

Gulbenkian Training Programme in Bioinformatics

ELB19S

Entry Level
Bioinformatics
(second ed. 2019)

July 1st – 5th
2019



Instructors

David P. Judge
Freelancer Independent
Bioinformatics Instructor

. . .

Daniel Sobral
UCIBIO, FCT-NOVA,
Caparica, PT

. . .

Pedro L. Fernandes
Instituto Gulbenkian de
Ciência, Oeiras, PT



Organisers

Pedro L. Fernandes
Instituto Gulbenkian de
Ciência, Oeiras, PT

. . .

Miguel Cardoso
Instituto Gulbenkian de
Ciência, Oeiras, PT

Overview

This is an **entry level** course aimed at those with a reasonable biological background but **no significant experience with bioinformatics**. The course is broadly based around a series of exercises in which a combination of simple analytical tools and reference to publicly available databases is applied to the investigation of a single human gene.

The training manual for the course is comprised of detailed instructions for the tasks undertaken. Included are, questions (with answers) and discussion of and the interpretation of the results achieved.

Participants are asked to imagine an interest in the disease **aniridia**. Course exercises then provide extremely detailed instruction leading participants to discover the gene primarily associated with this disease and all that is interesting about that gene and its protein products.

This course will also provide a soft introduction to **Next Generation Sequencing (NGS) data analysis**. This part of the course aims at providing basic skills that are needed when one needs to process NGS data, such as evaluating data quality, trimming sequences, changing data formats, visualising data, etc. Then, participants will learn how to address a simple transcriptomics problem, stepwise, using open source bioinformatics tools.

<http://gtpb.igc.gulbenkian.pt/bicourses/>



ELB19S Website

BioData.pt 

Co-financiado por:



UNIÃO EUROPEIA
Fundos Europeus Estruturais
e de Investimento

