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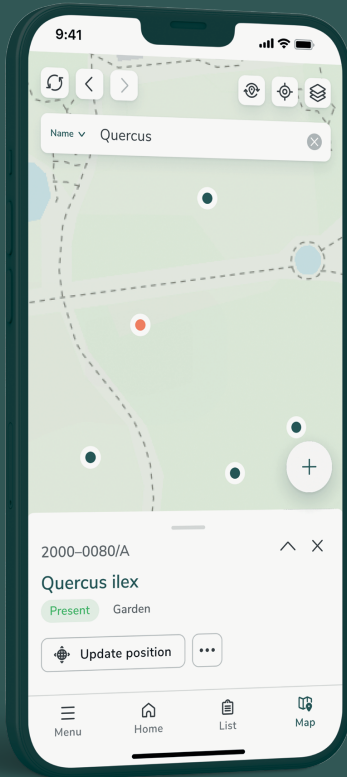
# europaean botanic gardens congress

16–20 May 2022, Budapest

*botanic gardens –  
where people and plants meet*

**PROGRAMME BOOK**

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## ***“Botanic gardens – where people and plants meet”***

Dear Members of the European Botanic Gardens Community,

Dear Colleagues from and around Europe,

on behalf of the Hungarian Association of Arboreta and Botanic Gardens, celebrating the 30<sup>th</sup> anniversary of its foundation, as well as celebrating the 250<sup>th</sup> anniversary of existence of the Botanic Garden of Eötvös Lóránd University, as the first BG in Hungary, I greet you on the website of the IXth European Botanic Garden Congress.

The Organizing Committee and our staff do their best to ensure that from 16<sup>th</sup> to 20<sup>th</sup> of May 2022 we hold a high-quality and successful EuroGard congress in Budapest.

EuroGard congresses have been professional forums for a quarter of a century on classic botanical garden topics such as biodiversity conservation, research, education, maintenance, and more. In addition to these, EuroGard IX intends to address the relationship, joint programs and collaborations of the Botanic Gardens and the various thematic gardens as a priority topic, highlighting the importance of cooperation. Therefore, we are especially looking forward to presentations on this topic from both, the botanic garden sphere and external partners, as well.

Please follow our website and the auction, visit the exhibitions and enjoy the social activities during IX. Eurogard Congress!

We warmly looking forward to welcoming you in Budapest and Hungary!

### **Vince ZSIGMOND**

President

*The Hungarian Association of Arboreta and Botanic Gardens*



## Greetings

Our Fűvészkert is a quarter-millennium years old, this is history itself. During this period it has witnessed and actively participated in the formation and development of the Hungarian botany. Many relocations occurred in its history – unwanted; however these relocations later proved to be advantageous. It witnessed the climax of the Hungarian plant science, facilitating the work of the biggest botanists.

Fűvészkert has a special position in the line of botanical gardens, beginning with its name – understood only by people who speak Hungarian – which can tell a lot. In its early years it committedly served the education of the future medical doctors, which knowledge is deeply rooted. According to the stories ancient wise people looked for and used herbs (in Hungarian: füvek) for medical purposes, so the name Fűvészkert seems absolutely right for a shrine of the science of herbs. Looking back to its history, the 250-year Garden has gone through numerous glorious and hard times as well. These periods interlacing with each other came in cycles.

For those studying its shining history this is a well-known fact, empowering them to bring our Institute to such a long life and to have a bright vision of the future. That future which we aren't allowed to see clearly now, but we do know that those tasks which have been fulfilled by our Garden in this past long period of time, give us hope. Because our future cannot be imagined without our living environment, in studying it and in the conservation work botanical gardens can play a more and more important role.

I hope we can celebrate this special occasion together at the EuroGard IX. conference too.

### **Dr László ORLÓCI**

Director

*Eötvös Loránd University Botanical Garden*

## Dear Colleagues,

it gives me great pleasure to welcome you to the IX<sup>th</sup> European Botanic Garden Congress to be held from the 16-20<sup>th</sup> May 2022 in Budapest.

Eurogard IX is a meeting we are all looking forward to after such a long period of self-isolation. Located in the beautiful city of Budapest, and coinciding with the 30<sup>th</sup> anniversary of the Hungarian Association of Arboreta and Botanic Gardens, and the 250<sup>th</sup> anniversary of Hungary's first botanic garden at Eötvös Loránd University, we have many reasons to celebrate.

Eurogard meetings are an opportunity to share knowledge, learn from each other and – perhaps most importantly of all – make new friends and build new partnerships. The botanic garden community is extraordinarily good at working collaboratively and in partnership, which is essential because there is so much to do! Whether you are interested in the conservation of biodiversity, specialist horticulture, public engagement, research or botanic garden management, there will be plenty to keep you interested and occupied.

BGCI and the European Botanic Gardens Consortium looks forward to supporting our Hungarian hosts in organising this Congress, including encouraging and enabling participation in this highly anticipated meeting. Most of all we look forward to seeing you in Budapest!

### **Dr Paul Smith**

Secretary General

*Botanic Gardens Conservation International*



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## DIAMOND SPONSOR



The Foundation for the Botanical Garden of Eötvös Loránd University („Foundation for Fűvészkert”) was established in the summer of 2005 in order to help the successful and versatile operation of our botanical garden. The aim of the Foundation is to develop and support the wide-ranging educational activities of the botanical garden at all levels, and to preserve the garden as a cultural and natural heritage.

Within the framework of the non-profit activities, the Foundation supports several different tasks:

- Organizing and managing efficient, wide-ranging education and nature conservation work, as well as the development of information systems.
- Expansion and development of the botanical garden and its valuable collections (library, herbarium, seed collection), as a “living museum”.
- Creating financial resources for the preservation of architectural values and for investments aimed at more economical operation in order to protect the botanical garden as a cultural heritage.
- Organizing events to promote the botanical garden.

### **Foundation for Fűvészkert (Fűvészkertért Alapítvány)**

*H-1083 Budapest, Illés str. 25*

Email: [papplaca@gmail.com](mailto:papplaca@gmail.com)

[www.kertalapitvany.hu](http://www.kertalapitvany.hu)

Contact: László PAPP

E-mail: [papplaca@gmail.com](mailto:papplaca@gmail.com)

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For more than a decade, Botanical Software has helped botanic gardens around the world with plant collection management tools. In 2020, we joined Candide Ltd UK, a technology company whose mission perfectly aligns with ours – that is, to help botanical gardens increase their impact and prosperity. In 2021, our team of engineers, botanists and horticulturists launched Hortis, the next generation plant collection platform. The first adopters of Hortis, members of Botanic Gardens Australia and New Zealand (BGANZ), were onboarded soon after and our community is growing every day.

With Hortis, we are Rethinking Plant Records through user-centred design and technology as a means to solving many of the issues gardens are struggling with today. Visit our exhibit to learn more about our vision and how we can help you. At the congress, our CEO, Havard Ostgaard will be joined by our botanical scientist Dr Waheed Arshad and our product designer David Twomey. We look forward to hearing your thoughts and sharing ideas about the future.

### **The Hortis Team at Botanical Software – a Candide company**

*40 Queen Square, Bristol, UK*

Koepoortstraat 40, Doesburg, NL

[www.hortis.com](http://www.hortis.com)

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IrisBG is a complete database and software solution to manage living and preserved botanical collections. We believe that IrisBG should serve as a helpful tool that facilitates everyday work with your collection and it enables easy accessioning with images and mapping, sharing of plant material, tracking the wellbeing of plants and much more.

One of our major success factors is our engaged community who is sharing their experience and guidance to other members, as well as continuously feeding back suggestions for improvement to us. IrisBG has been developed by Compositae AS since 1996 and is in use by more than 200 botanical gardens, arboreta, herbaria and private estates worldwide.

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### **IrisBG Collection Management | Compositae AS**

*Rykkinnveien 73, 1349 Rykkinn, Norway*

Email: [contact@irisbg.com](mailto:contact@irisbg.com)

[www.irisbg.com](http://www.irisbg.com)

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Mari RUSTAN

*Marketing Director & Product Manager*

Email: [mari@irisbg.com](mailto:mari@irisbg.com)

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Greehill reimagines how cities and citizens engage with the urban environment by introducing digital twin technology for urban forest management. Our platform provides intelligent data, tools, and insights about urban trees to make cities greener, smarter, safer, and more resilient.

Each tree in our database includes a centimeter-accurate digital 3D model and high-resolution images to reveal both its structure and surroundings. Tree care specialists can take custom measurements, filter trees by key characteristics, run safety and health checks, and quantify ecological and economic benefits to inform maintenance activities.

Our solutions have been designed to help cities understand what is happening in each street and park in their urban forest, so they can focus their resources on maintaining safe and healthy urban trees and communities.

### **greehill**

*H-1061 Budapest, Andrásystr. 7.*

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Agrolánc Kft. was founded as a joint-venture in 1990 primarily for the distribution of agricultural and civil sector maintenance machinery. Agrolánc is now functioning as a private company with two Hungarian owners: Ágnes Králl, Károly Szemerei.

Since its foundation the company has been the exclusive distributor for **Antonio Carraro** tractors, one of Europe's leading agricultural and civil sector machine manufacturers. The company obtained exclusive rights for distributorship of professional lawn-mowers of **Gianni Ferrari Srl** in 1992; sidewalk sweepers of the Applied Sweepers Ltd (now **Green Machines**), Scotland in 1999, **Club Car** of Ingersoll Rand and for distributorship of professional turf care products of **The Toro Company**.

Besides providing machinery for orchards and vineyards maintenance, Agrolánc Ltd. focus on providing equipment for the civil sector, sport field and golf sectors.

Agrolánc headquarter is located in Fót, with central sales, service-assistance and spare-part supply departments. Nevertheless, we attribute particular importance to extension of our sales network in different parts of Hungary and therefore to render our "philosophy" known in the Hungarian agricultural and civil sector maintenance market. Substance of Agrolánc philosophy is as follows: Selecting and selling of a machine according to determined professional criteria does not terminate at the moment of delivery, right on the contrary, this is the moment when a new relationship begins between User, Agrolánc Kft. and Manufacturer. This relationship is based on a continuous feed-back and its substance consists in punctual and quick supply of spare-parts; precise service-assistance and satisfaction of users' requests with new machines, attachments and technologies.

### **AGROLÁNC Kft.**

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The co-operative is now acknowledged as an outstanding example of well-functioning social enterprise.

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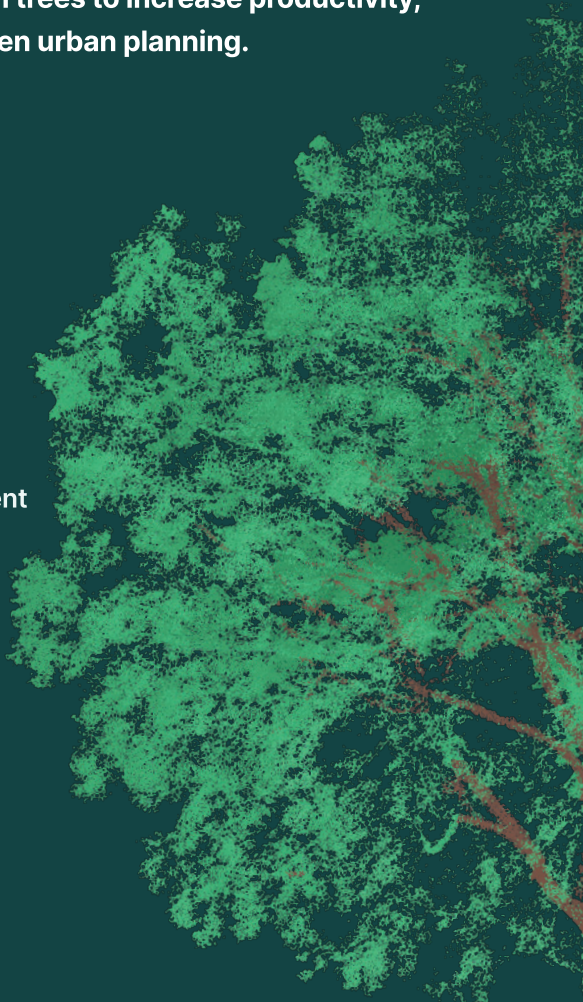


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# GENERAL INFORMATION



## CONGRESS DATE AND LOCATION

**16-20 May, 2022**

**University of Public Service, Educational Building**

H-1091 Budapest, Üllői út 121.

## REGISTRATION AND INFORMATION DESK OPENING HOURS

- 16 May, Monday 08.00-18.00
- 17 May, Tuesday 08.30-18.00
- 19 May, Thursday 07:30-18.00
- 20 May, Friday 07:45-12.00

## ACCESS BY PUBLIC TRANSPORTATION

**The venue, University of Public Service,** can be reached easily by METRO (underground) line M3 (blue colour) from the downtown Deák Ferenc square and from main railway stations (Western- and Eastern (M3-M4) railway stations). **The direct metro station (called Nagyvárud tér)** is very close to the University, 2 minutes walk only. Due to the **renovation of the M3 metro line, replacement buses run** between Lehel tér (downtown area) and Nagyvárud tér stations. The bus stops are located close to the original metro stops, the busses run every 2-4 minutes.

## OFFICIAL CONGRESS LANGUAGE

The official language of the Congress is English.

## INTERNET ACCESS

Free WIFI is available during the congress.

