

Molecular approaches for biodiversity detection

14-15 December 2017

Faculty of Science and Technology

Soil microbiota

Leaf mycoflora

Stream ichthyofauna

Animal diet

ORGANISED BY:

Doctoral Programme in Biodiversity and
Ecosystem Functioning and Management

Intensive workshop (13h)

Thursday 14th 9:00-18:00, Friday 15th 9:00-17:00

CONTENTS

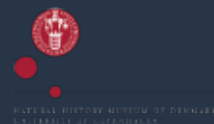
- **Introduction to biodiversity detection in environmental DNA (eDNA)**
- **Methodological approaches and experimental designs**
Field sampling, sample storage, DNA extraction, library build, High Throughput Sequencing and bioinformatic pre-processing
- **DNA metabarcoding**
Primer choice, PCR replicates, sequencing depth, copy number thresholds, OTU clustering
- **Shotgun metagenomics**
Read assembly, gene prediction, functional annotation
- **Taxonomy and function assignment**
Reference databases, mapping and aligning methods
- **Visualisation and statistical analyses**
Result visualisation, diversity quantification and comparison

LECTURERS

Ostaizka Aizpurua

Antton Alberdi

Centre for GeoGenetics
Natural History Museum of Denmark
University of Copenhagen



- Registration open until **November 3rd**
- Students enrolled in the Doctoral Programme in Biodiversity will have priority. Depending on availability, other Doctoral Students might be accepted.

Registration:
goo.gl/xcYqB5

Further information:
inazio.garin@ehu.eus



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MDe

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*Lectures will be in English