



Medical Genomics: Introductory remarks

International Agency for Research on Cancer Lyon, France

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Genetics section

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International Agency for Research on Cancer

Schedule

Lectures (8hrs)

1. **Genomics** (Matthieu Foll, in French) 4/11/20 2-4pm
2. **Transcriptomics, multi-omics and beyond** (Nicolas Alcalá, in French) 4/11/20 4-6pm
3. **Metabolomics** (Reza Salek, in English) 18/11/20 2-4pm
4. **Epigenomics** (Alexandra Sexton-Oates, in English) 18/11/20 4-6pm

Practicals (8hrs)

1. **Developing and deploying an open-source medical genomic bioinformatic workflow**
(Emilie Mathian, in French) 25/11/20 2-6pm
2. **Multi-omic analysis of cancer data with R** (Lise Mangiante, in French) 2/12/20 2-5:30pm

Projects (8hrs + personal work)

1. **Project choice** 2/12/20 5:30-6pm
2. **Project week 1** 9/12/20 2-6pm
3. **Project week 2** 16/12/20 2-6pm
4. **Project debriefing, presentations, and evaluation** 18/12/20 10am-12pm

Medical Genomics course | *projects*

- 5 subjects, part of actual research topics from the agency
- Ranging from bioinformatics to data analysis
- You will form groups of 4-5 (at the latest on December 2nd)
- **Weekly zoom meeting with supervisor** on Wednesdays (you can ask for help in between within reason)
- **Evaluation through presentation + general evaluation given by supervisor**

Medical Genomics course | *resources*

- **Slack channel:** to communicate information about courses, discuss practicals, discuss with project supervisor
- **Github repository:** https://github.com/IARCBioinfo/medical_genomics_course/wiki for additional resources, lectures, practicals, and project information