## PROGRAMME CHANGES

Due to unforeseen circumstances/pandemic the organisers cannot assume liability for any changes in the scientific programme. Organisers will do their best to keep EUROGARD2022 participants up to date, possible changes in programme will be immediately communicated.

## CONGRESS BAGS

Please do not put personal belongings (money, ID Cards, mobile phones) in the Congress Bags, since hundreds of similar bags will be around the congress venue, and they could be easily confused.

## BADGES

Identification badges are provided along with other congress materials upon registration. The organisers kindly ask you to wear them all the time during the congress. **Please also note that your congress badge assures your entrance to congress premises and catering.** Persons without badges may be refused. The identification badges are also helpful when contacting the secretariat and other participants.

Registration is required for all congress participants. All prices include 27% VAT.

## FULL PARTICIPANT/BGCI FEES INCLUDE

- Access to all congress sessions
- Congress bag
- Coffee and tea during coffee breaks
- Lunches
- Welcome reception
- ELTE Botanical garden visit and reception
- Congress excursion
- Gala dinner

## STUDENT/DISCOUNTED FEES INCLUDE

- Access to all congress sessions
- Congress bag
- Coffee and tea during coffee breaks
- Lunches

## ACCOMPANYING PERSON FEES INCLUDE

- Congress tour bag
- Welcome reception
- ELTE Botanical garden visit and reception
- Guided sightseeing tour
- Congress excursion
- Gala dinner

## DAILY TICKETS INCLUDE

- Access to all congress sessions
- Daily coffee and tea breaks
- Daily lunch



# EXHIBITION FOR ALL SENSES

## NEVER ALONE – THE SECRETS OF SYMBIOSIS

Invited by the Organizing Committee of EuroGard 9, participants may visit an exhibition for all senses during the Congress at the Congress venue.

This special exhibition was created according to 20-year-long experience of Prague Botanical Garden with the cooperation of the international team of „Botanical Garden: COME IN! VSTUPE! KOM IN! WEJDŹ! GYERE BE!” project funded by the European Union Erasmus+ program.

Its universal design aims to involve wide public, including visitors with special needs. The exhibition is unique because visitors can perceive the exhibits not only by sight, but they can enjoy it using all their senses. Exhibits can be touched, heard, smelt and sometimes even tasted. They are accompanied by labels and descriptions both in latin and Braille. Those who are interested can borrow an eye mask and a special audioguide.

The topic Symbiosis describes various and fascinating relationships between living organisms in nature with an entertaining and interactive approach.

### Authors of the exhibition (2018):

**Eva NOVOZÁMSKÁ**

*Curator of the Prague Botanical Garden*

**Jarmila SKRUŽNÁ**

*Curator of the Prague Botanical Garden*

**Klára LORENCOVÁ**

*Curator of the Prague Botanical Garden*

### Co-authors (2018-19):

*Gothenburg Botanical Garden, Sweden –*

**Helen EKVALL, Eva-Lena LARSSON,**

**Kennert DANIELSSON, Karen OTTO**

*Botanical Garden of the Adam Mickiewicz University in*

*Poznań, Poland –* **Roksana LUBKOWSKA,**

**Joanna MARKIEWICZ, Alicja KOLASIŃSKA**

*Hungarian Association of Arboreta and Botanic Gardens*

**– Anikó BÉLTEKINÉ GÁL, Antal RADVÁNSZKY,**

**Géza KÓSA, Zsuzsa SZENDI, Vince ZSIGMOND**

as COME-IN project partners.

### Hungarian team at EuroGard 9 (2022):

**Zsuzsa SZENDI,** *Curator of the Exhibition (HAABG)*

**Lilla PAMUK,** *Interior Designer (HAABG)*

**Tibor BÁRÁNY & Krisztián HALÁSZ,** *Living plants and assistance (National Botanical Garden Vácraót)*

**László PAPP,** *Living plants and assistance (ELTE Fűvészkert Botanical Garden)*

More about the exhibition and its development - **CLICK HERE!**

<https://garden-comein.com/outputs/io2-exhibition/>



Audio guide  
in english  
language



The exhibition of botanical illustrations as part of EUROGARD IX. European Botanic Gardens Congress in Budapest consists of three parts:

We show the reprints of 26 watercolours by **Vera CSAPODY**, Hungarian botanist and researcher of the Hungarian Natural History Museum. Her oeuvre of invaluable artistic and scientific value contains ca. 11.500 watercolours of both native and introduced plants of Hungary, an immense collection of illustrations that enrich the unique botanical documentation of HNHM. The selection of works for EuroGard concentrates on endemic species, which are involved into ex situ conservation programmes of several Hungarian Botanic Gardens and were painted between 1927-1977.

The 24 special black and white drawings from 1988 to 2018 represent the International Dendrological Foundation (Hungary). The artworks for the Dendrological Atlas project supported by I.D.R.I., Inc. (U.S.) were created by Nóra G. Nagy, Aili Li and Fanni Veronika Vámos based on botanical sketches by Zsolt Debreczy project leader.

The show of sensitively crafted botanical illustrations created by 17 artists of the Vienna School of Botanical Illustration are the youngest artworks of the exhibition. The association founded in 2017 has strong linkages with the Botanical Garden of the University of Vienna. Meanwhile, it has more than 100 members not only from Austria, but also from other European countries like Germany, Ireland or the Netherlands.





OFFICIAL EUROGARD2022 STAMP BY MAGYAR POSTA (Hungarian Post)



The Association of Hungarian Arboreta and Botanic Gardens – on the 30th anniversary of its foundation – is organising the **9<sup>th</sup> European Botanic Gardens Congress (EuroGard IX)** in Budapest between 16 and 20 May 2022, where, in addition to biodiversity conservation, research, education and maintenance, the main theme will be the relationship and collaboration of botanic gardens and thematic gardens.

The stamp marking the Congress features the logo of the event, the work of graphic artist Krisztián GÁL. (official description by Hungarian Post)

## SOCIAL PROGRAMMES

### ELTE Botanical Garden Visits (Füvészkert)

(1083 Budapest, Illés str. 25)

16 May, 17 May, 19 May between 14.00-17:00

Free for all congress participants with valid congress badges. English speaking volunteers welcome the colleagues at the entrance and guide them in the Garden.

### 16 May, Monday

18:30 - **Welcome reception at the Congress Venue** (University of Public Service, Educational Building, 1091 Budapest, Üllői str. 121.)

(included in all FULL registration and accompanying persons' fees) • dresscode: casual

### 17 May, Tuesday

18:30 - **250 years Jubilee Reception in ELTE BOTANICAL GARDEN (Füvészkert)**

(1083 Budapest, Illés str. 25)

(included in all FULL registration and accompanying persons' fees) • dresscode: casual

### 18 May, Wednesday

from 08:00 till 19:20

### Whole day excursion to Natural Sites & National Botanical Garden

(congress excursion is included in all FULL registration and accompanying persons' fees.)

dresscode: tour wear

### 19 May, Thursday

18:15-22.30 departure and **Gala Dinner - Lázár Equestrian Park**

(Domonyvölgy cca 30 km from Budapest, countryside)

(congress gala dinner is included in all FULL registration and accompanying persons' fees.)

