



# Molecular approaches, methods and techniques in animal ecology

28.Jul - 30.Jul 2017

Cod. Z16-17

**Mod.:**

Face-to-face

**Edition**

2017

**Activity type**

Workshop

**Date**

28.Jul - 30.Jul 2017

**Location**

Miramar Palace

**Languages**

English

**Academic Validity**

30 hours

**Organising Committee**

**COURSE**  
Molecular approaches, methods and techniques in animal ecology  
Miramar Palace, Donostia  
28-30 July 2017

**INTENSIVE COURSE | 24h**  
Introduction to molecular ecology (experimental design)  
General techniques (library build, sequencing platforms...)  
Whole genome SNP analysis (population genomics)  
DNA metabarcoding (diet analysis)  
Shotgun metagenomics (functional microbiome profiling)  
One-by-one sessions

**TARGET STUDENTS:**  
Undergrads, MSc and PhD students, researchers and lecturers working on animal ecology with basic knowledge on molecular techniques.

Registration open till May 31st or till reaching student limit (40)  
Regular fee: 250€  
EBRS attendees fee: 100€  
Exceptional fee: 200€  
Students without financial support: Free (please, contact the course head)

**TEACHERS**  
Dely Reagor  
University of Southampton  
Arthur Eklund  
University of Copenhagen  
Kristina Sultman  
University of East Anglia  
Aitor Antónabalaga  
University of the Basque Country

Registration and further information:  
[www.ebbs2017.eus/molecularecologycourse](http://www.ebbs2017.eus/molecularecologycourse)





Gipuzkoako Foru Aldundia  
Diputación Foral de Gipuzkoa

## **Description**

Molecular ecology comprises a wide diversity of genetic-based methodological and technical approaches to address ecological and evolutionary questions. This course will focus on general concepts, current techniques and key aspects for the experimental design of molecular studies applied to animal ecology using bats as model species. Particularly, the course will go into detail about population genomics, DNA metabarcoding for diet studies and shotgun metagenomics applied to gut microbiota.

## Directed by



### **Aitor Arrizabalaga**

UPV/EHU University of the Basque Country

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Aitor is a postdoctoral researcher at the University of the Basque Country, UPV/EHU. His research is focused on the foraging ecology of bats using DNA metabarcoding: from individual-level trophic specialization to interspecific trophic interactions and pest control services.



### **Antton Alberdi**

University of Copenhagen

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Antton is a postdoctoral researcher at the Natural History Museum of Denmark, where he researches on bat, cervid and bird gut metagenomes from modern and ancient guano samples using full shotgun techniques.

# Registration fees

<b>REGISTRATION</b>	<b>UNTIL 07-06-2017</b>
Regular Fee	250,00 EUR
EBRS attendee fee	180,00 EUR
Exceptional Fee	200,00 EUR

## **Place**

### **Miramar Palace**

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa