

# SEAB2021

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## The 5<sup>th</sup> Symposium on EuroAsian Biodiversity

the 5<sup>th</sup> international  
symposium on  
euroasian  
biodiversity



JULY 1-3  
2021 Almaty  
**KAZAKHSTAN**  
Muğla **TURKEY**

Abstract  
eBook

**Chief Editor**

Prof. Dr. Ramazan MAMMADOV

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## About the Symposium

The 5th Symposium on EuroAsian Biodiversity (SEAB-2021) will be organized by Al-Farabi Kazakh National University, KAZAKHSTAN, and Muğla Sıtkı Koçman University, TURKEY, in collaboration with other universities and institutes from seven different countries, on July 01-03, 2021. SEAB-2021 will be conducted online due to COVID-19 pandemic.

SEAB is one of the largest symposiums that gets together of scientists, conservationists, environmentalists, civil society groups and local communities, a platform to discuss the current status of biodiversity in EuroAsia, an inclusive colloquium to forward strategies and policies to conserve the rich biodiversity heritage of the area.

It is expected that we will have colleagues from related countries for this conference that will represent valuable scientific presentations. During the SEAB-2021, we will have keynote speeches, paper and poster presentations.

SEAB-2021 will provide a scientific platform for conservation leaders, thinkers, and practitioners, scientists, natural resource managers, and environmental consultants to planners, environmental advocates, and corporate and public policy-makers around the EuroAsia to exchange knowledge, discuss issues, share innovations, and network.

## Partners

- Muğla Sıtkı Koçman University, Department of Molecular Biology and Genetics; Department of Biology; Department of Chemistry, Muğla, **Turkey**
- Faculty of Biology and Biotechnology, Al-Farabi Kazakh National University & Institute of Plant Biology and Biotechnology, Science Committee of Ministry of Education and Science, **Republic of Kazakhstan**
- Azerbaijan National Academy of Science, Institute of Dendrology Mardakan, Baku, **Azerbaijan**
- Institute of Cell Biology and Genetic Engineering, NASU, (Kyiv, Ukraine) & Taras Shevchenko National University of Kiev, **Ukraine**
- The Georgian Academy of Agricultural Sciences, Tbilisi, **Georgia**
- Russian State Agrarian University, Faculty Agronomy and Biotechnology, Department of Genetics, Biotechnology, Plant Breeding and Seed, Moscow, **Russia**
- Belarus State University, Faculty of Biology, Minsk, **Belarus**



## Symposium Topics

Animal Biodiversity  
Artificial Intelligence  
Biochemical Diversity of Life  
Biodiversity and Conservation  
Biodiversity and Education  
Biodiversity and Food Security  
Biogeography and Biodiversity  
Bioinvasion and Biodiversity  
Bioremediation  
Biotechnological Application of Biodiversity  
COVID 19  
Ecotourism  
Environmental Toxicology and Biodiversity  
Forest Ecosystem and Biodiversity

Genetically Modified Organisms and Biodiversity  
Genetic Resources and Biodiversity  
Global Health Disease and Biodiversity  
Green Energy Technology and Biodiversity  
Impact of Climate Change and Biodiversity  
Marine & Freshwater Biodiversity  
Microbial Biodiversity  
Plant Biodiversity  
Post Genomic Technologies and Biodiversity  
Renewable and Sustainable Biodiversity  
Soil Biodiversity  
Urban Biodiversity  
Wild Life Biodiversity

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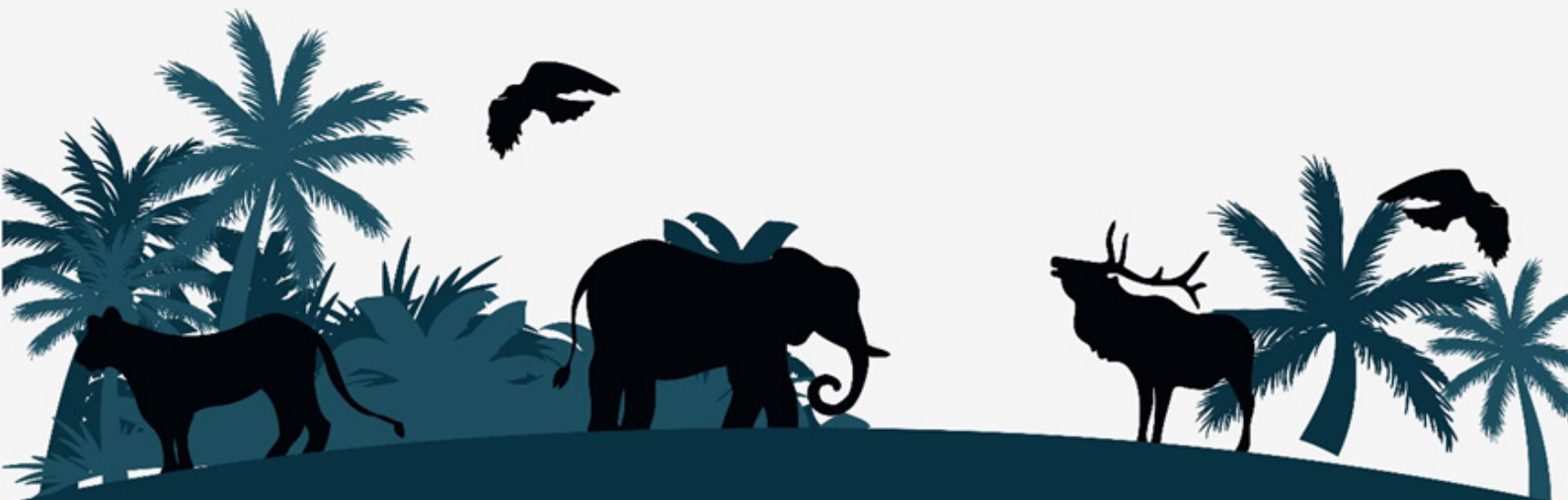
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# PROGRAMME

## of the 5<sup>th</sup> Symposium on EuroAsian Biodiversity

(KAZAKHISTAN TIME)



**DEAR** Colleagues

We invite you to take part in the International scientific and practical conference «**The 5th Symposium on EuroAsian Biodiversity (SEAB-2021)**», which takes place on 1-3 July 2021 at 12 AM (by Almaty time), «Al-Farabi Library» of KazNU, 4<sup>th</sup> floor, No. 3 conference hall and online (Zoom)

**Organizers:**

- Al-Farabi Kazakh National university
- Muğla Sıtkı Koçman University

Opening Remarks, Plenary reports and Hall A. 1-2 July 2021.

<https://us02web.zoom.us/j/88530986101?pwd=YmhzU1J3bGIvMnc0SHkxVXJKUUVMTUT09>

Conference ID: 885 3098 6101

Access code: 206558

*Will be organized by KazNU side.*

Hall B. 1-2 July 2021.

<https://us02web.zoom.us/j/85401178233?pwd=TjVER3JLaWRSMlZoL2JEY3VySTNFUT09>

Conference ID: 854 0117 8233

Access code: 279961

*Will be organized by KazNU side.*

Hall C.

<https://zoom.us/j/8076698176?pwd=MXFhNUdlV2FNeXp6UHE3c1ljeW9EZz09>

Conference ID: 807 669 8176

Access code: SNDAP2

*Will be organized by Mugla Universty side.*

Hall D.

<https://zoom.us/j/2820125369?pwd=cGxxN1J6VVUvelJLSXNBK0Yvc1Jpdz09>

Conference ID: 282 012 5369

Access code: Zg0HcP

*Will be organized by Mugla Universty side*

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**01.07.2021 Al-Farabi Kazakh National University , Almaty (Kazakhstan) – Muğla Sıtkı Koçman University (Turkey). The program was made in Kazakhstan time 12<sup>00</sup>**

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12 <sup>00</sup> -12 <sup>05</sup>	The presenter will say the first word.
12 <sup>05</sup> -12 <sup>20</sup>	The State Anthems of Turkey and Kazakhstan Will Be Voiced
12 <sup>20</sup> -12 <sup>30</sup>	Opening Speech of the Rector of Muğla University – <b>Prof. Dr. Hüseyin Çiçek</b>
12 <sup>30</sup> -12 <sup>40</sup>	Opening Speech of the Host Al-Farabi University Rector - <b>Doctor of Philology, Professor Zhansait Kanseituly TUYMEBAYEV</b>

