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 The content below is no longer being updated.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

The final programme is available as a PDF here.

Got something to say? Tweet it! #EMBOevoeco

Day 1 - Wednesday, 17 October 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>15:30-17:00</td>
<td>Registration</td>
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<tr>
<td>Time</td>
<td>Speaker</td>
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<tr>
<td>17:00 – 17:15</td>
<td><strong>Opening remarks</strong></td>
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<td>17:15 – 17:45</td>
<td><strong>Writing genomes</strong></td>
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<td></td>
<td>Jef Boeke - New York University, USA</td>
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<td>17:45 – 18:15</td>
<td><strong>WHO's yo' Momma, HO?</strong></td>
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<td>Ken Wolfe - University College Dublin, Ireland</td>
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<td>18:15 – 18:45</td>
<td><strong>Epigenetic feedbacks linking DNA-dependent processes:</strong> how cells</td>
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<td>maintain expression homeostasis during DNA replication</td>
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<td>Naama Barkai - Weizmann Institute of Science, Israel</td>
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<td>18:45 – 19:05</td>
<td><strong>Molecular drivers of complex heritability revealed by a natural</strong></td>
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<td>genotype to phenotype map</td>
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<td>Christopher M Jakobson, Stanford University School of Medicine, USA</td>
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<td>19:05 – 19:25</td>
<td><strong>Chemical genomics in genetically diverse strains of Saccharomyces</strong></td>
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<td>cerevisiae</td>
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<td>Bede Busby, EMBL Heidelberg, Germany</td>
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<td>19:25 - 23:00</td>
<td><strong>Dinner and get together</strong></td>
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**Day 2 - Thursday, 18 October 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09:00-09:30</td>
<td><strong>Can microbes help explain the evolution of host cooperation?</strong></td>
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<td>Lilach Hadany - Tel Aviv University, Israel</td>
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<td>09:30-10:00</td>
<td><strong>Yeast as a model to understand how new genes are born</strong></td>
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<td>Anne-Ruxandra Carvunis - University of Pittsburgh, USA</td>
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<td>10:00-10:20</td>
<td><strong>Mapping genetic variation in gene expression by simultaneous</strong></td>
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<td>quantification of mRNA and protein levels in single cells</td>
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<td>Christian Brion, University of Minnesota, USA</td>
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<td>10:20-10:50</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>10:50-11:20</td>
<td><strong>Paralogous interference in cellular networks</strong></td>
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<td>Christian Landry - Université Laval, Canada</td>
</tr>
</tbody>
</table>
Time  Speaker

11:20-11:50  Division of labour: laboratory evolution of a synthetic consortium of *Saccharomyces cerevisiae* strains for second generation bioethanol production
Maarten Verhoeven - DSM, The Netherlands

11:50-12:10  Recombining your way out of trouble: Adaptation to stressful environments through hybridization
Rike Stelkens, Stockholm University, Sweden

12:10-12:30  Dramatic variations in extrachromosomal DNA circle complement are caused by environmentally responsive gene expression
Jonathan Houseley, Babraham Institute, UK

12:30-13:30  Lunch

13:30-14:10  Poster Introduction (odd numbers)

14:10-16:00  Poster Session I (odd numbers)

**Session 3. Experimental Evolution**
**Chair: Jolanda van Leeuwen**

16:00 -16:30  The complex underpinnings of genetic background effects
Ian Ehrenreich - University of Southern California, USA

16:30-17:00  The shape of adaptation and trade-offs
Gavin Sherlock - Stanford University, USA

17:00-17:20  Re-coding the *Saccharomyces cerevisiae* genome through evolution
Ana Rita Guimarães, University of Aveiro, Portugal

17:20-17:50  Coffee Break

17:50-18:20  A renewable barcoding system for high-resolution lineage tracking in laboratory yeast
Michael Desai - Harvard University, USA

18:20-18:50  Systems biology of yeast metabolism
Jens Nielsen - Chalmers University of Technology, Sweden

18:50-19:10  Repurposing the function of a kleisin protein in budding yeast
Yu Ying Phoebe Hsieh, Harvard University, USA

19:20-21:30  Dinner

21:30-24:00  After Dinner Drinks
Day 3 - Friday 19 October 2018

**Time** | **Speaker**
---|---

**Session 4 - Metabolic and Inter-species Networks I**  
Chair: Frank Albert

09:00-09:30 | Nematode pheromone mediated prey sensing is highly polymorphic among the wild isolates of nematode trapping fungi  
Yen-Ping Hsueh - Academia Sinica, Taiwan

09:30-10:00 | Rapid adaptation to the host environment by Cryptococcus neoformans involves genomic changes  
Kirsten Nielsen - University of Minnesota, USA

