ECOBIAS ERASMUS+ FINAL CONFERENCE

International University of Travnik, Bosnia and Herzegovina 9th – 10th December 2022





Erasmus+ project: Development of master curricula in ecological monitoring and aquatic bioassessment for Western Balkans HEIs/ECOBIAS

Final Dissemination Report University of Tuzla – UNTZ P8 2020-2023

PhD Jasmina Kamberović, WP Leader University of Tuzla

In the preparation of the presentation assisted Edina Hajdarević, PhD









5	DISSEMINATION - WPL UNTZ JASMINA KAMBEROVIĆ	TASK LEADER
5.1.	Preparing project dissemination plan	UNS Dušanka Cvijanović
5.2.	Setting and updating of Project site	UNS, UNI Dušanka Cvijanović
5.3.	Design, printing, recording and publishing promo material	UNS Maja Novković
5.4.	Workshops at Partner Country HEI	IUT Zlatko Mecan
5.5.	Round tables with stakeholders	UDG Sandra Tinaj UBL Svjetlana Lolić
5.6.	Open day at each Partner Country HEI	UDG Marija Vugdelić IUT Selma Otuzbir Mecan
5.7.	Workshop and Summer School in DNA Metabarcoding at University of Tuzla	UNTZ Jasmina Kamberović
5.8.	Final Conference on ECOBIAS	UNTZ Elvira Hadžiahmetović Jurida



Task 5.1 Preparing project dissemination plan

Task Leader Dušanka Cvijanović, UNS

ECOBIAS				

Task	Start	End
5. 1 Preparing project dissemination plan	15.02.2020.	15.05.2020. On time



 Project Dissemination plan prepared on time by Task Leader Dušanka Cvijanović and Task team. The first draft of Dissemination plan was made in May 2020, the second revised version was created in March 2021

Dissemination Plan



Task 5.2 Setting and updating of Project site

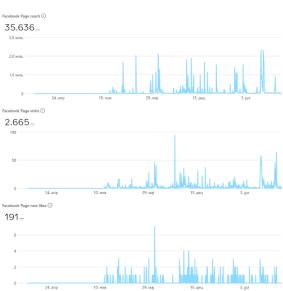
Additionaly Ecobias Erasmus Facebook page

- The project web site was created in February 2020 (https://www.ecobiaserasmus.com/) by P1 UNS.
- Facebook page created on 20. 3. 2020. https://www.facebook.com/EcobiasErasmus
- Average reach per month in the period of 23.3.2020 15.12.2023 = 1 916
- Total reach for the project duration period (15/1/2020- 15/12/2022 = **35 636**

Lokacija	Gradovi Države
Bosna i Hercegovina	552
Njemačka	27
Srbija	22
Hrvatska	13
Crna Gora	12
Austrija	7
Sjedinjene Američke Države	5
Italija	4
Belgija	2
Nizozemska	2

Lokacija	Gradovi	Države
Tuzla, Bosnia and Herzegovina		121
Sarajevo, Bosnia and Herzegovina		82
Banja Luka, Bosnia and Herzegovina		27
Jelah, Bosnia and Herzegovina		26
Lukavac, Bosnia and Herzegovina		23
Mostar, Bosnia and Herzegovina		22
Zivinice, Bosnia and Herzegovina		19
Brcko, Bosnia and Herzegovina		17
Zvornik, Bosnia and Herzegovina		16
Zenica, Bosnia and Herzegovina		12





Task 5.3 Design, printing, recording and publishing promo material

Designing the project logo and visual identity: **Logo created ECOBIAS Word and PPT documents templates and colour palette created on time.**

Number of different kinds of distributed promo materials: /At least four kinds of material per year: leaflets, flyers or notebooks, banners/- **Achieved**

General rules of visibility: **Achieved:** All promo material contains ECOBIAS acronym and logo as well as logo mention: "Co-funded by the Erasmus+ Programme of the European Union"

Media communication and press releases/interviews/articles (A minimum of 60 press releases) – **Achieved 202** press or media releases until 5th of December 2022. The list available on https://docs.google.com/spreadsheets/d/1WCyi0QI8IkScv0TYWtMrAouynq0KlpkGfsLMe080EC8/edit#gid=0

Posts of events on the partner websites /At least two during project duration on each institution websites/ We are still counting......



