

AGENDA

ECOBIA training in Phycology

07-09.09.2021 Faculty of Natural Sciences and Mathematics, University of Banja Luka, Bosnia and Herzegovina

Task Leader Zorica Svirčev UNS for P6 SUM and P10 UBL
Jelica Simeunovic P1 UNS for P6 SUM and P10 UBL

Wednesday 08.09.2021.

Session day 1	
9:00-9:45	Phycology Session 1 – General characteristics of cyanobacteria and algae - morphology, nutrition, reproduction, ecology
9:45-10:45	Phycology Session 2 – Systematics of cyanobacteria and algae - overview
10:45-11:00	Coffe break
11:00-12:00	Phycology Session 3 – Culture collection of cyanobacteria and algae
12:00-13:00	Phycology Session 4 – Biochemical properties of algae and biotechnological application of their metabolites
13.00-14.00	Lunch
14.00-15.30	Phycology Discussion

Thursday 09.09.2021.

Session day 2	
9:00-9:45	Phycology Session 5 – Cyanobacterial blooms and cyanotoxins - general
9:45-10:45	Phycology Session 6 – Ways of exposure to cyanobacteria and cyanotoxins with consequences
10:45-11:00	Coffe break

11:00-12:00	Phycology Session 7 – Distribution of cyanobacterial blooms and intoxication in the world and Balkan region
12:00-13:00	Phycology Session 8 – Ecology of terrestrial cyanobacteria - importance and role in semi-arid regions; restoration and biomarkers
13:00-14:00	Lunch
14:00-15:30	Phycology Discussion

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


Part 1: Training Information

Date 07-09.09.2021

Place Faculty of Natural Sciences and Mathematics, University of Banja Luka, Bosnia and Herzegovina

Training objective The course is designed to elucidate the importance of microalgae and cyanobacteria in natural ecosystems, in order to prepare students for solving various problems related to water quality and environmental protection. The emphases are also placed on understanding the importance of algae and cyanobacteria regarding their biochemical, physiological and genetic potentials as well as biotechnological applications.

Evaluator name Maja Manojlovic

Signature  _____

Evaluator affiliation project administrator

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	X			
Information related to each item prepared well in advance of the training	X			
The material distributed were helpful and on time	X			
The presentations met my expectation	X			
Participation and interactions were encouraged by moderator	X			
The training objectives were met	X			
I will be able to apply the training's content in my future work	X			
The training content was challenging enough	X			
The timeframe was adequate	X			
The facilities were adequate	X			
Skill practice sessions were included	X			
Suggestion and criticism box (please specify)				
				Total: 33

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Annex 10. EVENT REPORT

Title of document	ECOBIAS training in Phycology
Work Package	Work Package 2.4 Task Leader University of Novi Sad
Last version date	(29/09/21)
Status	X Draft Final
Document version	v.03
File name	Training event report v.01.doc
Number of pages	3
Dissemination Level	Internal

VERSIONING AND CONTRIBUTION HISTORY

Version	Date	Revision Description	Partner Responsible
v.01	12/01/17	First draft	
v.02	18/01/17	Second draft	
v.03	01/02/17	Third draft	

LIST OF ABBREVIATIONS

P1 University of Novi Sad

P6 University of Mostar

P10 University of Banja Luka

Purpose, objectives and elements of event

Theme-based training of teaching staff for acquiring new EMAB methods and field techniques in Phycology was held online. Two days of lectures were divided in sessions:

Day 1

Session 1 – General characteristics of cyanobacteria and algae - morphology, nutrition, reproduction, ecology

Session 2 – Systematics of cyanobacteria and algae - overview

Session 3 – Culture collection of cyanobacteria and algae

Session 4 – Biochemical properties of algae and biotechnological application of their metabolites

Discussion

Day 2

Session 5 – Cyanobacterial blooms and cyanotoxins - general

Session 6 – Ways of exposure to cyanobacteria and cyanotoxins with consequences

Session 7 – Distribution of cyanobacterial blooms and intoxication in the world and Balkan region

Session 8 – Ecology of terrestrial cyanobacteria - importance and role in semi-arid regions; restoration and biomarkers

Discussion

LIST OF PARTICIPANTS

Task Leader P1, developed for P6 and P10

P1: Zorica Svirčev and Jelica Simeunovic

P6: Anita Dedić

P10: Svjetlana Lolić, Biljana Radusin Sopić, Tanja Maksimović

Date of the 1st day

08/09/2021

Date of the 2nd day

09/09/2021

CONCLUSIONS

Theme-based training of teaching staff for acquiring new EMAB methods and field techniques were very successful. The time frame were well used, textbooks delivered on time and lecturer well prepared.

Filled evaluation forms show that participant were satisfied with training course and achieved goals.

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Google налог x maja manojlovic x Meet - Kurs Freshwat... (без наслова) - x

https://meet.google.com/tfc-uzcq-mpq?pli=1&auth=

Презентујете свима

You are sharing your entire screen. Stop Sharing

Људи

Звук је искључен свима Додај људе Контроле хоста

- Darja Husejnagić
- Renata Besta-Gajevic
- Sabina Dahija
- Snjezana Hodzic

10:57 | Kurs Freshwat...


20°C 10:57 AM 9/7/2021

Meet - Ecobias k PLAYING

https://meet.google.com/jnk-xubs-knr?pli=1&authuser=0

j jelica prezentuje

CIJANOBAKTERIJE I CVETANJE VODE




Prof. Dr. Zorica Svirčev,


07-09.09.2021 Faculty of Natural Sciences and Mathematics, University of Banja Luka, Bosnia and Herzegovina

September 2021

Co-funded by the Erasmus+ Programme of the European Union



Jelica 3

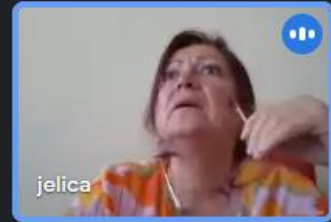
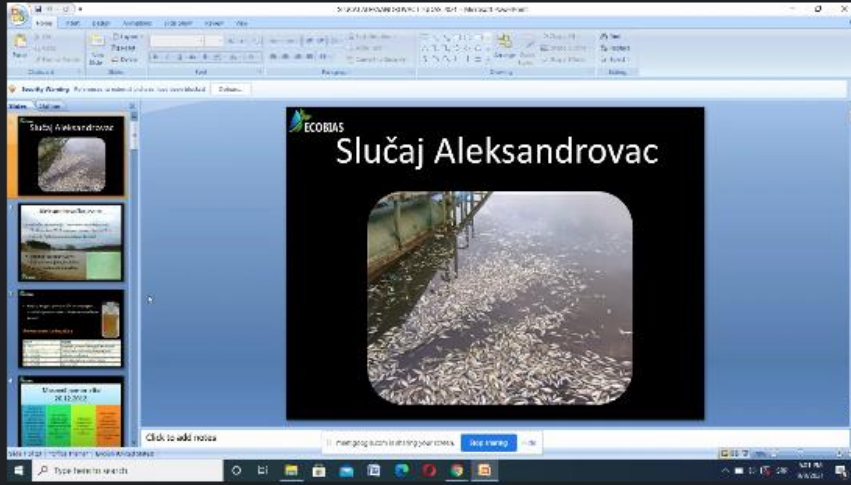


15:13 | Ecobias kurs iz ...

3:13 PM 9/9/2021



jelica prezentuje



Укључи микрофон (ctrl + d)

17:00 | Ecobias kurs iz...



OPŠTE KARAKTERISTIKE
CIJANOBakterija I
ALGI

Jelica Simeunovic
Septembar, 2021.

07.09.09.2021 Faculty of Natural Sciences
and Mathematics, University of Banja
Luka, Bosnia and Herzegovina

ECOBIAS

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jelica is presenting

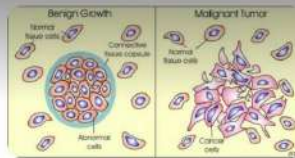


1 other

← Ecobias kurs iz Fikologije ▶

Prema kliničkoj slici tumori se mogu klasifikovati u 3 tipa:

- ✓ benigne
- ✓ maligne
- ✓ Intermedijerne



Maligni tumori se dele na:

- ✓ Karcinome - tumori epitelijalnih ćelija
- ✓ Sarkome - tumori mezenhimalnih tkiva
- ✓ Limfomi - tumori limfnog tkiva
- ✓ Leukemije - tumori hematopoetskog tkiva

Video call window for 'jelica' with a mute icon and a three-dot menu.

