



XIV. Advances in the Research of Flora and Vegetation of the Carpathian Basin international conference

Presentations

In the following, only the presenter author's name is listed.

Plenary lectures

Papp, Beáta & Szurdoki, Erzsébet: Bryophyte monitoring in the last two decades in Hungary

Szymura, Tomasz: How we finally managed to map the species richness of vascular plants in Poland

Off-session talk

Török, Péter: PADAPT 1.0 – The trait database of the Pannonian flora and possibilities for its improvement

The Pannonicum Through Foreign Eyes

session chairs: Botta-Dukát, Zoltán; Király, Gergely; Molnár, Ábel Péter

session talks:

Dítě, Zuzana: Halophytic hotspots in Central Europe - what unites them and what divides them

Jogan, Jernej: How much Pannonian is Sub-Pannonian region of Slovenia

Roleček, Jan: Biogeography and history of the extremely species-rich peri-Carpathian forest-steppe meadows

The Pannonicum in the Mirror of Distant Places

session chairs: Molnár, Ábel Péter; Lengyel, Attila

session talks:

Barina, Zoltán: Carpathian –Balkan floristic relations

Molnár, Ábel Péter: How did eastern expeditions helped the development of the Flora Continuity Hypothesis?

Sramkó, Gábor: Biogeographic and phylogeographic patterns on the Eurasian Steppe — insights for the Pannonian part

Tölgyesi, Csaba: Forest-grassland coexistence from the Carpathian Basin to Manchuria

Old Questions – New Paradigms and Tools

session chairs: Csergő, Anna Mária; Deák, Balázs

session talks:

Csergő, Anna Mária: Effects of climatic conditions and geographic isolation on the performance of woodland sage (*Salvia nemorosa* L.) populations. Opportunities of a coordinated distributed study

Deák, Balázs: Relation between cultural and natural values on steppic burial mounds

Geml, József: Assessing the effect of slope aspect on ectomycorrhizal fungal community composition in Pannonian forests

Kis, Szabolcs: The role of historical digital archives in investigating the former distribution and folk knowledge of *Cicuta virosa*

Somodi, Imelda: Potential Natural Vegetation – the original concept of Tüxen in the service of new challenges

lightning talk:

Takács, Attila: Are rooting depth data measured on herbarium samples accurate enough?

Floristics and Taxonomy

session chairs: Schmidt, Dávid; Takács, Attila

session talks:

Csiky, János: On the species richness of pteridophytes in Hungary, spatio-temporal examples

Demeter, László: Current and preliminary flora research results from Dél-Nyírség

Matus, Gábor: *Nardus stricta* and other contributions to the flora of the Nyírség

Rigó, Attila: The spontaneous vascular flora of Budapest

Schmidt, Dávid: A wave of establishment of Mediterranean grass species in Hungary

Virók, Viktor: *Potentilla verna* is rediscovered in Hungary, data for getting to know the species

lightning talks:

Baráth, Kornél: Protected and endangered moss species in the Kőszeg Mountains

Höhn, Mária: „Tulip mania” - Recent survey on wild tulips in Hungary and the neighboring regions

Plant Ecology, Conservation, and Invasions

session chairs: Halassy, Melinda; Tölgyesi, Csaba

session talks:

Berki, Boglárka: Impact of five years of mechanical treatment of the invasive plant *Asclepias syriaca* L. on other plants in secondary grasslands

Botta-Dukát, Zoltán: Fight against the invasive plants – can we win?

Erdélyi, Arnold: Error in abundance estimates of invasive tree species at different sampling intensities

Fekete, Réka: Biogeographical patterns of anthropogenic orchid habitats

Kröel-Dulay, György: Climate change, extreme events, dominance shifts, and recoveries: eventful 25 years of an open sand grassland

Lukács, Katalin: Seed dispersal on clothing: The role of plant traits, habitat- and vector characteristics

Ódor, Péter: Canopy gaps are less susceptible to disturbance-related and invasive herbs than clear-cuts: Temporal changes in the understorey after experimental silvicultural treatment

Rédei, Tamás: The conservation status of oak forests in the Kiskunság region

lightning talks:

Godó, Laura: Hitchhiking seeds: The role of off-road vehicles in seed dispersal – preliminary results

Kovacsics-Vári, Gergely: Effect of increasing intensity of sheep grazing on the biomass of plant functional groups

Rigó, Attila: Invasion of sand dropseed (*Sporobolus cryptandrus* (Torr.) A.Gray) in Kiskunság (Hungary)

Sonkoly, Judit: Surveying nurseries and garden centres to assess their role as hubs of alien plant invasions

Szitár, Katalin: Plant diversity in villages in semi-natural and agricultural landscapes

Tanács, Eszter: Can satellite-based remote sensing aid the monitoring of *Sporobolus cryptandrus* (Torr.) A.Gray invasion?

Population Biology

session chairs: Lengyel, Attila; Malatinszky, Ákos

session talks:

Búzás, Előd: Snake's head fritillary survey in the Lower Zala Valley

Jordán, Sándor: The phylogenomic study of the spring meadow saffron (*Colchicum bulbocodium*) populations in the Carpathian basin

Kalydy, Nikolett: Status and ex situ propagation results of the Umbrella Groundsel (*Senecio umbrosus*) population in Tata

Nagy, János György: Accurately documented ex-situ species protection at MATE's Gödöllő and Buda Campuses between 1994-2023

Pacsai, Bálint: Ex situ studies on reproductive biology of *Sternbergia colchiciflora* Waldst. et Kit.

lightning talks:

Kiss, Réka: Effect of climatic parameters on the population dynamics of *Bulbocodium vernum*

Lábad, Vivien: Flowering rate can vary considerably in different populations of *Fritillaria meleagris*

Verbényiné Neumann, Krisztina: The relationship between enhanced seed dispersal and high plant density under increased heat load

Vegetation Science and Coenology

session chairs: Bátori, Zoltán; Valkó, Orsolya

session talks:

Biró, Marianna: National assessment of long-term, country-level changes of semi-natural and secondary habitats in Hungary

Kelemen, András: Abandoned sand mines as safe havens for endangered plants and communities

Molnár, Csaba: What is 200 years enough for? Is there spontaneous loess grassland regeneration in Hungary?

Pinke, Gyula: Factors influencing weed species composition in Hungarian phacelia fields

Tinya, Flóra: The resilient understory of oak-hornbeam forests: fine-scale treatments can preserve the forest character of the herb layer

Vadász, Csaba: Regeneration forest steppes on calcareous sand driven by repeated biotic facilitation (Central Hungary)

lightning talks:

Fülöp, Bence: Anything is better than abandonment for a *Molinia* grassland

Guller, Zsófia Eszter: The role of annual monitoring in understanding the regeneration process of a loess old-field

Juhász, Erika: The significance of beaver swaps and beaver meadows in landscape-level water retention and the challenges of their protection

Öllerer, Kinga: Livestock grazing in forests – historical knowledge enhances scientific understanding

Tóthmérész, Béla: The effect of woody encroachment to biodiversity of loess steppe fragments

Vadász-Besnyői, Vera: Diversification of old-fields in Upper Kiskunság (Central Hungary) by in situ sowing of seeds of plant species with limited dispersal ability, with ex situ control

Posters

Bak, Henrietta: What factors lie behind the successful roadside spread of *Plantago coronopus*?

Balogh, Lajos: Portrait gallery of researchers of the higher flora of Vas County, Western-Hungary

Barina, Zoltán: Annual dynamics of plant species coverage in different habitats

Batdelger, Gantuya: Mongolian herders' knowledge of plant species and habitats

Bérces, Sándor: Conservation of the *Astragalus dasyanthus* in the Danube-Ipoly National Park Directorate

Bóhm, Éva Irén: The landscape history of Szentendre Island III.

Csathó, András István: Does the sowing of competitive grasses really control weed cover?