• dresscode: casual

## SILENT AUCTION IN SUPPORT OF UKRAINIAN BOTANICAL GARDENS.

The Organisers invite the whole European Botanical Garden Community to take part in a silent auction as donator and/or bidder to help BGs in the difficult situation in Ukraine.

All proceeds from the sales will be donated to Ukrainian Botanic Gardens.

### How to offer items for the silent auction?

(for registered EuroGard participants)

Send us a high resolution picture of the item with the starting price (the lowest price is 10 EUR), a short description and any additional information (if needed) to Tamás Krasznai via e-mail to: [krasznai@congressline.hu](mailto:krasznai@congressline.hu). According to the received information, organisers can upload the offered items to the auction site. Each item delivered personally will be collected at the Congress registration desk on arrival

The Auction closes at 9 pm May 19, 2022.

The highest bid at that moment is the winning bid.

### SILENT AUCTION PLATFORM – [CLICK HERE](#)

<https://eurogard2022.congressline.hu/silentauction/>





## OFFICIAL CONGRESS EXCURSION:

### Different Natural Habitats and the National Botanical Garden Vácrátót

Wednesday, 18 May, 2022 from 08:00 till 19:20

Official congress excursion is included in all FULL registration types and accompanying persons' fees.

Please note that the student, discounted and daily registration fees do not include the tour!

A limited number of additional tickets are available for 75 EUR/person, please sign up the soonest to ensure your booking.

**Please be prepared with comfortable and appropriate footwear and clothing for the all-day hike.**

#### PROGRAM OF THE DAY:

08:00	<i>Departure by bus from the congress venue to the different destinations of the fieldtrip</i>
09:00-09:30	<i>Arrival to the destination, welcome by the host of the nature reserve and natural habitat</i>
09:30-11:30	<i>Guided tour on the trail</i>
11:30-13:00	<i>Bus transfer to Vácrátót National Botanical Garden</i>
13:00-14:00	<i>Greetings by the hosts, refreshments and tasting Hungarian street-food specialities</i>
14:00-16:00	<i>Site visit in the Garden in groups</i>
16:00-16:45	<i>Bus transfer to Nagymaros</i>
17:00-19:20	<i>Danube Bend River cruise, arrival to Budapest Central port (Vigadó), transfer to hotels individually</i>

## Morning Field Trips Destinations – ONSITE SIGNUP

Visiting various types of natural habitats in and around Budapest.

**ONSITE SIGNUPS TO THE DIFFERENT LOCATIONS WILL BE HANDLED ON A FIRST-COME, FIRST-SERVED BASIS AT THE REGISTRATION DESK ON-SITE.**



### 1. SAS-HILL – NATURE PROTECTION AREA – GUIDED TOUR

Living nature museum in the heart of Budapest!

Thanks to its special location, Budapest still harbours islands of natural habitats that host rare and protected plant species. Meanwhile visiting the dolomite screes watching rare species of the

steppe slopes visitors will admire the unforgettable panorama of the bustling metropolis lying at the foothill of Sas-hegy. Just walk and watch!



## 2. NATURAL VEGETATION SPOTS OF THE PANNONIAN FOREST STEPPE PRESERVED IN THE **SOROKSÁR BOTANICAL GARDEN** – GUIDED TOUR

The Pannonian Biogeographic region represents the easternmost edge of the Eurasian forest steppe zone. Rare steppe species, endemics and colourful orchids accompanied by tremendous number of Iris flowers provide an exceptional view when walking along the protected fen meadow, entering the oak groves accompanied by tartar maple or climbing up the inland sandy dune with mass of feather grasses.



## 3. SALINE STEPPES – **FARMOS** – GUIDED TOUR

The saline steppes, meadows and lakes on the Hungarian lowland harbour a special continental steppe flora. Species adapted to high salt content are located in the former low-lying river catchment of the Tisza River. The flora is limited by the harsh habitat conditions, which allow the development of a specific halophytic steppe vegetation.



## National Botanical Garden Vácrátót

The 180-year-old romantic landscape-designed garden, also a national monument and nature conservation area, is the richest scientific plant collection of Hungary. The scenes of this 27 hectare park are engaging in all four seasons. Annual plant exhibitions, intimate trails, rose and geranium collections, and countless tiny wonders of nature await our guests throughout the year.

Read more at National Botanical Garden's website link:  
[botanikuskert.hu](http://botanikuskert.hu)



## Danube Bend cruise

The Danube bend is the richest destination in art and history in Hungary. Cruise along the old royal town, enjoy a superb view of the Danube bend, the ruins of forts and castle.



## Danube Sunset cruise

Finally sunset sightseeing in Budapest from the Danube, at the end exit at Budapest downtown port at Vigadó square.



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# ANTONIO CARRARO

## GARDEN TRACTORS





## 13-15 MAY • 2022

EUROPEAN BOTANIC GARDENS CONSORTIUM MEETING, SZEGED

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### 16 MAY • 2022

9:00 – 9:30 • OPENING CEREMONY

▸ PLENARY ROOM

Moderator: Ferenc HALÁSZ

**Opening speech by the Chair**

**Vince ZSIGMOND**

*President, Hungarian Association of Arboreta and Botanic Gardens,  
Head, CER National Botanic Garden Vácrátót*

**Greeting from the Botanic Gardens Conservation International & from the European Botanic Gardens Consortium**

**Suzanne SHARROCK**

*Director of Global Programmes, BGCI*

**Message from Tim ENTWISLE**

*President, International Association of Botanic Gardens  
Director and Chief Executive, Royal Botanic Gardens Victoria  
Interpreted by Michael Kiehn, Vice-President of IABG, Head of the Core Facility BG Univ. of Vienna*

9:30 – 10:30 • PLENARY SESSION

▸ PLENARY ROOM

Chair: Suzanne SHARROCK

**A quarter-millennium-year history – Eötvös Loránd University Botanic Garden (ELTE Fűvészkert)**

**Dr. László ORLÓCI**

*Director, ELTE Botanic Garden, Hungary*

**Enabling responsible exchange of plant material for conservation and research?**

**Dr. Paul SMITH**

*Secretary General, Botanic Gardens Conservation International, UK*

10:30 – 11:00 • PRESS CONFERENCE

▸ PLENARY ROOM

10:30 – 11:00 • COFFEE BREAK AND PRESS CONFERENCE

11:00 – 13:00 • PLENARY SESSION

▸ PLENARY ROOM

Chair: Suzanne SHARROCK

**Developing and implementing a post-2020 Global Strategy for Plant Conservation**

**Dr. Peter WYSE-JACKSON**

*President, Missouri Botanical Garden, USA  
Co-Chair, Global Partnership for Plant Conservation*



