



# 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€  
 EBRIS intensive fee: 180€  
 Exceptional fee\*: 200€  
 \*Students without financial resources  
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 \*Students without financial resources

**TEACHERS**  
 - Oly Reagor  
 University of Southampton  
 - Arthur & Berndt  
 University of Copenhagen  
 - Kristine Salmann  
 University of East Anglia  
 - Alister Armstrong  
 University of the Western Cape

Registration and further information:  
[www.ebrs2017.eus/molecularrecologycourse](http://www.ebrs2017.eus/molecularrecologycourse)

Fundación  
BBVA



## **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

REGISTRATION	UNTIL 07-06-2017
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