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**Speeches of the invited speakers (Al-Farabi University)**

**Chairs: Prof., Dr. Bio. Sc. Academician ZAYADAN Bolatkhan, PhD. Doctoral Student KAKIMOVA Ardak**

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12 <sup>40</sup> -13 <sup>10</sup>	1. <b>Prof. Dr. Yusuf BARAN</b> Rector of Izmir Institute of Technology, Turkey <b>Title:</b> "Drug Resistance in Cancer".
13 <sup>10</sup> -13 <sup>40</sup>	2. <b>Prof. Dr. Owen T NEVIN</b> Chief Executive Officer, Western Australian Biodiversity Institute Adjunct Professor of Conservation Biology, CQUniversity Australia <b>Title:</b> "Research Collaborations in the Almaty State Nature Reserve Snow leopards in a changing climate."
13 <sup>40</sup> -14 <sup>10</sup>	3. <b>Prof. Dr. Yerlan TURUSPEKOV</b> Institute of Plant Biology and Biotechnology, Almaty, Kazakhstan <b>Title:</b> "Genetic diversity of wild plants species in Kazakhstan".
14 <sup>10</sup> -14 <sup>40</sup>	4. <b>Prof. Dr. Yakup KASKA</b> Board Chairman of DEKAMER, Department of Biology, Pamukkale University, Turkey. <b>Title:</b> "Sea Turtles and Global Climate Change"
14 <sup>40</sup> -15 <sup>10</sup>	5. <b>Assoc. Prof. Dr. Mikołaj KOKOCIŃSKI</b> Department of Hydrobiology, Faculty of Biology, Adam Mickiewicz University, Poznan, Poland. <b>Title:</b> "The expansion of alien and invasive cyanobacteria and its consequences for the functioning of aquatic ecosystems"

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15<sup>10</sup>-16<sup>00</sup> **Launch. Tea and coffee break**

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## Study of the fungicidal effect of plant extracts

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### Abstract

Since ancient times, the most important properties of plants, the production of industrial, various food, pharmacological and other products from them are studied to this day. In particular, secondary substances of metabolism are widely used in medicine, pharmacology, Veterinary Medicine and other industries, plants that differ in additional important substances are a valuable source of raw materials for many industries.

Recently, there has been an increasing interest in the use of biological preparations derived from medicinal plants, plants that have not yet been studied to control plant pests. After all, such biologics of plant origin are safe.

It is usually a matter of time to take antifungal drugs with an important biologically active additive. The study of the effectiveness of the action of alkaloids, anthraquinones, glycosides, saponins, tannins and polyphenols, which are biologically active compounds of plants that are usually responsible for antimicrobial, general medicinal properties, is a source of obtaining pest control drugs from many agricultural plants.

Therefore, the article studied the fungicidal and growth-stimulating properties of extracts of the aquatic plant *Pistia stratiotes*. Antifungal substances are usually more difficult to detect against some plant pests than diseases caused by bacteria (various fungal diseases).

The cell wall of fungi consists mainly of chitin and other polysaccharides, such as  $\beta$ -glucans, which prevent the action of antibiotics on cells. Therefore, appropriate screening methods for studying the antifungal activity of Natural Resources play an important role in determining fungicides. Biologically active substances obtained from plant extracts are the main source of pharmaceutical products used in folk medicine. Many scientists are interested in studying the Phytochemistry of biologically active substances such as alkaloids, flavanoids, saponins, etc., the nature of which is unknown and are sources of metabolites.

In the future, we plan to study the fungicidal and growth-promoting properties of plant extracts of *Pistia stratiotes* by growing aquatic plants in various nutrient media.

Also, we will devote our research work to determining the fungicidal properties of biologically active substances isolated from extracts of aquatic plants. As a sample, it was planned to determine the antifungal activity of extracts of the aquatic plant *Pistia* by the SEM method.

**Keywords:** drugs, plant, alkaloids, saponins, tannins, fungi, *Pistia stratiotes*.

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