin extrusion trajectories and gene expression Wouter de Laat - <i>Hubrecht Institute, The Netherlands</i> AVAILABLE ON DEMAND AFTER LIVE STREAM

Time	Speaker
18:05 - 18:20 (CEST)	Shining light on nuclear protein function: Extremely dynamic, reversible, and efficient perturbation of nuclear factors in embryos
12:05 - 12:20 (EDT)	Anna Kögler - <i>EMBL Heidelberg, Germany</i>
18:20 - 18:35 (CEST)	Dynamics of the 4D genome during in vivo lineage specification and differentiation
12:20 - 12:35 (EDT)	Marieke Oudelaar - <i>University of Oxford, UK</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
18:35 - 19:15 (CEST)	Break
12:35 - 13:15 (EDT)	
19:15 - 19:35 (CEST)	How subtle changes in 3D structure create large changes in transcription – lessons from super-resolution imaging and mathematical modeling
13:15 - 13:35 (EDT)	Alistair Boettiger - <i>Stanford University, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
19:35 - 19:50 (CEST)	Nonlinear control of transcription levels through enhancer-promoter interactions
13:35 - 13:50 (EDT)	Luca Giorgetti - <i>Friedrich Miescher Institute for Biomedical Research, Switzerland</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
19:50 - 20:10 (CEST)	Bivalent Polycomb complexes as master switches of developmental gene regulation
13:50 - 14:10 (EDT)	Mitzi I. Kuroda - <i>Harvard Medical School, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
20:10 - 20:25 (CEST)	Regulation of transcriptional bursting by core promoter elements
14:10 - 14:25 (EDT)	Takashi Fukaya - <i>University of Tokyo, Japan</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
20:25 - 20:45 (CEST)	Epigenetic regulation of the X chromosome
14:25 - 14:45 (EDT)	Asifa Akhtar - <i>Max Planck Institute of Immunobiology and Epigenetics, Germany</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
20:45 - 21:00 (CEST)	Short break before virtual speed networking
14:45 - 15:00 (EDT)	

Time**Speaker**

21:00 - 22:00

(CEST)

15:00 - 16:00

(EDT)

Optional: Virtual Speed Networking (using Zoom, pre-registration required)

22:00 (CEST)

16:00 (EDT)

End of Day 1 - Continued access to digital posters, networking and discussion platforms and recorded talks (after they are live streamed)**Day 2 - Friday 28 August 2020****Time****Speaker****Continued access to digital posters, networking and discussion platforms, recorded talks (after they are live streamed)**

14:00 - 16:15

(CEST)

08:00 - 10:10

(EDT)

Virtual Session 3Chair: Marc Timmers - *University of Freiburg and German Cancer Research Centre, Germany*

14:00 - 14:20

(CEST)

08:00 - 08:20

(EDT)

Epigenomic dynamics for transient germline competence and induction of human primordial germ cell fateAzim Surani - *Wellcome Trust/CRUK Gurdon Institute, UK*

14:20 - 14:35

(CEST)

08:20 - 08:35

(EDT)

The maternal transcriptome is defined by a novel TBPL2 (TBP2/TRF3)/TFIIA complexLaszlo Tora - *Institute of Genetics and Molecular and Cellular Biology (IGBMC)/CNRS, France***AVAILABLE ON DEMAND AFTER LIVE STREAM**

14:35 - 14:50

(CEST)

08:35 - 08:50

(EDT)

Quantitative imaging of transcription in living Drosophila embryos reveals the impact of core promoter motifs on transcriptional statesMounia Lagha - *CNRS, France*

14:50 - 15:10

(CEST)

08:50 - 09:10

(EDT)

Imprinting control by the combined presence of PRC2-mediated H3K27me3 and SUVH-mediated H3K9me2 in the Arabidopsis endospermClaudia Köhler - *Swedish University of Agricultural Sciences, Sweden***AVAILABLE ON DEMAND AFTER LIVE STREAM**

15:10 - 15:20

(CEST)

09:10 - 09:20

(EDT)