Task 5.4 Workshops at Partner Country HEI

Task Leader Zlatko Mecan, IUT

- The first workshop "Establishment of regional academic network in EMAB" held on 14th and 15th of December 2020 at IUT. This event has been dedicated to the transfer of knowledge in EMAB, making ECOBIAS Platform plan and networking participants in EMAB.
- In total 49 participants
- Summary grade = 2,87









Task 5.4 Workshops at Partner Country HEI

Task Leader Zlatko Mecan, IUT

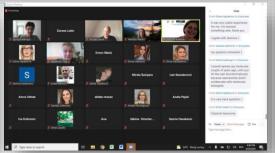
- **The second workshop** "New trends in ecological monitoring and aquatic bioassessment" held at UNTZ on 24th and 25th of June 2021. The aim was transfer of knowledge in EMAB and popularization of new ECOBIAS MSc study programs and LLL courses to students and professionals in EMAB.
- In total 63 participants
- Summary grade = 2,92

















Task 5.4 Workshops at Partner Country HEI

Task Leader Zlatko Mecan, IUT

- The 3rd workshop "Establishment of the regional academic network in EMAB / Freshwater assessment and climate change issue" held on 8th and 9th December 2021 at IUT. The main goal of the workshop is establishment of the regional cooperation between workshop participants and institution involved in the process of monitoring and water management in the Wester Balkans and impact of climate change on inland water ecosystems.
- In total 26 participants
- Summary grade = 3





Task 5.5 Round tables with stakeholders

Task Leaders Sandra Tinaj UDG and Svjetlana Lolić UBL

Svjetlana Lolić will give report on this task







Task Leaders: UDG Marija Vugdelić and IUT Selma Otuzbir Mecan

The first Open days

The mot open days				
Indicators od successful dissemination	Date	Number of participants	Summary results of participants feedback forms	
P5 UDG	4.6.2021	Achieved: YES 32 participants	Achieved: YES Summary grade: extremely helpful - 3 (60%); helpful = 40% -3	
P6 SUM	26.5.2021	Achieved: YES 24 participants	Achieved: YES Summary grade: extremely helpful - 3 (95%); helpful = 5% -3	
P7 IUT	5.12.2020	Achieved: YES 12 participants	Achieved: YES Summary grade: extremely helpful - 3 (100%)	
P8 UNTZ	28.5.2021	Achieved: YES 17 participants	Achieved: YES Summary grade: extremely helpful - 3 (100%)	
P9 UNSA	3.6.2022.	Achieved: YES 12 participants	Achieved: YES Summary grade: extremely helpful -3 (100%)	
P10 UBL	27.5.2021	Achieved: YES 20 participants	Achieved: YES Summary grade: extremely helpful - 3 (80%); helpful - 3 (20%)	
P11 UES	11.6.2021	Achieved: YES 26 participants	Achieved: YES Summary grade: extremely helpful - 3 (100%)	



6.12.2022.

10

Task Leaders: UDG Marija Vugdelić and IUT Selma Otuzbir Mecan

The first Open day



P5 UDG



P7 UIT



P6 SUM



P8 UNTZ

Task Leaders: UDG Marija Vugdelić and IUT Selma Otuzbir Mecan

The first Open day





P9 UNSA

P10 UBL





P11 UES

Task Leaders: UDG Marija Vugdelić and IUT Selma Otuzbir Mecan

The second Open days

Indicators od successful dissemination	Date	Number of participants	Summary results of participants feedback forms
P5 UDG	18.10.2021	Achieved: YES 10 participants	Achieved: YES Summary grade: extremely helpful - 3 (80%); helpful – 3 (20%)
P6 SUM	11.10.2021	Achieved: YES 10 participants	Achieved: YES Summary grade: extremely helpful - 3 (95%); helpful – 3 (5%)
P7 IUT	9.10.2021	Achieved: YES 12 participants	Achieved: YES Summary grade: extremely helpful - 3 (100%)
P8 UNTZ	24.9.2021	Achieved: YES 16 participants	Achieved: YES Summary grade: extremely helpful - 3 (92%)
P9 UNSA	14.6.2022.	Achieved: YES 10 participants	Achieved: YES Summary grade: extremely helpful - 3 (100%)
P10 UBL	14.10.2021.	Achieved: YES 12 participants	Achieved: YES Summary grade: extremely helpful - 3 (100%)
P11 UES	6.10.2021	Achieved: YES 27 participants	Achieved: YES Summary grade: extremely helpful - 3 (85%); helpful - 3 (15%)



