# ICGEB International Centre for Genetic Engineering and Biotechnology

## Meetings and Courses 2022

ICGEB Course

### From omics datasets to biological insight

16 – 18 November 2022 | Cape Town, SOUTH AFRICA

DIPL MICS

*Organiser:*
Stefano Cacciatore (ICGEB Cape Town, South Africa)

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**Web** https://www.icgeb.org/omics-datasets-course-cape-town-2022/

With the advent of modern-day technologies and the increasing of publicly available large-scale biological data, the bottleneck in biological discovery has shifted from the cost of doing experiments to that of analyzing results. The challenge now lies in interpreting them in a biological valuable manner. Topics will include:

- Impact of batch effects on scientific inference
- Unsupervised learning methods to facilitate the identification of patterns representing underlying phenotypes
- Classification and regression methods and their accuracy evaluation using cross-validation approach
- Functional enrichment analysis to extract biological insights from gene expression data
- Deconvolution approaches to retrieve underneath profiles
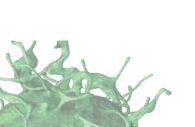
*Participants*

- Researchers involved in the field of omics research
- Poster session will be organized
- Student and junior scientists are welcome to participate
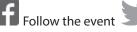- Registration fees will be Euro 100

*Funding*

- Participants are expected to cover their own travel and living costs
- A limited number of grants covering accommodation (twin share) and local hospitality for the duration of the course are available to a selected number of ICGEB Member States

**Online application** https://isg.icgeb.org/auth/login
**Deadline** 18 September 2022

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