## Darwin revisited – The Coral of Plants

**Prof. Dr. János PODANI**

*Member of the Hungarian Academy of Sciences*

*Institute of Biology, Eötvös Loránd University, Hungary*

## The new Action Plan for European Botanical Gardens – strengthening BGs and their future programs for conservation, research, education and public outreach

**Prof. Dr. Michael KIEHN**

*Head of the Core Facility Botanical Garden, University of Vienna, Austria*

*Vice-President of International Association of Botanic Gardens*

## Paradisum plantavit-Monastery Garden, Garden of Eden

**T. Cirill HORTOBÁGYI OSB**

*Archabbot Pannonhalma, Hungary*

13:00 – 13:10 • GROUP PHOTO

13:10 – 14:00 • LUNCH BREAK

14:00 – 16:00 • BGs AS CUSTODIANS OF BIODIVERSITY I.

► PLENARY ROOM

Chair: Mária HÖHN

## Life Seedforce: a new project focused on plant translocation

**Costantino BONOMI**

## Diversity of primroses in Slovenia

**Jože BAVCON, Branko VREŠ, Blanka RAVNJAK**

## On-the-ground conservation of *Boswellia* species in the Socotra Archipelago (Yemen)

**Petr MADĚRA**

## *Angelica archangelica*, from Viking vegetable to Nordic delicacy - on safeguarding traditional knowledge in botanic gardens

**Anneleen KOOL, Irene TEIXIDOR-TONEU**

## System level thinking to improve the relevance of living collections

**Andrew WYATT**

## Nature conservation in an urban environment

**Bettina HAMEL**

14:00 – 16:00 • BGs AS EXPERIENCE-BASED CLASS-ROOMS I.

► SESSION ROOM

Chair: Michael KIEHN

## Models of Fabaceae-flowers as tools for understanding interactions between form and function

**Daniela HLAVKA, Linda HÄMMERLE, Michael KIEHN, Peter LAMPERT**

## Podcast your garden

**Stina WESTSTRAND, Åsa KRÜGER**

# PROGRAMME

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Designing educational offer for children with children - the case of the new interpretation system at the University of Warsaw Botanic Garden  
Anna ALBIN, Magdalena OPRZADEK

New topics in an old garden - contemporary educational challenges at the University of Warsaw Botanic Garden  
Magdalena OPRZADEK, Anna ALBIN

Science communication in botanic gardens: the European panorama  
Andreia JORGE, António C. GOUVEIA, M. Teresa GIRÃO DA CRUZ, Hannah LITTLE, Emma WEITKAMP

Phenological observations with secondary schools  
David BRÖDERBAUER, Magdalena HAUER, Barbara KNICKMANN, Michael KIEHN

16:00 – 16:30 • COFFEE BREAK

16:30 – 17:30 • BGs AS CUSTODIANS OF BIODIVERSITY II. – CANCELLED SECTION ▶ PLENARY ROOM

16:30 – 17:30 • BGs AS EXPERIENCE-BASED CLASS-ROOMS II. ▶ PLENARY ROOM  
Chair: Koen ES

Virtual versus physical during covid-19 pandemic - reflections from the experience of the botanic garden „D. Brandza” in Bucharest  
Petronela CARMEN-COMANESCU, Maria RAICU, Eugenia NITA, Paulina ANASTASIU

The main dendrological values of the Buda Arboretum, its role in higher education and environmental education  
Péter HONFI, Magdolna SÜTÖRI-DIÓSZEGI, Veronika SZABÓ

Dissemination and awareness-raising in the National Botanic Garden  
Éva SZAKÁCS, Gergely LUNK, Tímea FÖLDI, Erzsébet FRÁTER, Géza KÓSA, Barbara SÓLYOM, Vince ZSIGMOND

17:30 – 18:30 • POSTER SESSION I. & EXHIBITORS/SPONSORS VISIT

18:30 – WELCOME RECEPTION

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## 17 MAY • 2022

9:00 – 10:30 • PLENARY SESSION ▶ PLENARY ROOM  
Chair: Maité DELMAS

The review of European progress towards the GSPC 2011–2020 in a nutshell – Filling the gaps in line with the new vision for the Bern Convention for the period to 2030

Philippe BARDIN

*National Museum of Natural History, Paris, France*

*Chairman of Planta Europa*



A challenge to adapt the missions of the garden to the diversity of the missions that the community must carry out for the population. What are the priorities? What is the best strategy for the botanical garden? Which alliances?

**Daniel BOULENS**

*Environment Expert, Former Head Gardener of Lyon, France*

**Smithsonian Gardens an Urban Oasis in Washington, DC, USA**

**James GAGLIARDI**

*Supervisory Horticulturist*

*Freer/Castle/Haupt/Rose/Ripley Garden, Smithsonian Gardens, Washington DC, USA*

10:30 – 11:00 • COFFEE BREAK

11:00 – 12:00 • PLANTA EUROPA

► PLENARY ROOM

Chair: Maïté DELMAS

**Botanic gardens as places to support ESPC targets and green institutions**

**Erika KÓNYA-PÉNZESNÉ**

**From the wild, to the Balkan Botanic Garden of Kroussia and then in public: creating an awareness-raising urban public park in Northern Greece with conservation priority plants**

**Eleni MALOUPA**

**Environment, sustainability and biodiversity in a changing world**

**Martin HAIGH, Erika KÓNYA-PÉNZESNÉ, Josef KRECEK**

11:00 – 11:40 •

**BGs PUBLIC PARKS AND URBAN GREEN INFRASTRUCTURE - SECTION CANCELLED**

► SESSION ROOM

12:00 – 13:00 • LUNCH BREAK

13:00 – 14:20 • BGS AND GLOBAL CHANGE

► PLENARY ROOM

Chair: Constantino BONOMI

**Humans - invasive or keystone species? implications of spatial and historical disparities for plant conservation**

**Mats HAVSTRÖM**

**Phenological assessment of woody plants in the Buda Arboretum for urban afforestation**

**Barnabás TÓTH, Krisztina SZABÓ**

**Preparedness in times of rapid change and extreme events – Botanic gardens and disaster management planning**

**Joachim GRATZFELD, Noelia ALVAREZ DE ROMÁN**

**Meise Botanic Garden 2.0 is ready for the future**

**Koen ES**

# PROGRAMME

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14:20 – 15:00 • **BGs FOR FOOD SECURITY AND PLANT RESOURCES**