Task Leaders: UDG Marija Vugdelić and IUT Selma Otuzbir Mecan

The second Open day



P5 UDG



P7 UIT



P6 SUM



P8 UNTZ

6.12.2022

Task Leaders: UDG Marija Vugdelić and IUT Selma Otuzbir Mecan

The second Open day







P10 UBL



P11 UES



Task Leaders: UDG Marija Vugdelić and IUT Selma Otuzbir Mecan

The third Open days

Indicators od successful dissemination	Date	Number of participants	Summary results of participants feedback forms		
P5 UDG	16.5.2022.	Achieved: YES 26 participants	Achieved: YES Summary grade: extremely helpful – 3 (100%)		
P6 SUM	27.4.2022	Achieved: YES 23 participants	Achieved: YES Summary grade: extremely helpful – 3 (91%); helpful – 3 (9%)		
P7 IUT	17.06.2022.	Achieved: YES 8 participants	Achieved: YES Summary grade: extremely helpful – 3 (100%)		
P8 UNTZ	24.5.2022	Achieved: YES 23 participants	Achieved: YES Summary grade: extremely helpful – 3 (100%)		
P9 UNSA	23.9.2022	Achieved: YES 11 participants	Achieved: YES Summary grade: extremely helpful - 3 (100%)		
P10 UBL	3.6.2022	Achieved: YES 9 participants	Achieved: YES Summary grade: extremely helpful – 3 (100%)		
P11 UES	25.5.2022	Achieved: YES 20 participants	Achieved: YES Summary grade: extremely helpful – 3 (90%); helpful – 3 (10%)		



6.12.2022.

16

Task Leaders: UDG Marija Vugdelić and IUT Selma Otuzbir Mecan

The third Open day



P5 UDG





P6 SUM



P8 UNTZ

Task Leaders: UDG Marija Vugdelić and IUT Selma Otuzbir Mecan

The third Open day





P9 UNSA



P10 UBL



P11 UES

6.12.2022.

18

Task Leader UNTZ Jasmina Kamberović

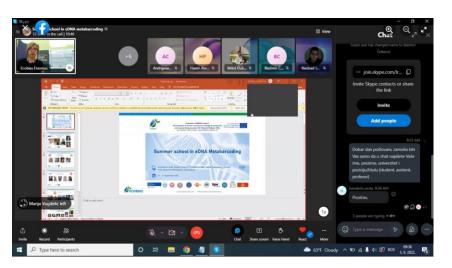
- **Date:** 5th 8th September
- Place: University of Tuzla, Faculty of Natural Sciences and Mathematics, Field Lake Modrac
- Event objective: The summer school in eDNA
 metabarcoding was organized as a four-day program,
 which aims to train participants in the research
 planning of the environmental DNA metabarcoding
 techniques, sampling methodology, environmental
 DNA extraction and amplification, and basic steps in
 sequencing data analysis.
- The Summer School was attended by 56 students and 33 professors/assistant/experts from partner institutions of the Ecobias project.





 The summer school is organized in a hybrid way (live and online via Skype link) with the support of the University of Duisburg Essen







The teachers of the Summer School in DNA Metabarcoding at University of Tuzla





University of Duisburg-Essen

Faculty of Biology
Aquatic Ecosystem Research Group
Leese Lab
http://udue.de/leeselab



Prof.dr. Florian Leese



Msc. Robin Schütz



Msc. Till-Hendrik Macher



Cristina Hartmann-Fatu, PhD



Martina Weiss, PhD





The teachers of the Summer School in DNA Metabarcoding at University of Tuzla



Faculty of Natural Sciences and Mathematics

Department of biology http://bio.pmf.untz.ba/





Prof.dr. Jasmina Kamberović



Prof. Adisa Ahmić



Prof.dr. Edina Hajdarević



Dr.sc. Darja Husejnagić





Monday 5th September 2022 - **first day** of the Summer School

Introduction in eDNA monitoring, Technical preparations for eDNA sampling, DNA extraction and amplification, Field sampling

