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The fifth DNA metabarcoding Spring School at Białowieża

- Events - The fifth DNA metabarcoding Spring School at Białowieża -

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DNA metabarcoding is a rapidly evolving method for assessing biodiversity from environmental DNA. It has a wide range of applications: biodiversity monitoring, animal diet assessment, reconstruction of paleo communities, among others. DNA metabarcoding relies on molecular techniques such as PCR and next generation sequencing, and requires bioinformatics and biostatistics competence to analyze sequencing results. This approach integrates several scientific areas and requires a broad range of skills, in addition to the classical ecological knowledge related to the considered research topic.

The DNA metabarcoding spring school is now in its fifth edition and this year it is co-organized by the metabarcoding.org team and the Mammal Research Institute, Polish Academy of Sciences in Białowieża, Poland.

The DNA metabarcoding spring school will hold from the 1st to 5th of June 2015.

Participants can register for the school (24 places) by sending an email to the following address :

bialowieza2015@metabarcoding.org

The email must contain a brief curriculum vitae and a letter of motivation indicating how your researches are related to DNA metabarcoding and what you are hoping from this school. As part of the course program, each participant is required to give a flash talk (5 minutes) about its research and how it is related to DNA metabarcoding.

Registration deadline is 15 April 2015

Main lecturers

- Marta de Barba (LECA, CNRS, France)
- Aurélie Bonin (LECA, CNRS, France)
- Frédéric Boyer (LECA, CNRS, France)
- Antony Chariton (CSIRO, Australia)
- Eric Coissac (LECA, CNRS, France)
- Håvard Kauserud (University of Oslo, Norway)
- Dorota Porazinska (University of Colorado, USA)
- Pierre Taberlet (LECA, France)
- Douglas Yu (Eastanglia, UK / Kunming Institute of Zoology, China)
- Lucie Zinger (EDB, CNRS, France)

Course Schedule

The school will consist of a series of lectures and practicals introducing different aspects of DNA metabarcoding. Bioinformatics practicals will introduce data analysis from raw sequences to basic ecological conclusions. Molecular ecology practical will present basic technics for DNA extraction in field condition and DNA amplification by PCR.

Provisional planning

The fifth DNA metabarcoding Spring School at BiaBowieża

Time	Monday June 1st	Tuesday June 2nd	Wednesday June 3rd	Thursday June 4th	Friday June 5th
8h00 - 9h00	Welcome lecture presentation of the Mammal Research Institute PAS Rafal Kowalczyk		Environmental monitoring Anthony Chariton	Co-occurrence and Interaction networks Anthony Chariton	
9h00 - 10h00	DNA metabarcoding introduction Pierre Taberlet	Practical Group A : Metabarcdong sampling Group B : Bioinfo 1	Diet analysis Marta de Barba	DNA metabarcoding of nematodes communities Dorota Porazinska	Practical Group A: Bialowieza forest and its ecosystem Group B: Bioinfo 3
10h00 - 10h30	Coffe Break				
10h30 - 11h30	Metabarcode design Eric Coissac	Practical Group A : Metabarcdong sampling Group B : Bioinfo 1	Biodiversity Patterns Lucie Zinger	Lecture 11	Practical Group A: BiaBowieża forest and its ecosystem Group B: Bioinfo 3
11h30 - 12h30	The earth micro biome project Dorota Porazinska	Metabarcoding and Mitogenomics Douglas Yu	Microbiology DNA metabarcoding Håvard Kausrud		
12h30 - 14h00	Lunch				
14h00 - 17h30	24 x 5 min flash presentation	Practical Group A : Bioinfo 1 Group B : Metabarcdong sampling	Practical Group A: DNA extraction / PCR Group B: Bioinfo 2	Practical Group A: Bioinfo 2 Group B: DNA extraction / PCR	Practical Group A: Bioinfo 3 Group B: BiaBowieża forest and its ecosystem

Travel and accomodation

To join BiaBowieża, the easiest way is to reach Warsaw airport. According to the number of participant, we will propose to you the most convenient solution to travel from Warsaw to BiaBowieża the Sunday 31h of March afternoon.

Accommodation will be provided in double bedrooms at the guesthouse located in the park close to the place of the

school. Meals will be served at the same place at the Parkowa restaurant.

Workshop Costs

There are no registration fees for the workshop. Participants will have to pay for their accommodation, meals and travel expenses. The cost for accommodation and meals for 6 days is estimated to 1500 PLN (360Euros).