► PLENARY ROOM

Chair: Constantino BONOMI

Environment friendly plants use in sensitive agroecosystems

Asta KLIMIENE, Laura NORMANTE

Enabling responsible exchange of plant material for conservation and research

Paul SMITH

13:00 – 14:00 • **BGs AND THE POLICY ENVIRONMENT**

► SESSION ROOM

Chair: Antal RADVÁNSZKY

Non-commercial use of plant genetic resources and the Nagoya Protocol of the Convention on Biological Diversity: assessment of experiences and implications in German speaking countries

Fabian ALEXANDER FISCHER, Michael KIEHN

Implementing the Global Strategy for Plant Conservation: achievements to date and ideas for the future

Suzanne SHARROCK, Maité DELMAS, Peter WYSE-JACKSON

The use of IPEN-numbers in seed catalogues of botanical gardens

Iris OTTERSPEER, Michael KIEHN

14:20 – 15:00 • **BGs IN THEIR SOCIAL CONTEXT**

► SESSION ROOM

Chair: Antal RADVÁNSZKY

Barriers in Gardens – not only steps and steep slopes

Klára LORENCOVÁ, Jarmila SKRUŽNÁ, Eva NOVOZÁMSKÁ

Designing the therapeutic garden

Blanka RAVNJAK, Lea ŠUC, Lea GABROVŠEK, Jože BAVCON

15:00 – 15:30 • **COFFEE BREAK**

15:30 – 17:30 • **WORKSHOP**

► PLENARY ROOM

Sentinel plant research in Europe

Lara SALIDO

15:30 – 17:00 • **WORKSHOP**

► SESSION ROOM

Networking for Plant conservation and habitat restoration

Costantino BONOMI, Erika KÓNYA-PÉNZESNÉ, Philippe BARDIN, Jana TABORSKÁ

18:30 – 21:00 • **250 YEARS JUBILEE RECEPTION IN ELTE BOTANICAL GARDEN**

► FÜVÉSZKERT





## 18 MAY • 2022

8:00 – 19:20 • CONGRESS EXCURSION

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## 19 MAY • 2022

8:30 – 10:00 • WORKSHOP

► PLENARY ROOM

Botanic garden visitors do not waste food!  
Dominic GRANTLEY-SMITH

8:00 – 10:00 • SATELLITE MEETINGS

► SESSION ROOM

Nordic Network  
ENSCONET

10:00 – 10:30 • COFFEE BREAK

10:30 – 12:10 • BGs AS CUSTODIANS OF BIODIVERSITY III.

► PLENARY ROOM

Chair: Peter WYSE-JACKSON

Where is Europe standing concerning the GSCP Target 8? A study on wild species seed bank collections in the framework of the COST Action CA18201 "Conserve Plants  
Andreas ENSSLIN

In situ and ex situ conservation of the endangered plant *Artemisia laciniata*  
Andrea KODYM, Frank SCHUMACHER, Thomas PIRKER, Michael KIEHN

In vitro culture as a method of ex situ conservation of valuable plant species of the Romanian flora a case study at AI. Borza botanic garden  
Liliana JARDA, Valentin ADRIAN KISS, Irina HOLOBIUC, Victoria CRISTEA

Ex situ conservation in National Botanic Garden, Vácrtót  
Krisztián HALÁSZ, Gergely LUNK, Erzsébet FRÁTER, Tibor BÁRÁNY, Géza KÓSA, Vince ZSIGMOND

The AMUNATCOLL IT system – virtual collections, field application and spatial data analyses for all  
Justyna WILAND-SZYMAŃSKA, Jerzy BŁOSZYK, Marcin LAWENDA, Maciej NOWAK, Piotr SZKUDLARZ,  
Bogdan JACKOWIAK

10:30 – 12:10 •

BGs AS ECO-ATTRACTIONS / BGS AS FIELD FOR ART AND CULTURE ACTIVITIES

► SESSION ROOM

Chair: Eleni MALOUPA

Documenting, sharing, and disseminating plant collections: the experience of the Pisa Botanic Garden  
Marco D'ANTRACCOLI, Leonardo COCCHI, Pietro PICCONI, Dario BESSEGHINI, Lorenzo PERUZZI

A coastal redwood grove in the Balaton region: creating a successful phytocoenosis in unfavourable conditions  
Zsuzsanna RÓNAY, Réka FOLLY



The wise trees project - support of historic and/or botanic gardens in management and familiarization of ancient trees

Zsuzsa SZENDI, Vince ZSIGMOND

Biodiversity and Art: incorporation of nature and art projects in Vilnius University Botanical Garden activities  
Aida Vida DOBKVICIUTE, Audrius SKRIDAILA

Tallinn Botanic Garden – Embassy of the Plant Kingdom  
Jaan METTIK, Urve SINIJÄRV

12:10 – 13:00 • LUNCH BREAK

13:00 – 14:30 • BGs AS CUSTODIANS OF BIODIVERSITY IV.

► PLENARY ROOM

Chair: Urve SHINIÄRV

Ex situ conservation in the Botanical Garden of Eötvös University  
László PAPP, László ORLÓCI

GlobalTree Portal: the first conservation database for trees  
Emily BEECH, Malin RIVERS, Ryan HILLS, Stefan JÄNICKE

Plant knowledge and plant application in the Budapest Zoo and Botanical Garden  
Krisztina SZABÓ

The role of the Botanic Gardens in the restoration of declined Mediterranean forest ecosystems  
Dario LA MONTAGNA, Vito Emanuele CAMBRIA, Emile AMMANN, Virginia Chiara CUCCARO, Vikram IOZZO, Giuseppe FABRINI, Fabio ATTORRE

13:00 – 14:30 • BGs AS LIVING TREASURIES

► SESSION ROOM

Chair: Anne-Cathrine SCHEEN

Not just a building – new greenhouses in the Gothenburg Botanical Garden  
Åsa KRÜGER, Stina WESTSTRAND

Re-organization finalised: the new Systematic Division at the BG of the University of Vienna  
Barbara KNICKMANN, Michael KIEHN, Michael MÜNCH

The phylogenetic plant system garden in National Botanic Garden, Vácrátót  
Erzsébet FRÁTER, Tibor BÁRÁNY

Conserving natural forest steppe within the territory of the Soroksár Botanical Garden  
Maria HÖHN

14:30 – 15:00 • COFFEE BREAK



15:00 – 16:20 • BGs AS PERPETUATORS OF CULTURAL HERITAGE

► PLENARY ROOM

Chair: Paulina ANASTASIU

Flore de Gand - herbaria at the crossroads of horticulture and biodiversity

Chantal DUGARDIN, Steven VERSTOCKT, Isabel ROTTHIER

Complex cultural heritage of Alexandru Borza Botanic Garden in Cluj-Napoca (Romania): from plant collections to historical artefacts

Liliana JARDA, Alexandra ŞUTEU, Oana GAVRILAŞ, Pavel Dan TURTUREANU, Mihai PUŞCAS

Botanical Gardens as a Part of European Cultural Heritage

Marketa MACHACKOVA, Gitana STUKENIENE

Collections of ornamental plants as cultural heritage

Alexandra BAUMEYER

15:00 – 16:40 • WORKSHOP - BGs AND THE POLICY ENVIRONMENT

► SESSION ROOM

Developing a digital platform for responsible exchange of plant material and data

Paul SMITH, Michael KIEHN, Anneleen KOOL, Reinout HAVINGA

18:15 – 21:00 • Buses depart to the venue of GALA DINNER ► LÁZÁR EQUESTRIAN PARK (Domonyvölgy)

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## 20 MAY • 2022

8:00 – 9:00 • POSTER SESSION II. & EXHIBITORS/SPONSORS VISIT

9:00 – 11:00 • BGs AS GREEN LABORATORIES

► PLENARY ROOM

Chair: Erika KÓNYA-PÉNZESNÉ

Effective plant conservation: why botanists should study zoology?

