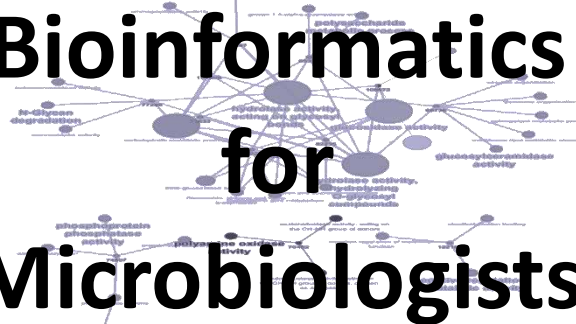


advanced course on

Bioinformatics for Microbiologists



12-16th September

Biology Department and CESAM
University of Aveiro

general information

Dealing with sequence analysis is part of the microbiologist's framework. Research on microbial genomes and proteomes is generating a huge amount of information stored in the databases.

The goal of this advanced course is to **deliver tools for microbial genome and proteome analysis.**

confirmed lecturers

Dora Batista, CIFIC & cE3c, ULisboa

Nuno Rosa, Dep. Ciências Saúde & UCP, Viseu

Pedro Santos, CBMA, UMinho

Raquel Santos, IEETA & IBiMED, UAveiro

Edgar Coelho, IEETA, UAveiro

Rui Vitorino, IBiMED & Fac. Medicina, UPorto

Ana Cristina Esteves, DeBio & CESAM, UAveiro

Ana Sofia Duarte, DeBio & CESAM, UAveiro

Artur Alves, DeBio & CESAM, UAveiro

Cláudia Oliveira, DeBio & CESAM, UAveiro

Isabel Henriques, DeBio & CESAM & IBiMED,
UAveiro

fees

Limited to 20 participants; 10 vacancies are for students enrolled in the doctoral programs of DeBIO-UA (no fee)

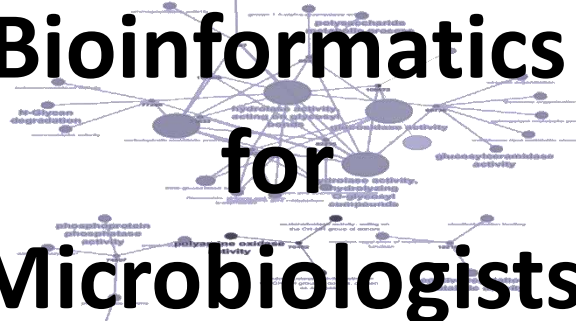
Special fee for other DeBIO-UA students

Other participants: 120 Euros

Early registration, reduced fee (100 Euros) : 31st July

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course organization

Teaching modules will include **theoretical classes**, **hands-on sessions** and **case-studies**:

- Sequence databases knowledge and handling
- Protein function and classification
- Phylogenetic relationships
- Genome sequencing technologies
- Genome sequence assembly and annotation pipelines
- NGS data analysis for metagenomics
- Statistical analysis for genomic datasets (R software)
- Interactomics
- Systems biology
- Proteomics
- Population genomics

target audience

The course is for life sciences and health sciences-oriented scientists, or graduated students, that are familiar with web interfaces. The course is targeted to young researchers, typically engaging their PhD, studying microbial genomes and proteomes.

organizers/ information

Cláudia Sofia Soares de Oliveira
Ana Cristina Esteves (acesteves@ua.pt)

