

Environmental DNA (eDNA) training workshop (virtual)

14.12. - 16.12.2021

Host: University of Duisburg-Essen

Lecturers: Prof. Dr. Florian Leese, Dr. Arne Beermann, Dr. Martina Weiss, Dr. Cristina Hartmann-Fatu, MSc. Robin Schütz, MSc. Till-Hendrik Macher

Access link: https://uni-due.zoom.us/meeting/register/u5Ysce6ppjotE9aWiuonKAojoeos3v2hrBoK

AGENDA

Tuesday 14.12.2021 (Leese, Schütz, all)

10:30 - 12:30

- Welcome note
- From sampling to data (overview)
- Types and definitions of environmental DNA
- Design of eDNA metabarcoding amplicons
- Q&A

13:30 - 17:00

- Detailled lab workflow (extraction to read-to-lead library) including many video examples from lab
- Q&A





Wednesday 15.12.2021 (Leese, Macher, all)

10:30 - 12:30

- Illumina sequencing details; common strategies, problems
- Quality control, structure of header etc.

13:30 - 17:00

- eDNA metabarcoding data analysis using TaxonTableTools (TTT, Macher et al. 2021)
 - o Participants should install the software on Tuesday, information will be provided on Tuesday during the introduction
- Q&A

Thursday 16.12.2021 (Leese, Weiss, Beermann, Macher, Hartmann-Fatu, Schütz)

10:30 - 12:30

- Open Space Workshop
- Discussion of challenges, design of Master Programme

- End of the meeting -







Annex 4. Summary of the Participant Feedback Form for Training (to be filled by host institution)

Part 1: Training Information

Date 14.12. - 16.12. 2021.

Place: On-line training workshop. Host University of Duisburrg-Essen

Lecturer: Prof. Dr. Florian Leese, Dr. Martína Weiss, Dr. Cristina Hartmann-Fatu, MSc. Robin Schütz, MSc. Till-Hendrik Macher

Training objective: The aim of this course is to provide knowledge of general theoretical introduction into DNA extraction, PCR, sequencing and ecological analysis.

Day 1 focussed on types and definitions of environmental DNA, design of eDNA metabarcoding amplicons, extracting eDNA from aquatic ecosystems and detailled lab workflow including many video examples from lab.

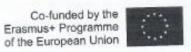
Day 2 focussed on the Illumina sequencing details; common strategies, Quality control and eDNA metabarcoding data analysis using TaxonTableTools.

Day 3 started with Open Space Workshop, discussion of challenges and design of Master Programme.

Evaluator name Adisa Ahmić

Signature Africa (*

Evaluator affiliation Faculty of Natural Science and Mathematics, University of Tuzla





Part 2: Organization and Structure

Organizational feature	3 Strongly Agree	2 Agree	1 Disagree	0 Strongly Disagree
The objectives of the training were clearly defined	3X4			
Information related to each item prepared well in advance of the training	3X4			
The material distributed were helpful and on time	3X4			
The presentations met my expectation	3X4			
Participation and interactions were encouraged by moderator	3X4			
The training objectives were met	3X4			
I will be able to apply the training's content in my future work	3X4			
The training content was challenging enough	3X4			
The timeframe was adequate	3X4			
The facilities were adequate	3X4			
Skill practice sessions were included	3X4			
Suggestion and criticism box (please specify)				
				Total:132

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Annex 10. EVENT REPORT

Title of document	Event report of the Training in Environmental DNA (eDNA)		
Work Package	WP 2 Development		
Last version date	(18/12/2022)		
Status	Draft xFinal		
Document version	v.01		
File name	Event report of the training in Environmental DNA (eDNA)		
Number of pages	5		
Dissemination Level	Internal		

VERSIONING AND CONTRIBUTION HISTORY

Version Date		Revision Description	Partner Responsibile	
v.01	18/12/2022	First draft	P8 University of Tuzla	

LIST OF ABBREVIATIONS

XXXXXXXXX





Purpose, objectives and elements of event

The purpose of this course was general theoretical introduction to DNA extraction, PCR, sequencing and ecological analysis. The basic elements of events were focused on introduction and definition of environmental DNA, design of eDNA metabarcoding amplicons, extracting eDNA from aquatic ecosystems, lab workflow, the Illumina sequencing details, eDNA metabarcoding data analysis using TaxonTableTools and design of Master Programme.

LIST OF PARTICIPANTS

Prof.dr. Edina Hajdarević, University of Tuzla, Faculty of Natural Sciences and Mathematics

Prof.dr Jasmina Kamberović, University of Tuzla, Faculty of Natural Sciences and Mathematics

Prof.dr. Elvira Hadžiahmetović-Jurida, University of Tuzla, Faculty of Natural Sciences and Mathematics

Prof.dr. Adisa Ahmić, University of Tuzla, Faculty of Natural Sciences and Mathematics

Date of the 1stday

14.12.2021.

Date of the 2nd day 15.12.2021.

Date of the 3nd day

15.12.20121.



CONCLUSIONS

The training was successful, extremely helpful and provided a lot of information about modern molecular technology of the Environmental DNA (eDNA). The lecturers were really well prepared.

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