



# Attacking Open Chromatin with ATAC Sequencing

EMBL COURSE

We have moved our website to [embl.org/events](https://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 The content below is no longer being updated.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

Got something to say? Tweet it with [#EMBLATAC](https://twitter.com/EMBLATAC)

### Day 1 - Monday, 26 August 2019

| Time          | Speaker  | Location       |
|---------------|--|----------------|
| 09:45 - 10:45 | <b>Welcome &amp; Introduction</b>  | Flex Lab A + B |
| 10:45 - 11:45 | <b>ATAC-Seq Introduction</b><br>Ulrike Litzenburger - Celgene, USA   | Flex Lab A + B |
| 11:45 - 12:30 | <b>Intro and preparation to practical</b><br>Daria Bunina - EMBL Heidelberg, Germany<br>Ulrike Litzenburger - Celgene, USA | Training Lab B |
| 12:30 - 13:30 | <b>Lunch break</b>   | EMBL Canteen   |
| 13:30 - 17:30 | <b>Experimental Practical (with coffee break)</b>  | Training Lab B |
| 17:30 - 18:30 | <b>Wrap up, recap and tips &amp; tricks</b><br><b>Q&amp;A to part one of the experimental session</b>                      | Flex Lab A + B |

| Time          | Speaker                  | Location           |
|---------------|--------------------------|--------------------|
| 18:30 - 19:30 | <b>Dinner</b>            | EMBL Canteen       |
| 19:30 - 21:30 | <b>Welcome reception</b> | ATC Rooftop Lounge |

## Day 2 - Tuesday, 27 August 2019

| Time          | Speaker   | Location             |
|---------------|---|----------------------|
| 09:45 - 12:30 | <b>Experimental Practical (with coffee break)</b>   | Flex Lab A + B       |
| 12:30 - 13:30 | <b>Lunch break</b>  | EMBL Canteen         |
| 13:30 - 14:30 | <b>Single cells</b><br>Ulrike Litzemberger - Celgene, USA   | Flex Lab A + B       |
| 14:30 - 17:00 | <b>Experimental Practical (with coffee break)</b>   | Training Lab B       |
| 17:00 - 18:30 | <b>Tour of the Genomics Core Facility</b><br>Nayara Azevedo - EMBL Heidelberg, Germany<br>Vladimir Benes - EMBL Heidelberg, Germany | EMBL Core Facilities |
| 18:30 - 19:30 | <b>Poster Presentations</b>   | Flex Lab A + B       |
| 19:30 - 21:30 | <b>Pizza dinner</b>   | ATC Rooftop Lounge   |

## Day 3 - Wednesday, 28 August 2019

| Time          | Speaker  | Location       |
|---------------|--|----------------|
| 09:45 - 10:30 | <b>Single-cell ATAC-seq by combinatorial indexing and its application to developmental genomics</b><br>James Reddington - EMBL Heidelberg, Germany | Flex Lab A + B |
| 10:30 - 11:00 | <b>Enhancer dynamics during mouse segmentation clock cycle</b><br>Emilia Esposito - EMBL Heidelberg, Germany                                       | Flex Lab A + B |
| 11:00 - 11:15 | <b>Coffee break</b>  | Flex Lab A + B |

|               |  |                       |
|---------------|--|-----------------------|
| 11:15 - 12:30 | <b>Overview of computational methods for ATAC-Seq</b><br>Judith Zaugg - EMBL Heidelberg, Germany                                       | Flex Lab A + B        |
| 12:30 - 13:30 | <b>Lunch break</b>   | EMBL Canteen          |
| 13:30 - 14:00 | <b>Lecture</b><br>Daria Bunina - EMBL Heidelberg, Germany  | Flex Lab A + B        |
| 14:00 - 14:30 | <b>Lecture</b><br>Ivan Berest - EMBL Heidelberg, Germany   | Flex Lab A + B        |
| 14:30 - 15:00 | <b>Coffee break</b>  | Flex Lab A + B        |
| 15:00 - 17:00 | <b>Introduction to computational analysis</b><br>Christian Arnold - EMBL Heidelberg, Germany<br>Ivan Berest - EMBL Heidelberg, Germany | Computer Training Lab |
| 17:00 - 18:00 | <b>Start computational analysis over night</b>   | Computer Training Lab |
| 18:00         | <b>Free evening</b>  |                       |

## Day 4 - Thursday, 29 August 2019

| Time          | Speaker   | Location              |
|---------------|---|-----------------------|
| 09:45 - 10:15 | <b>Introduction to Computational Practical</b><br>Christian Arnold - EMBL Heidelberg, Germany<br>Ivan Berest - EMBL Heidelberg, Germany | Computer Training Lab |
| 10:15 - 12:30 | <b>Computational Practical (with coffee break)</b>  | Computer Training Lab |
| 12:30 - 13:30 | <b>Lunch break</b>  | EMBL Canteen          |
| 13:00 - 14:00 | <b>Talk / Q &amp; A computational analysis</b>  | Computer Training Lab |
| 14:00 - 18:15 | <b>Computational Practical (with coffee break)</b>  | Computer Training Lab |
| 19:00         | <b>Barbeque Dinner</b>  | ISG Hotel             |

## Day 5 - Friday, 30 August 2019

| Time | Speaker | Location |
|------|---------|----------|
|------|---------|----------|

|               |   |                          |
|---------------|---|--------------------------|
| 09:45 - 10:30 | <b>Lecture</b><br>Lia Burkhardt - 10x Genomics, The Netherlands | Flex Lab A + B           |
| 10:30 - 12:30 | <b>Computational Practical</b>                                  | Computer Training<br>Lab |
| 12:30 - 13:30 | <b>Lunch break</b>  | EMBL Canteen             |
| 13:30 - 14:30 | <b>Preparation for presentation</b>                             | Computer Training<br>Lab |
| 14:30 - 16:00 | <b>Presentation of results by participants</b>                  | Computer Training<br>Lab |
| 16:00 - 17:00 | <b>Wrap -up and end of the course</b>                           | Computer Training<br>Lab |