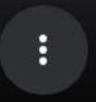
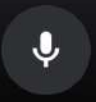
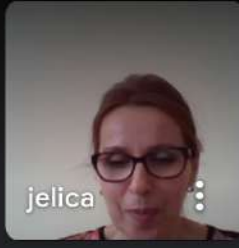
Video call window for 'You' with a camera icon, a speaker icon, and a three-dot menu.

Video call window for 'Samira' with a mute icon and a three-dot menu.

Video call window for 'Biljana 1 o' with a camera icon, a speaker icon, and a three-dot menu.



← Ecobias kurs iz Fikologije ▶



11:47

50

← Ecobias kurs iz Fikologije ▶



jelica is presenting

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Created by the Erasmus Programme of the European Union

Video thumbnail for participant 'jelica' with a mute icon.

Video thumbnail for participant 'You' with camera, microphone, and video off icons.

Profile card for participant 'Tanja' with a mute icon.

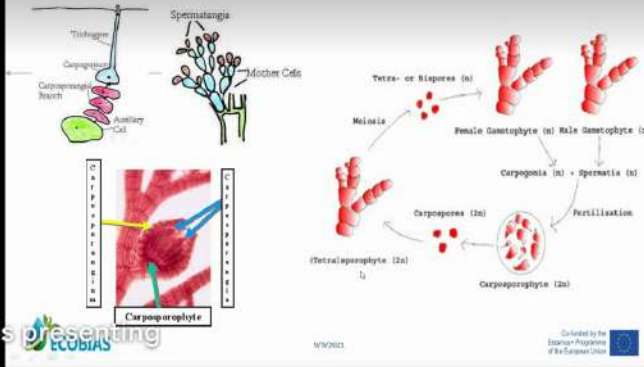
Profile card for participant 'Samira' with a mute icon.



← Ecobias kurs iz Fikologije

Ženski polni organ = **KARPOGON** - jajna ćelija značajno veća od muškog gameta

Muški polni organ = **ANTERIDIJA** – spermacije (nepokretni muški gamet)



jelica is presenting

Video feed of participant 'jelica'.

Participant 'You' with a pink circular icon containing the letter 'S'.

Participant 'Biljana' with a blue circular icon containing the letter 'B'.

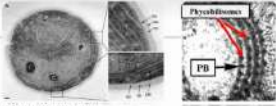
Participant 'Tanja' with a circular profile picture and the text '1 other'.



← Ecobias kurs iz Fikologije ▶

• Prokariotske cijanobakterije u ćelijama ne sadrže hloroplaste-fotosintetski aparat čine pojedinačni tilakoidi koji su smešteni u perifernom delu citoplazme koja se naziva **hromatoplazma**

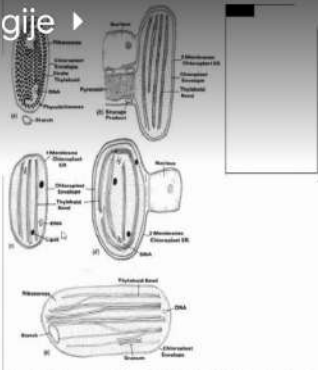
• Na membrani tilakoida smešteni su **fikobilizomi** koji sadrže pigmente iz grupe fikobiliproteina



- Eukariotske alge:
- ✓ hloroplast
 - ✓ hromoplast (hromatofor)
 - ✓ leukoplast

Ometač hloroplasta čine duple membrane (Chlorophyta i Rhodophyta)

Kod ostalih eukariotskih algi ometač hloroplasta je dodatno obavijen sa jednom ili dve membrane **hloroplastnog endoplazmatskog retikuluma** (hloroplastni ER)



Types of chloroplast structure in eukaryotic algae: (a) One thylakoid per band, no chloroplast endoplasmic reticulum (Rhodospirillum). (b) Two thylakoids per band, two membranes of chloroplast E.R. (Eukaryotes). (c) Three thylakoids per band, one membrane of chloroplast E.R. (Eukaryotes). (d) Three thylakoids per band, two membranes of chloroplast E.R. (Phaeocystophyta and Heterokontophyta). (e) Two to six thylakoids per band, no chloroplast E.R. (Chlorophyta).

jelica is presenting

Video feed of participant 'jelica' with mute and volume icons.

Video feed of participant 'You' with mute, volume, and camera icons.

Profile card for 'Anita' with a landscape image and mute icon.

Profile card for 'Biljan' with a blue circle containing 'B' and '2 others', and a mute icon.

Bottom navigation bar with icons for call, video, mute, hand, and more options.