Short break

15:20 - 15:40 (CEST) 09:20 - 09:40 (EDT)	Structural insights into the RNA polymerase I and III transcription cycles Christoph Müller - <i>EMBL Heidelberg, Germany</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
15:40 - 15:55 (CEST) 09:40 - 09:55 (EDT)	Drosophila SWR1 and NuA4 complexes are defined by DOMINO isoforms Peter Becker - <i>Ludwig-Maximilians-Universität München, Germany</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
15:55 - 16:15 (CEST) 09:55 - 10:15 (EDT)	Chromatin Replication and Epigenome Maintenance Anja Groth - <i>University of Copenhagen, Denmark</i>
16:15 - 16:45 (CEST) 10:45 - 12:15 (EDT)	Break
16:45 - 18:15 (CEST) 12:15 - 16:40 (EDT)	Virtual Poster Session 1 (all posters)
18:15 - 21:45 (CEST) 12:15 - 15:45 (EDT)	Virtual Session 4 Chairs: Anja Groth - <i>University of Copenhagen, Denmark</i> and Jürg Müller - <i>Max Planck Institute of Biochemistry, Germany</i>
18:15 - 18:35 (CEST) 12:15 - 12:35 (EDT)	FACT and its interactions with the nucleosome Karolin Luger - <i>University of Colorado Boulder, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
18:35 - 18:50 (CEST) 12:35 - 12:50 (EDT)	Molecular function of the histone H3.3 lysine 4 and lysine 36 residues in stem cells and neurons Kyung-Min Noh - <i>EMBL Heidelberg, Germany</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
18:50 - 19:10 (CEST) 12:50 - 13:10 (EDT)	Dynamic control mechanisms of chromatin access Beat Fierz - <i>École Polytechnique Fédérale de Lausanne, Switzerland</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
19:10 - 19:15 (CESY) 13:10 - 13:15 (EDT)	Short break

19:15 - 19:35 (CEST)	Nucleosome compaction, phase separation, and Polycomb-Group maintenance of repression
13:15 - 13:35 (EDT)	Robert Kingston - <i>Harvard Medical School, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
19:35 - 19:55 (CEST)	Functional analyses of the carboxy-terminal domain of RNA polymerase II in Drosophila
13:35 - 13:55 (EDT)	David Gilmour - <i>The Pennsylvania State University, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
19:55 - 20:35 (CEST)	Break
13:55 - 14:35 (EDT)	
20:35 - 20:55 (CEST)	Studying dynamics in transcription activation, initiation, and elongation
14:35 - 14:55 (EDT)	Steve Buratowski - <i>Harvard Medical School, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
20:55 - 21:10 (CEST)	Structural basis for PRC2 decoding of the active histone methylation marks H3K36me2/3
14:55 - 15:10 (EDT)	Ksenia Finogenova - <i>Max Planck Institute of Biochemistry, Germany</i>
21:10 - 21:25 (CEST)	JARID2 and AEBP2 recognize H2A ubiquitination to regulate PRC2 activity
15:10 - 15:25 (EDT)	Vignesh Kasinath - <i>University of California Berkeley, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
21:25 - 21:45 (CEST)	Unmasking cross-talk between histone ubiquitination and methylation
15:25 - 15:45 (EDT)	Cynthia Wolberger - <i>Johns Hopkins University School of Medicine, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
21:45 - 22:00 (CEST)	Short break before virtual bar mixer
15:45 - 16:00 (EDT)	
22:00 - 23:00 (CEST)	Optional: Virtual Bar Mixer (see #livingroom channel in Slack for login details)
16:00 - 17:00 (EDT)	
23:00 (CEST)	End of Day 2 - Continued access to digital posters, networking and discussion platforms and recorded talks (after they are live streamed)
17:00 (EDT)	

Day 3 - Saturday 29 August 2020

Time Speaker

Continued access to digital posters, networking and discussion platforms and recorded talks (after they are live streamed)

14:00 - 16:15
(CEST)

08:00 - 10:10
(EDT)

Virtual Session 5

Chair: Peter Becker - Ludwig-Maximilians-Universität München, Germany

14:00 - 14:20
(CEST)

08:00 - 08:20
(EDT)

Two transcriptional networks that link ribosome biogenesis to growth and stress signals in yeast

David Shore - *University of Geneva, Switzerland*

AVAILABLE ON DEMAND AFTER LIVE STREAM

14:20 - 14:40
(CEST)

08:20 - 08:40
(EDT)

Control of TBP localization and greenCUT&RUN

Marc Timmers - *University of Freiburg and German Cancer Research Centre, Germany*

AVAILABLE ON DEMAND AFTER LIVE STREAM

14:40 - 14:55
(CEST)

08:40 - 08:55
(EDT)

Single-molecule characterization of transcription factor cooperative binding at mouse cis-regulatory elements

Arnaud Krebs - *EMBL Heidelberg, Germany*

AVAILABLE ON DEMAND AFTER LIVE STREAM

14:55 - 15:15
(CEST)

