



ICGEB

International Centre for Genetic
Engineering and Biotechnology

Meetings and Courses 2022



16-19
November

Course "Hands-on course on structural bioinformatics for cancer drug development"

Jeddah, KINGDOM of SAUDI ARABIA



Organiser:

Nabil Miled (Faculty of Science, University of Jeddah, Kingdom of Saudi Arabia)

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<https://www.icgeb.org/bioinformatics-for-cancer-drug-development-course-saudi-arabia-2022/>

Despite tremendous progress of therapies, cancer treatment is still unsatisfactory and deaths rates are inclining. This event will highlight the involvement of critical mutations in protein structural and functional abnormalities leading to cancer disease. Hands-on training will help participants gain knowledge on rational drug design. Topics will include:

- Introduction to cancers and cancer drug targets identification
- Sequence alignment and structure prediction using heuristic Homology Modeling techniques to understand the physical and chemical properties of proteins
- Structural and functional impact of mutations in cancer protein targets, and use of computational predictions
- Rational drug designing approach to understand the interacting residues and the active cleft on the protein and the ligand
- Drug design and Combinatory chemistry and cancer drug development
- Use of Machine Learning and other AI methods in cancer drug development

Participants

- Researchers involved in the field of cancer research
- Post-graduate Students are welcome to attend
- A Poster session will be organized

Funding

- Participants are expected to cover their own travel and living costs
- A limited number of grants, covering accommodation and local hospitality for the duration of the event are available for a selected number of nationals of [ICGEB Member States](#)

Online application <https://isg.icgeb.org/auth/loginn>
Deadline 30 May 2022 - Deadline extended



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