10:00-10:20 | Comparative pangenome analysis across yeast species reveals a variability shaped by introgression events  
Anne Friedrich, University of Strasbourg / CNRS, France

10:20-10:50 | Coffee break

10:50-11:20 | Talk title to be announced  
Markus Ralser - University of Cambridge, UK

11:20-11:50 | Unravelling inter species metabolite exchange by combining modeling, genetic and metabolomic approaches  
Kiran Patil - EMBL Heidelberg, Germany

11:50-12:10 | Induction of aneuploidy enables yeast to grow without the major membrane lipid phosphatidylcholine  
Xue Bao, Utrecht University, The Netherlands

12:10-12:30 | The landscape of S. paradoxus introgression in S. cerevisiae strains from diverse environments  
Anne Clark, University of Washington, USA

12:30-13:30 | Lunch

13:30-14:10 | Poster Introduction (even numbers)

14:10-16:00 | Poster Session II (even numbers)

Free evening

17:00-18:30 | Optional: Brewery Tour to Brauerei zum Klosterhof (additional costs may apply, limited spaces)

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Day 4 - Saturday 20 October 2018
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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| 09:00-09:30 | **Proteotoxic stress due to loss of interaction partners induces reproductive isolation in yeast hybrids**  
              Jun-Yi Leu - Academia Sinica, Institute of Molecular Biology, Taipei |
| 09:30-10:00 | **Feedbacks on cyclin dependent kinase activity: evolution of safety nets for cell cycle control**  
              Damien Coudreuse - Institute of Genetics & Development of Rennes, France |
| 10:00-10:20 | **Compensated deleterious mutations as drivers of morphological evolution**  
              Balazs Papp, Biological Research Centre of the Hungarian Academy of Sciences, Hungary |
| 10:20-10:50 | **Coffee break**                                                        |
| 10:50-11:20 | **Mechanisms controlling variation in yeast growth**  
              Mark Siegal - New York University, USA |
| 11:20-11:50 | **Genetic assimilation of epigenetic adaptation in experimental yeast populations**  
              Jonas Warringer - University of Gothenburg, Sweden |
| 11:50-12:10 | **Interactions between two transcription factors modulate positive feedback in a eukaryotic bistable system**  
              Naomi Ziv, University of California, San Francisco, USA |
| 12:10-12:30 | **Host virus coevolution in laboratory populations of yeast**  
              Sean Buskirk, Lehigh University, USA |
| 12:30-14:00 | **Lunch**                                                                |
| 14:00-14:30 | **Evolving cross resistance via aneuploidy in Candida albicans**  
              Judith Berman - Tel Aviv University, Israel |
| 14:30-15:00 | **Natural variation in the response to gene over expression in wild Saccharomycyes cerevisiae strains**  
              Audrey Gasch, University of Wisconsin Madison, USA |
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<tr>
<th>Time</th>
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| 15:00-15:20      | Single cell copy number variant detection reveals the dynamics and diversity of adaptation  
                      David Gresham, New York University                                                                                             |
| 15:20-15:50      | **Coffee Break**                                                                                                                     |
| 15:50-16:20      | **Session 7. Metabolic and Inter-species Networks II**  
                      Chair: Hsin Hung Chou TBA                                                                                                           |
|                  | Genetic conflicts and developmental constraints shape centromeric histone function  
                      Harmit Malik - Fred Hutchinson Cancer Research Center, USA                                                                    |
| 16:20-16:50      | Evolution of functional promoters from random sequences  
                      Jeff Gore, Massachusetts Institute of Technology, USA                                                                             |
| 16:50-17:10      | Genetic dissection of an ancient divergence in yeast therмотolerance  
                      Rachel Brem, University of California, Berkeley, USA                                                                               |
| 17:10 – 17:40    | **Coffee Break**                                                                                                                     |
| 17:40-18:10      | **Session 8. Evolution of complex traits II**  
                      Chair: Gianni Liti                                                                                                                |
|                  | Surrogate Genetics: Science at the interface of precision medicine and synthetic biology  
                      Aimee Dudley - Pacific Northwest Research Institute, USA                                                                            |
| 18:10:18:40      | Gain of function mutations in yeast evolved in and out of the lab  
                      Maitreya Dunham - University of Washington, USA                                                                                   |
| 18:40-19:00      | High resolution yeast meiotic recombination landscape and its genomic modulators  
                      Jia Xing Yue, Université Côte d'Azur, CNRS, Inserm, IRCAN, France                                                                        |
| 19:00-20:30      | **Dinner**                                                                                                                           |
| 20:30-24:00      | **Party**                                                                                                                           |