

Invitation for the course

Introduction to Ecometabolomics for Ecologists

12.08.-16.08.2019

German Centre for integrative Biodiversity Research (iDiv), Leipzig

Who is this course addressed to?

This introductory course is addressed to all PhD students who are interested in performing or already plan to implement metabolomic analysis for their ecological and biodiversity research.

What does the course offer?

The course will provide a basic overview about the application of metabolomics in ecological and biodiversity research. We will explore the tools and approaches that are used to obtain, process and analyze metabolomics data. Furthermore, we will have a critical look at the possibilities and challenges of this method and discuss typical pitfalls and wrong expectations.

Lecture	<ul style="list-style-type: none">• Basic knowledge about mass spectrometry• Applications of metabolomics in ecological and biodiversity research• Tools and approaches to process and analyze metabolomics data
Hands-on	<ul style="list-style-type: none">• Sampling, Sample preparation, Measurement• Metabolomic Data Analysis (XCMS and MetaboAnalyst)
Discussion	<ul style="list-style-type: none">• Critical discussion of metabolomic datasets• Bring your own study!

What will I gain?

After completing the course, you will be able to understand the metabolomics workflow. Furthermore, you'll know what is necessary to **design a good metabolomics experiment** and which bioinformatics software/tool you can use to carry out the basic steps of **data analysis**.

Where will the course take place?

The course will take place in the iDiv Institute for biodiversity research in Leipzig, Germany. For the different parts of the workshop we will be in the seminar rooms of iDiv, the laboratories of the Molecular interaction group and the green house (botany garden).

Where can I apply?

This course is **free of charge**. For Application please contact: Henriette.uth@idiv.de. Please add a short motivation letter, why you want to take part at this course and what you expect to learn. Furthermore we award **2 grants covering traveling and hotel costs**. Don't hesitate to contact Henriette Uthe for further Information as well.

Deadline for application: **01.07.2019**

See you in Leipzig !



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