A progressive series of topics in Cancer Bioinformatics will be covered in this five-day course. Topics will be sequentially introduced such that students can gain mastery of recent advances in molecular therapies in cancer and using the available applications in a step-by-step manner culminating in the application of the publicly available tools and databases to specific Cancer research questions. Morning sessions will consist of lectures by invited speakers that will provide theoretical foundations on the molecular cancer therapies as well as exposure to how publicly available Cancer Bioinformatics tools are applied to specific research projects. Topics will include:

- Scientific computing in the command line for bioinformatics, Metagenomics and genomics
- Tools and approaches for scientific computing in the command line environment
- Introduction to Cancer Bioinformatics resources for research and development
- Securing and accessing Cancer Bioinformatics resources for research
- Machine learning applications in cancer research
- Applications of Cancer Bioinformatics tools in cancer research in Eastern Mediterranean countries
- Working on a high-performance parallel computing environment

**Participants**

- Researchers involved in the field of bioinformatics, metabolomics, transcriptomics
- Students and junior scientists are welcome to attend

**Funding**

- Participants are expected to cover their own travel and living costs
- A limited number of grants covering travel contribution, accommodation and local hospitality for the duration of the course are available to a selected number of nationals of **ICGEB Member States**
- Accommodation will additionally be available from the local organisers and external sponsors for selected students and junior scientists

**Online application deadline**

15 May 2021

[https://www.icgeb.org/activities/meeting-and-courses/](https://www.icgeb.org/activities/meeting-and-courses/)