Csecserits, Anikó: What can a cactus do in our country? - The local spread and impact of the Eastern prickly pear (*Opuntia humifusa*) near Kunbaracs

Deák, József Áron: Actual landscape scale natural habitat's map of Balástya

Dukay, Igor: Landscape historical study of the regeneration of ash-alder forest along the Bükkös stream in Szentendre

Engel, Rita: Ancient burial mounds provide ecosystem services by preserving medicinal plants from grasslands

Frei, Kata: Forested dolines as potential climate, hydrologic and resource microrefugia

Geml, József: Evaluating the influence of abiotic environmental conditions on the compositional dynamics of plant pathogenic fungal communities in Pannonian forests

Gyalus, Adrienn: The effect of microtopography and woody species cover on open sandy grassland response to extreme drought

Halassy, Melinda: Spatial prioritization of restoration of sandy habitats based on potential vegetation, local environmental factors and landscape naturalness in the Danube-Tisza Interfluve

Házi, Judit: Interaction of treatment and spontaneous succession in an experiment to control a native dominant species

Koszta, Mihály: Characteristics of woody edge habitats formed via natural vegetation dynamic processes in the Peszér forest (Central Hungary)

Kovács, Dániel: Reintroduction of plant species in the Tápió region (Central Hungary) - the first results

Kovács, Éva: Results of Oak mildew experiment in the Peszér forest (Central Hungary)

Kulcsár, László: Book on protected higher plant species of Vas County, Western-Hungary

Küzmic, Filip: Vegetation survey methodology in arable weeds is reported with less detail from vegetation science than weed science

- Lengyel, Attila:** Effects of co-invasion of *Asclepias syriaca* and *Solidago* spp. on the vegetation diversity of sandy old-fields
- Li, Gábor:** How does the presence of canopy gaps influence the microclimate and vegetation in dolines?
- Lisztes-Szabó, Zsuzsa:** Microbotanical remains as hidden palaeoenvironmental indicators of the Carpathian-Pannonian region
- Malatinszky, Ákos:** Examination of the effects of goat grazing in reforesting orchards – baseline study
- McIntosh-Buday, Andrea:** Alkaline and loess grasslands with contrasting richness and biomass patterns are not separated on the CSR strategy spectrum
- Mile, Orsolya:** Investigation of *Diantus diutinus* stands with shading simulation experiment
- Ordonez, Santiago:** Large yearly macroclimate fluctuations and local heat load govern the intraspecific trait variation in isolated populations of a dry grassland specialist, *Salvia nemorosa* L.
- Purger, Dragica:** Vegetation changes in loess grasslands dominated by *Chrysopogon gryllus* in western Bačka (Serbia)
- Rusvai, Katalin:** The dynamics of weed vegetation of bait sites in relation to main climatic factors
- Saláta, Dénes:** Studies on growth of native and non-native tree species based on tree-ring samples in the Fácános forest, Gödöllő
- Schmidt, Dávid:** Distribution and infection value of the pine mistletoe (*Viscum album* L. subsp. *austriacum* (Wiesb.)) in Hungary
- Sinigla, Mónika:** Current lichen mapping of the XI. district of Budapest
- Süveges, Kristóf:** Botanical survey of gravel pits
- Tóth, Ágnes:** The vertical distribution of the soil seed bank in fen meadows and implications for restoration
- Tóth, Balázs:** Gap dynamics and changes in herbaceous layer in the unmanaged Sessile oak stand of the Völgyfő Project
- Tóth, Benedek György:** Suppressing the invasive *Asclepias syriaca* saves soil moisture reserves
- Tóth, Katalin:** Accumulated soil seed bank of the invasive sand dropseed (*Sporobolus cryptandrus*) poses a challenge for its suppression
- Törő-Szijgyártó, Viktória:** Does seed size and shape predict persistence in the soil in the Hungarian flora?

Valkó, Orsolya: Cranes as ecosystem engineers in alkali grasslands: effects of soil disturbance on vegetation dynamics

Varga, Nóra: New and interesting records to the lichen-forming and lichenicolous fungi of the Szalonnai-hegység Mts (NE Hungary)

Verbényiné Neumann, Krisztina: The relationship between enhanced seed dispersal and high plant density under increased heat load

Vörös, Amira Fatime: The effect of altered precipitation on above- and belowground biomass allocation in a semi-arid grassland