

## **BOVREG - ATAC-Seq Workshop**

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### **PROGRAM**

**7-10 November 2022**

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**Monday 7.11. Faculty of Medicine - Conference room - 2 Rue du Dr Marcland**

- 12:00** Lunch buffet
- 13:00** Welcome, and short presentations from onsite attendees – Veronique Blanquet (University of Limoges)
- 13:30** From FAANG to Fork: Application of Highly Annotated Genomes to Improve Farmed Animal Production – Emily Clark (Roslin Institute, University of Edinburgh)
- 14:00** BovReg project overview – Christa Kuehn (FBN, Institute of Genome Biology, Dummerstorf, Germany)
- 14:30** ATACseq: concept and technology – Anne-Sophie Ay-Berthomieu (Active Motif)
- 15:30** Coffee break
- 16:00** ATACseq data analysis /BovReg ATACSeq pipeline – Jose Espinosa-Carrasco (Centre for Genomic Regulation, Barcelona)
- 16:30** Open chromatin landscape in a diverse catalogue of tissues from divergent breeds/crosses for functional annotation: the BovReg application Gabriel Costa (University of Liege, Belgium)
- 17:00** Profiling of open chromatin in developing pig (*Sus scrofa*) muscle to identify regulatory regions - Mazdak Salavati (Roslin Institute, University of Edinburgh)

**Tuesday 8.11. Faculty of Sciences - M Building, RC059 room - 47 Avenue Albert Thomas**

**9:00 - 11:30 ATACseq, Hands-on wet lab, part 1**  
Anne-Sophie Berthomieu (Active Motif), Lionel Forestier (University of Limoges),  
Nathalie Duprat (University of Limoges), Gabriel Costa (University of Liege), Sébastien  
Dupont (University of Liege)

**12:00** Lunch (K Building)

**14:00 ATACseq, Hands-on wet lab, part 2**  
Anne-Sophie Berthomieu (Active Motif), Lionel Forestier (University of Limoges),  
Nathalie Duprat (University of Limoges), Gabriel Costa (University of Liege), Sébastien  
Dupont (University of Liege)

**Wednesday 9.11. Faculty of Sciences - M Building, RC088 room - 47 Avenue Albert Thomas**

**9:00 -10:30 Hands-on bioinformatic analyses, part 1**  
*workflow managers, Nextflow, nf-core community and ATAC-seq data analysis pipeline*  
Jose Espinosa-Carrasco (Centre for Genomic Regulation), Bjorn Langer (Centre for  
Genomic Regulation) Gabriel Costa (University of Liege)

**10:30** Coffee break

**10:45-12:00 Hands-on bioinformatic analyses, part 1**  
Jose Espinosa-Carrasco (Centre for Genomic Regulation), Bjorn Langer (Centre for  
Genomic Regulation) Gabriel Costa (University of Liege)

**12:30** Lunch with round table discussion – Pôle de Lanaud – Boisseuil – Julien Mante

**14:00** Visit of the Limousine breed center – Pôle de Lanaud – Boisseuil – Julien Mante

**16:30** Sequencing run demonstration and/or visit of the technical platform BISCEM,  
Lionel Forestier (University of Limoges)

**Thursday 10.11. Faculty of Sciences - M Building, RC088 room - 47 Avenue Albert Thomas**

**9:00-10:30 Hands-on bioinformatic analyses, part 2**  
Jose Espinosa-Carrasco (Centre for Genomic Regulation), Bjorn Langer (Centre for  
Genomic Regulation) Gabriel Costa (University of Liege)

**10:30** Coffee break

**10:45-12:00 Hands-on bioinformatic analyses, part 2**  
Jose Espinosa-Carrasco (Centre for Genomic Regulation), Bjorn Langer (Centre for  
Genomic Regulation) Gabriel Costa (University of Liege)

**12:30** Lunch box (K Building)