08:55 - 09:15
(EDT)

Mechanistic Insights into Chromatin Remodeling

Zhucheng Chen - *Tsinghua University, China*

15:15 - 15:25
(CEST)

09:15 - 09:25
(EDT)

Short break

15:25 - 15:40
(CEST)

09:25 - 09:40
(EDT)

Transcription and chromatin control by ubiquitin specific protease 7 (USP7)

Ayestha Sijm - *Erasmus University Medical Center, The Netherlands*

15:40 - 15:55
(CEST)

09:40 - 09:55
(EDT)

Enhancer disruption and PRC2 sequestration by H3.3-K27M impedes neurodevelopmental gene expression in human fetal hindbrain NSCs

Adrian Bracken - *Trinity College Dublin, Ireland*

AVAILABLE ON DEMAND AFTER LIVE STREAM

15:55 - 16:15
(CEST)

09:55 - 10:15
(EDT)

Polycomb, Inheritance and Disease

Danny Reinberg - *Howard Hughes Medical Institute at NYU Langone School of Medicine, USA*

16:15 - 16:45

(CEST)

10:15 - 10:45

(EDT)

Break

16:45 - 18:15

(CEST)

10:45 - 12:15

(EDT)

Virtual Poster Session 2 (all posters)

18:15 - 22:00

(CEST)

12:15 - 16:00

(EDT)

Virtual: Session 6

Chair: Karen Adelman - *Harvard Medical School, USA* and Peter Verrijzer - *Erasmus University Medical Center, The Netherlands*

18:15 - 18:35

(CEST)

12:15 - 12:35

(EDT)

Making faces: transcriptional enhancers and emergence of form and function during development and evolution.

Joanna Wysocka - *Stanford University, USA*

AVAILABLE ON DEMAND AFTER LIVE STREAM

18:35 - 18:55

(CEST)

12:35 - 12:55

Principles of epigenetics and chromatin in development and human disease

Ali Shilatifard - *Northwestern University Feinberg School of Medicine, USA*

18:55 - 19:10

(CEST)

12:55 - 13:10

(EDT)

Decoding sequence contributions to transcription elongation and termination

Hanneke Vlaming - *Harvard Medical School, USA*

AVAILABLE ON DEMAND AFTER LIVE STREAM

19:10 - 19:15

(CEST)

13:10 - 13:15

(EDT)

Short break

19:15 - 19:35

(CEST)

13:15 - 13:35

(EDT)

Integrator is a genome-wide attenuator of non-productive transcription

Torben Heick Jensen - *Aarhus University, Denmark*

AVAILABLE ON DEMAND AFTER LIVE STREAM

19:35 - 19:55

(CEST)

13:35 - 13:55

(EDT)

Transcriptional repression during heat shock

Jesper Svejstrup - *The Francis Crick Institute, UK*

AVAILABLE ON DEMAND AFTER LIVE STREAM

19:55 - 20:35

(CEST)

13:55 - 14:35

(EDT)

Break

20:35 - 20:50 (CEST)	Structure of complete mammalian RNA polymerase II-DSIF-PAF-SPT6 complex reveals novel RTF1 allosteric activation mechanism
14:35 - 14:50 (EDT)	Seychelle Vos - <i>Massachusetts Institute of Technology, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
20:50 - 21:05 (CEST)	Single-gene live-cell imaging reveals links between genome organization, promoter-enhancer communication and transcription control
14:50 - 15:05 (EDT)	Alexandros Pertsinidis - <i>Memorial Sloan Kettering Cancer Center, USA</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
21:05 - 21:25 (CEST)	A first exon termination checkpoint that preferentially suppresses extragenic transcription
15:05 - 15:25 (EDT)	Gioacchino Natoli - <i>Humanitas University, Italy</i>
21:25 - 21:40 (CEST)	High-resolution analysis of cell-state transitions in yeast reveals widespread transcriptional tuning by alternative starts
15:25 - 15:40 (EDT)	Folkert van Werven - <i>Francis Crick Institute, UK</i> AVAILABLE ON DEMAND AFTER LIVE STREAM
21:40 - 22:00 (CEST)	Epigenetic pathways as targets in human disease
15:40 - 16:00 (EDT)	Shelley L. Berger - <i>University of Pennsylvania, USA</i>
22:00 - 22:10 (CEST)	
16:00 - 16:10 (EDT)	Closing
	End of Conference - Access to digital posters, networking and discussion platforms and recorded talks will be available until Saturday 5 September