Marcin ZYCH

Creating and using “Quality × Quantity” model to calculate aesthetic value of hip producing outdoor rose cultivars

Gábor BORONKAY, Dóra FARKAS, Szilvia KISVARGA, András B. NEMÉNYI, László ORLÓCI

The role of MATE Gödöllő Botanical Garden`s Temperate Bamboo Collection in education and research  
András NEMÉNYI, Ildikó PÁNDI, Károly PENKSZA, Szilvia KISVARGA, Dóra FARKAS, Gábor BORONKAY, László ORLÓCI

How botanic gardens and seed banks can contribute to experimental research on plant adaptation to climate change

Marko-Tapio HYVÄRINEN, Anniina MATTILA, Maria HÄLLFORS, Laura PIETIKÄINEN, Annisa SATYANTI, Øystein OPEDAL, Marita TIIRI, Mari MIRANTO



Diversifying science in botanical gardens, examples from Hortus Botanicus Leiden  
Roderick BOUMAN

Breeding and application of Hungarian and native ornamental plants in modern green space management  
Szilvia KISVARGA, Dóra FARKAS, Gábor BORONKAY, András NEMÉNYI, László ORLÓCI

9:00 – 10:20 • BGs AS/AND HISTORIC GARDENS  
Chair: TBA

► SESSION ROOM

Botanic garden “D. Brandza” – over 160 years devoted to education, research and plants conservation  
Paulina ANASTASIU

The place and role of arboreta and botanical gardens in the Hungarian garden heritage  
Agnes HERCZEG, Albert FEKETE

The Botanical Garden of Budapest  
Eva SZIKRA

Heritage conservation aspects regarding botanic gardens and arboretums in Hungary  
Katalin TAKÁCS, Imola GECSÉNYÉ TAR, Anna EPLÉNYI, Máté SÁROSPATAKI

11:00 – 11:30 • COFFEE BREAK

11:30 – 12:30 • WORKSHOP

► PLENARY ROOM

Peer-to-peer learning: citizen science and community engagement at botanical gardens  
Baiba PRUSE, Suzanne SHARROCK, Justyna WILAND-SZYMANSKA, Monika SUSKEVICS, Tsipe AAVIK

11:30 – 12:30 • WORKSHOP

► SESSION ROOM

The Future of Living Collection Management: Understanding the Impact of Your Collection Through Value Scoring  
Havard OSTGAARD, Samuel BROCKINGTON, Waheed ARSHAD, Martin SMITH

12:30 – 13:00 • CLOSING PLENARY AND CEREMONY

► PLENARY ROOM

13:00 – LUNCH

## BGs AS CUSTODIANS OF BIODIVERSITY

- 1. Activities on ex situ conservation of forest genetic resources in the Botanical Garden of the University of Banja Luka**  
Sunčica BODRUŽIĆ, Nikola TRAVAR, Marina ANTIĆ, Jelena DAVIDOVIĆ GIDAS
- 2. Promising varieties of ornamental apple trees**  
Irina BONDORINA
- 3. Species-specific temporal dynamic of orchid populations in the Molinia meadow of Soroksár Botanical Garden (Budapest)**  
Nour Zayani ELHOUDA, Szabina MIKLÓSI, Anna Mária CSERGŐ
- 4. Importance of genus fund plant collections of botanical gardens for regeneration of swamps ecosystems**  
Remigijus DAUBARAS, Laima ČESONIENĖ
- 5. The HBLFA for Horticulture and Austrian Federal Gardens as a synergy of living treasures, education and research infrastructure**  
Andreas FELLNER
- 6. Vertebrate fauna of the National Botanic Garden**  
Tímea FÖLDI, Éva SZAKÁCS, Gergely LUNK, Krisztián HALÁSZ, Géza KÓSA
- 7. Phenological investigation of the Festuca taxa in the sandy areas along the Danube**  
Attila FÜRÉSZ, Gergely PÁPAY, Ildikó TURCSÁNYI-JÁRDI, Eszter S.-FALUSI, Károly PENKSZA
- 8. Conservation of protected plants of native flora in the M. M. Gryshko National Botanical Garden of NAS of Ukraine**  
Mykola GAPONENKO, Alla GNATIUK
- 9. Macrofungi of National Botanic Garden Vácrtót**  
Krisztián HALÁSZ
- 10. Collection of Woody Plants of the O.V. Fomin Botanical Garden**  
Vitalii KOLOMIICHUK, Roman PALAGECHA
- 11. Experiences in the ex situ conservation of the giant plantain (*Plantago maxima* Juss. ex Jacq.) in Soroksár Botanical Garden**  
Zsófia KOVÁCS, Mária HÖHN
- 12. Native woody plant collection in the Botanical Garden of the University of Latvia**  
Madara LAZDANE, Signe TOMSONE, Inga APINE, Inese NABURGA, Uldis KONDRATOVICS
- 13. Population size and density patterns of *Ophioglossum vulgatum* L. in the Molinia meadow of Soroksár Botanical Garden (Budapest)**  
Szabina MIKLÓSI, Márta LADÁNYI, Anna Mária CSERGŐ
- 14. Habitat restoration of old-fields in Körös-Maros National Park (Hungary) with in situ seed sowing and ex situ propagation and planting of loess grassland species**  
Anikó NÉMETH, Orsolya MAKRA, Lajos BALOGH-LANGER, Mihály SZATMÁRI, Enikő TÁNCZOS, Márta ZALATNAI, Judit KAPOCSI



**15.** Endangered plants in ex situ collection in Botanic garden of Klaipėda University  
Asta KLIMIENĖ, Algirdas ŠVANYS

**16.** Horticultural applicability of *Festuca* taxa (*Festuca wagneri*, *Festuca tomanii*)  
Gergely PÁPAY, Éva HORVÁTHNÉ BARACSI, Tünde SZABÓ-SZÖLLÖSI, Attila FÜRÉSZ, Dániel BALOGH, Antal SZÓKE, Antal Béla NEMÉNYI, Károly PENKSZA

