



PROGRAM

11th Student Scientific Conference “Ecology and environment”

50 years Biology Department

April 21, 2023

- 12:00 – 13:00 **Registration**, hall 202
- 13:00 – 13:15 **Opening ceremony**, hall 202
- 13:15 – 13:30 **50 years Biology Department**, prof. dr. Ts. Ignatova-Ivanova, hall 202
- 13:30 – 14:00 **Greetings**, hall 202
- 14:00 – 14:40 **Performance „ Animals - actors“**, assoc. prof. dr. Stoyan Lazarov, hall 202
- 14:40 – 15:30 **Photo exhibition "Nature through the lens of the researcher"**, Maria Kaschieva, Viktor Vasilev, Dimcho Zahariev, Stefan Kazakov, lobby on the second floor
- 14:40 – 15:30 **Welcome Cocktail**, lobby on the second floor

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- 10:00 – 10:20 **Plenary lecture: Is *ex situ* conservation the only solution for saving species whose habitats are being destroyed?** assoc. prof. dr. Marian Tudor, hall 202
- 10:20 – 11:40 **Section “Biodiversity, Ecological microbiology”**, hall 202
- 11:40 – 12:00 **Coffee break**
- 12:00 – 13:20 **Section “Environmental education, Biodiversity, Cell biology, Technology”**, hall 202
- 13:20 – 14:00 **Poster session “Ecology, Agriculture, Medicinal plants”**, lobby on the second floor
- 14:00 – 14:30 **Education Roundtable „Biological blogs and ecological education“**, Moderator prof. dr. Nikolay Natchev, hall 202
- 14:30 – 15:00 **Awarding ceremony and Closing Remarks**, prof. dr. Ts. Ivanova, hall 202



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Section “Biodiversity, Ecological microbiology“

(Oral presentations)

Moderator: prof. dr. Nikolay Natchev

- OP1** Dynamics of microbial communities isolated from *Donax trunculus*, *Chamelea gallina* and *Mya arenaria* from the Bulgarian Black Sea water area // Sevginar Ibryamova, Stephany Toschkova, Darina Bachvarova, Nikolay Natchev, Tsveteslava Ignatova-Ivanova
10:20 – 10:30
- OP2** Microplastic in tissues of *Donax trunculus* // Stephany Toschkova, Darina Bachvarova, Sevginar Ibryamova, Nikolay Natchev, Tsveteslava Ignatova-Ivanova
10:30 – 10:40
- OP3** The Pontic shad - features, migration, economic importance // Nikolay Kolev
10:40 – 10:50
- OP4** Cave and cave-like habitats as the habitat of the representatives of the suborder Serpentes (Tetarapoda, Vertebrata) // Dimitar Puzderkov, Georgy Byanov
10:50 – 11:00
- OP5** Determination of species on the basis of shed skin fragments – does it work for European snakes? // Kiril Valkanov, Angel Dyugmedzhiev, Daniel Yablonski, Alexander Pulev, Nikolay Natchev
11:00 – 11:10
- OP6** Hybridization in Sand vipers (*Vipera ammodytes*) // Marko Ivanov, Kiril Valkanov, Nikolay Natchev
11:10 – 11:20
- OP7** Herpetological spot near the village of Vetrishte, Northeastern Bulgaria // Pavlina Marinova, Teodora Koynova, Nikolay Natchev
11:20 – 11:30
- OP8** Monitoring on the breeding activities of the amphibians inhabiting the Nature Park Shumen Plateau // Georgy Popov, Mariya Kупenova, Fatme Zinel, Nataliya Todorova, Presiyana Petkova, Nikolay Natchev
11:30 – 11:40



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Section “Environmental education, Biodiversity, Cell biology, Technology”

(Oral presentations)

Moderator: assoc. prof. dr. Zheni Dimitrova

OP9 Facilitating student inventiveness and inquiry: a case example from STEM //
12:00 – 12:10 Edwin Y F Ong, Shang Yu Liow, Kenneth Lim

OP10 Projects, discussions and debates in Biology 12th grade // Zerda Isufova
12:10 – 12:20

OP11 Reading and writing in biology and health education in 7th grade as a method for
12:20 – 12:30 developing critical thinking // Asie Güner, Klaida Doichinova

OP12 Preservation of the natural heritage of specially protected territories in the process
12:30 – 12:40 of study by schoolchildren environmental disciplines // Jarulla Dzharaev,
George Nedyurmagomedov

OP13 Fermentation - the Bulgarian patent for longevity // Jake Kadison Lilley-Boag,
12:40 – 12:50 Nazlu Fikretova Djevatova

OP14 Dopamine - universal currency of wellbeing // Stoycho Trifonov, Dimitar Doychev
12:50 – 13:00

OP15 Measurement of background gamma radiation levels in Shumen Plateau, Bulgaria
13:00 – 13:10 - first results // Nikol Kostadinova, Nikoleta Tsvetkova

OP16 Thermodynamic study of aqueous K and Fe(II) selenate system at the temperature
13:10 – 13:20 25°C // Tsvetan Tsenov, Dencho Mihov, Romyana Yankova, Christomir Christov



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Poster section “Ecology, Agriculture, Medicinal plants”

(Poster session)

Moderator: assoc. prof. dr. Darina Bachvarova
lobby on the third floor

- P1** The medicinal plants with conservation status in Nature Park "Shumen Plateau" // Preslava Boyanova, Petya Boycheva, Tsonka Dimitrova
- P2** Characteristics of the nesting bird fauna in the uncultivated areas in the region of village Kardam, southern Dobrudzha // Nina Grigorova, Viktor Vasilev
- P3** Survey on current status of folk medicine in Bulgaria reported by local knowledgeable persons // Asya Dragoeva, Zheni Stoyanova, Vanya Koleva, Martin Marinov, Mehmed Mustafa
- P4** Beautiful and deadly // Bojena Kerina
- P5** Modern aspects of Conservation Agriculture // Katerina Kalcheva, Hyusein Cholakov, Nikolay Dinkov
- P6** Artificial intelligence and drones - ways to use intelligent systems in agriculture // Katerina Kalcheva, Dimitar Zotev, Tanra Kerim
- P7** Homology of the QTLs weight, length and width of chicken eggs from different farms // Mariya Kупenova, Nataliya Todorova, Sevgyuner Raimova, Fatme Zinel, Presiyana Petkova, Vasil Vasilev, Vanya Koleva