- Coordinator of the UES, Prof Ljubica Vasiljević addressed the audience in front of the project consortium.
- The lecture on the topic General introduction in eDNA monitoring was given by Jasmina Kamberović (UNTZ) and Adisa Ahmić (UNTZ).
- The lecture Technical preparations for eDNA sampling, DNA extraction and amplification followed and was given by Msc Robin Schütz (UDE).









Monday 5th September 2022 - **first day** of the Summer School

Field sampling













Tuesday 6th September 2022 - **second day** of the Summer School

- Laboratory practice
- DNA extraction from biofilm and syringe filter samples





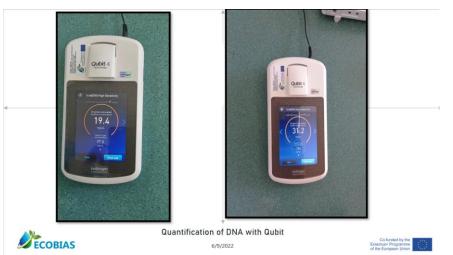




Online participants followed the laboratory work of the first group during the summer school.

Tuesday 6th September 2022 - **second day** of the Summer School

- Laboratory practice
- Qubit quantification of DNA







Tuesday 6th September 2022 - **second day** of Summer School

- Laboratory practice
- PCR amplification using rbcL primer region for diatoms and 12S primer region for fishes.







Wednesday 7th September 2022 - **third day** of the Summer School

- Theory
- The lecture Chances and challenges in eDNA monitoring Importance of the ECOBIAS project was given by Prof. Florian Leese (UDE)





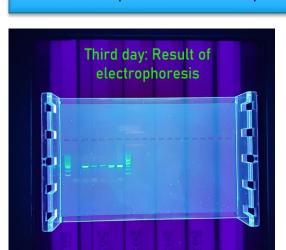






Wednesday 7th September 2022 - **third day** of Summer School

- Laboratory practice
- Electrophoresis of PCR products











Wednesday 7th September 2022 - **third day** of the Summer School

Team work of students to prepare their presentations.







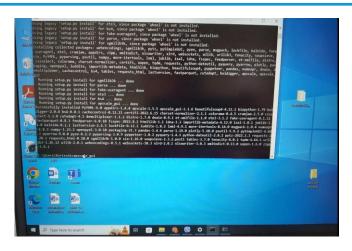


Thursday 8th September 2022 – **fourth day** of the Summer School

 Bioinformatics introduction, Apscale, Taxon Table Tools, reference database, from sequence to taxonomy was given by Till-Hendrik Macher (UDE)









Thursday 8th September 2022 – **fourth day** of Summer School

- Practical bioinformatical students work in the Interba Erasmus laboratory and the computer center of PMF in the exercise titled *From sequence to taxonomy: Bioinformatics, BOLD reference database.*
- Group leaders Jasmina, Adisa, Edina and Darja, with support of Till-Hendrik Macher and Robin Schütz realized this exercise.









Thursday 8th September 2022 – **fourth day** of the Summer School

- Student's presentation
- Sstudent's representatives presented the results of each group's work. All groups have successfully isolated DNA from water targeting a specific group of organisms (diatoms and fish) and all groups obtained bands on gel indicating successful amplification of the targeted gene region.











Thursday 8th September 2022 – **fourth day** of the Summer School

Awarding of certificates











- Many media reported the news about the Summer school in eDNA Metabarcoding, while one part of the educational show on local television (RTVTK - TW show Putokazi) was dedicated to this topic.
- During the summer school, updates were posted on Facebook and Instagram social networks.











Task 5.8 Final Conference on ECOBIAS

Task Leader UNTZ Elvira Hadžiahmetović Jurida

International University of Travnik, IUT

9-10th December 2022

Report follows, activity currently in progress ©





https://www.ecobiaserasmus.com/



https://www.facebook.com/EcobiasErasmus

Thanks to the coordinator, all task leaders, participants and media!