**17.** Protection of plant species and their genetic resources; different species - different methods. The collection of protected, rare, endangered and valuable plant species for the Podkarpacie region  
Narcyz PIORECKI, Alicja KUCHARSKA, Mateusz WOLANIN, Ewa ANTONIEWSKA, Mariusz CZERNICKI

**18.** Protection of plant species and their genetic resources; different species - different methods. The pomological collection of historic varieties of apple tree (*Malus* Mill.), pear tree (*Pyrus* L.), and cornelian cherry (*Cornus mas* L.)  
Narcyz PIORECKI, Elżbieta ŻYGAŁA, Alicja KUCHARSKA, Dagmara LIB

**19.** The need to monitor the spontaneous flora of botanical gardens and arboretums to study the overall dynamics of regional floras of Ukraine  
Oleksandr SHYNDER

**20.** Digitalisation of the DBN herbarium at the National Botanic Gardens of Ireland  
Wuu Kuang SOH

**21.** The Ghent University Botanical Garden: towards expertise centre of Magnolia research for conservation  
Marie-Stéphanie SAMAIN, Kay VAN DAMME, Chantal DUGARDIN

**22.** From the Botanical Garden into the Wild - the Germany-wide joint-project for Wild Plant Conservation  
Elke ZIPPEL, Becker UTE, Anna HEINKEN-ŠMÍDOVÁ, Okka TSCHÖPE, Thomas BORSCH, Daniela LISTL and the WIPs-De-Consortium

## BGs AS ECO-ATTRACTIONS

**23.** Phytoremediation displays for better understanding plant-soil interactions  
Nerijus JURKONIS

**24.** Sustainable social practices and traditions within an arboretum, based on eco-friendly attractions  
Aleksandar TODOROV

**25.** Effects of the pandemia in Kecskemét Arboretum (events, visitors, plant collection) by Istvánné Sipos, Mónika Vörösváczi (2022)  
Mónika VÖRÖSVÁCZKI

## BGs AS EXPERIENCE-BASED CLASS-ROOMS

**26.** Botanical gardens as a meeting point between science and education  
Krasimir KOSEV, Anely NEDELICHEVA

**27.** "Botanist in the kitchen": Classic educational methods on digital and online platforms  
Károly PENKSZA, Szilárd SZENTES, Tünde SZABÓ-SZÖLLÖSI, Márk POZSONYI, Júlia ASZTALOS, Antal Béla NEMÉNYI, Éva HORVÁTHNÉ BARACSI, Judit BÓDIS, Gergely PÁPAY



**28. Educational strategies at Budapest Zoo and Botanical Garden**

Ádám SERDÜLT

**29. Revitalization and dendroflora improvement of the Botanical Garden Jevremovac**

Dragana SKOCAJIC, Dragana CAVLOVIC, Miroslava ZIVANOVIC, Marija JONCIC, Danijela SPARIC

**30. Educational, gardening programmes for children in Eötvös Loránd University Botanical Garden**

Zsuzsa SZAKACS-NAGY

**31. Be inspired! Interactive educational activities at Botanical Garden of Eszterházy Károly Catholic University (Hungary)**

Jana TÁBORSKÁ, Katalin HOROTÁN

**32. Experience nature first-hand or Educational activities in the Prague Botanical Garden**

Eva VÍTOVÁ, Eva NOVOZÁMSKÁ

**BGs AS GREEN LABORATORIES**

**33. Micropropagation activities in the ELTE Botanical Garden (1986-2021)**

Eszter R.ESZÉKI, Erika SZENDRÁK, Zoltán ILLYÉS, Attila GYEPES, Andrea TILLY-MÁNDY

**34. Plant adaptation experiments in the Kecskemét Arboretum in extreme conditions (of climate and soil) by Istvánné Sipos, Mónika Vörösváczi (2022)**

Mónika VÖRÖSVÁCZI

**BGs AS LIVING TREASURES**

**35. Phytocoenological display of meadows and dry grassland communities of Lithuania in Vytautas Magnus University Botanical Garden**

Arūnas BALSEVIČIUS, Ričardas NARIJAUSKAS

**36. VRBA, a database application of the Botanical garden Faculty of Science, University of Zagreb, Croatia**

Alan BUDISAVLJEVIĆ

**37. The development of living collections in the Adam Mickiewicz University Botanical Garden in Poznań**

Joanna JASKULSKA

**38. The National Program on Conservation and Utilization of Plant Genetic Resources**

Marketa MACHACKOVA, Pavel SEKERKA, Zuzana CASPERS

**39. Plant Genetic Resources in Vilnius University Botanical Garden**

Gitana STUKENIENE

**40. Survey of the largest trees in the Arboretum of Szarvas**

Sándor TÓTH, Katalin HANYECZ, Márta SOMLYAI

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**41. Bryophyte Collection of Eszterházy Károly Catholic University (EGR): the digital database of Malagasy specimens**

Gabriella FINTHA, Andrea SASS-GYARMATI



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**42.** The collection of *Actinidia kolomikta* in Botanical Garden of Vytautas Magnus University: preservation and evaluation

Laima CESONIENE, Remigijus DAUBARAS, Paulina STREIMIKYTE

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Silvia VILLEGAS

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Justyna WILAND-SZYMAŃSKA, Alicja KOLASIŃSKA, Michael KIEHN, Martin ROSE, Živa FIŠER

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Gabriella FINTHA, Marschall MARIANNA, Erika KÓNYA-PÉNZESNÉ, Andrea SASS-GYARMATI

**46.** Sustainable Gardens in Schools in Madrid, Spain

Silvia VILLEGAS

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Éva SZAKÁCS, Tímea FÖLDI, Gergely LUNK, Vince ZSIGMOND

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Justyna WILAND-SZYMAŃSKA, Alicja KOLASIŃSKA, Ewa KAZIMIERCZAK-GRYGIEL

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Katerina AGORASTOU

**50.** 200 years of the Hungarian National Botanic Garden

Vince ZSIGMOND, Tibor BÁRÁNY, Éva SZAKÁCS

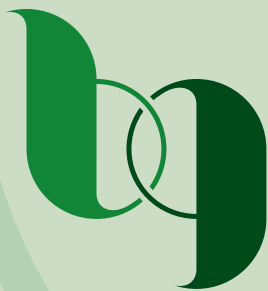
## PLANTA EUROPA - THE EPCS AS A REGIONAL RESPONSE TO THE GSPC

**51.** Citizen science tools for distance learning of botanical cycle disciplines in the pandemic time and beyond

Mykta PEREGRYM, Ingrid TURISOVÁ, Alexander TASHEV, Erika KÓNYA-PÉNZESNÉ, Nataliia MATSAI, Yuliia HAVRYLIUK

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