

# Medical Genomics: Introductory remarks

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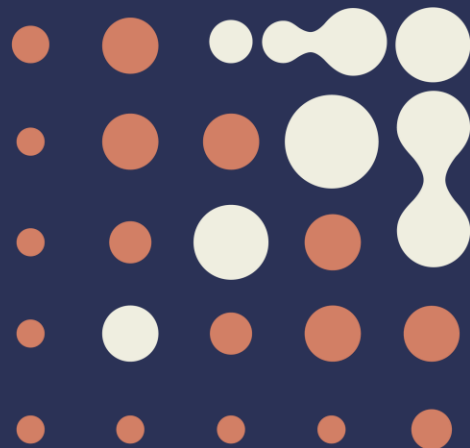
Rare Cancers Genomics Team

November 3rd 2021

International Agency  
for Research on Cancer



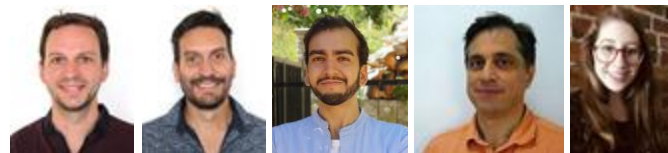
World Health  
Organization



# Schedule

## Lectures (8hrs)

1. **Genomics** (Matthieu Foll) 3/11/21 2-4pm
2. **Transcriptomics, multi-omics and beyond** (Nicolas Alcala) 10/11/21 2-4pm
3. **Metabolomics** (Reza Salek & Adam Amara) 17/11/21 2-4pm
4. **Epigenomics** (Alexandra Sexton-Oates) 24/11/21 2-4pm



## Practicals (8hrs)

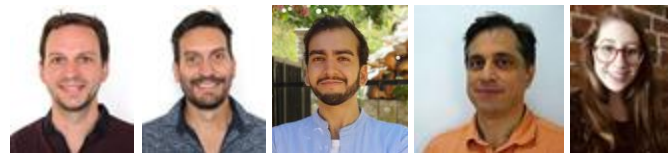
1. **Developing and deploying a medical genomic bioinformatic workflow** (Alex Di Genova & Nicolas Alcala) 3/11/21 4-6pm & 10/11/21 4-6pm
2. **Multi-omic analysis of cancer data with R** (Adam Amara & Nicolas Alcala) 17/11/21 4-6pm & 24/11/21 4-5:30pm

# Schedule

## Projects (8hrs + personal work)

1. **Project choice** 2/12/21 5:30-6pm
2. **Project week 1** 1/12/21 2-6pm
3. **Project week 2** 8/12/21 2-6pm
4. **Project debriefing, presentations, and evaluation** 15/12/21 2-4pm  
at IARC, 150, cours Albert-Thomas (Takamatsu hall)

- 4 subjects, part of actual research topics from the agency
- Ranging from bioinformatics to data analysis
- Groups of 3-5 (at the latest on December 1st)
- **Weekly meeting with supervisor** (can ask questions in between on slack or by email 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](https://github.com/IARCBioinfo/medical_genomics_course/wiki) for additional resources, lectures, practicals, and project information