



**Mend
The
Gap**



Archaeobotany & Integration of Genetics with Archaeobotany Workshops

Organization

The "H2020-TWINN-2015" project entitled The Smart Integration of Genetics with Sciences of the Past in Croatia: Minding and Mending the Gap ("MendTheGap") organises workshops on Archaeobotany & Integration of Genetics with Archaeobotany for students of Biology and Agriculture.

The Workshops will be held at the University of Zagreb, Faculty of Science, Department of Biology on June 12th and 13th 2017.

Aims and Scope

Archaeobotany workshop: The scope of the workshop is to extend the knowledge (given on the first Archaeobotany workshop held last year) about identification of carpological plant remains, with theoretical and practical knowledge about wood (charcoal) anatomy and its microscopic identification. The wood identification is an important part of archaeobotany investigations, because it gives researchers the insight into wood species that were used for production of dwellings, boats, furniture etc. in ancient times. The existence of some wood species on specific archaeological sites can also help researchers to make better conclusions about paleoenvironments and migrations of ancient human populations.

Integration of Genetics with Archaeobotany workshop: The workshop is designed to offer participants a fundamental understanding of the use of genetic tools in biodiversity studies. The course emphasizes a hands-on approach to molecular diversity studies by combining lab exercise with lecture presentation. Lab exercises will cover DNA isolation from fresh, herbarium and archaeological specimens, microsatellite analysis, amplification and sequencing of chloroplast DNA regions, capillary gel electrophoresis and raw data management. The topics of the subsequent lecture dedicated to molecular data analysis and interpretation will be the following: measures of genetic diversity, genetic distance, multivariate statistics and the analysis of population structure.

Participants

The course is open to PhD students of Biology and Agriculture, as well as to Biology students who participated on last year's Archaeobotany workshop and Summer school held in Vela Luka. The maximum number of participants is 10. In case of more than 10 applications, the applicants will be selected on the first arrived/best served criterion. No special knowledge and skills are required, but strong motivation and a specific interest in archaeobotany and genetics.

Participants proficiently following the whole course will be awarded a participation certificate.

Lecturers

Sara Essert

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Zlatko Liber

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Programme

Archaeobotany workshop

Monday, June 12th 2017

9:00 AM - 3:00 PM (with lunch break)

University of Zagreb, Faculty of Science, Department of Biology, Marulićev trg 20/II

Registration and welcome of the participants

A brief introduction to archaeobotany

Basics of structure of wood plants and it's anatomical features

Softwood and hardwood identification

Practical identification of some wood samples

Integration of Genetics with Archaeobotany workshop

Tuesday - June 13th 2017

9:00 AM - 1:00 PM

University of Zagreb, Faculty of Science, Department of Biology, Marulićev trg 9A/II

Molecular diversity analysis - Lab exercise

2:00 PM - 4:00 PM

University of Zagreb, Faculty of Science, Department of Biology, Marulićev trg 20/II

Molecular diversity analysis - Data analysis and interpretation

APPLICATION FORM

Workshop: Archaeobotany & Integration of Genetics with Archaeobotany

Deadline: May 29th 2017

E-mail to: Sara Essert, University of Zagreb, Faculty of Science, Department of Biology
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First name:			
Surname:			
Affiliation:			
Address:			
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Position:			
Notes:			