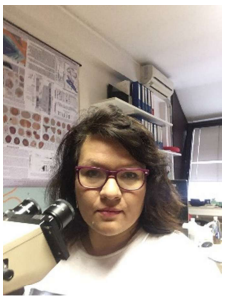
Dr. sc. Viktória Baranyi



Palinolog
Viša znanstvena suradnica

Zavod za geologiju

Znanstveni interesi

- Palinologija mezozoijskih-neogenskih naslaga
- Paleoklimatlogija, rekontrukcija paleovegetacije
- Anoksički i hipertermalni događaji, globalno zatopljenje u kontinentalnim ekosustavima
- Interkacije između biosfere i litosfere
- Stabilne izotope (C_{org}) i geokemijski proksijevi

Biografija

- 2023 – danas : Palinolog, Hrvatski geološki institut
- 2019 –2023 : Viši asistent, palinolog, Hrvatski geološki institut
- 2014 –2018 : Doktorski studiji, Sveučilište u Oslou, Norveška
- 2006–2012 : Diplomski studij u geoznanosti i geologije (BSc, MSc), Eötvös Loránd Sveučilište u Budimpešti, Mađarska

Vještine

- Palinološka analiza prekvartarnih naslaga (trjias-jura, neogen)
- Uzorkovanje i palinolška priprema
- Interpretacija geokemijskih podataka (C_{org}, XRD, XRF, ICP-MS)
- SEM, TEM analiza palinomorfa
- Statistička analiza paleontoloških podataka (PAST, Tilia)
- Organizacija kongresa (NECLIME Annual Conference 2025)
- CorelDraw, Grapher 10, Adobe Photoshop
- Aktivno korištenje engleskog, njemačkog, mađarskog i hrvatskog jezika

Projekti i suradnje

- **WEGETA** Splet trošenja i vegetacije - korištenje različitih pokazatelja za razumijevanje razvoja terestričkih ekosustava u vremenu globalnih klimatskih promjena (Interni istraživački projekt Hrvatskog geološkog instituta. Financirani iz programa Nacionalnog plana oporavka i otpornosti 2021–2026, Europske Unije – NextGenerationEU, trajanje projekta: 01.01.2024 – 31.12.2027, voditeljica)
- **GEACAP i GeoSAVAGE** (Interni istraživački projekt Hrvatskog geološkog instituta. Financirani iz programa Nacionalnog plana oporavka i otpornosti 2021–2026, Europske Unije – NextGenerationEU, trajanje projekta: 01.01.2024 – 31.12.2027, suradnik)
- **Climate and environmental change in the Transdanubian Range during the Carnian (Late Triassic): an integrated biostratigraphical, paleoecological and geochemical approach** (istraživački projekt, broj projekta 134229, voditeljica: Emőke Mohr, Zavod za paleontologiju, Eötvös Loránd Sveučilište, Mađarska, trajanje projekta: 01.12.2020.-30.11.2025, suradnik)
- The endemic molluscs of Lake Pannon: taxonomy, paleoecology, biochronology, evolution (istraživački projekt, broj projekta: 143787, voditelj: Imre Magyar, MOL Group Hungary, trajanje projekta: 01.12.2022-30.11.2026, suradnik)

Odbori i komisije

- Član uredničkog odbora časopisa Mesozoic, Magnolia Press, New Zealand
- Od 2020 glasajući član Podkomisije za Stratigrafiju jure Međunarodne Komisije za stratigrafiju

Članstva

- Hrvatsko geološko društvo (HGD)
- American Association of Stratigraphic Palynologists
- International Association of Sedimentologists (IAS)

Bibliografija

- Viktória Baranyi Croris (link)
- Viktoria Baranyi Researchgate (link)

Najznačajniji radovi (5-10 radova)

Baranyi, V., Budai, T., Karádi, V., Jin, X., Kürschner, W.M., Tóth, E., 2025. Vegetation and climate record across the Carnian Pluvial episode from the

Transdanubian Range, Hungary, Western Tethys. Palaeogeography, Palaeoclimatology, Palaeoecology 671, 112989.

Jin, X., Baranyi, V.*, Kemp, D.B., Shi, Z., Zou, H., Li, B., Zhang, Y., Franceschi, M., 2025. Early Jurassic carbon cycle perturbations recorded in terrestrial sediments of the Sichuan Basin, China. Geoscience Frontiers 16, 102073.

Baranyi, V., Jin, X., Dal Corso, J., Li, B., Kemp, D.B., 2024. Vegetation response to climate change during an Early Jurassic hyperthermal event (Jenkyns Event) from Northern China (Ordos Basin). Palaeogeography, Palaeoclimatology, Palaeoecology 643, 112180.

Tóth, E., Baranyi, V.*, Karádi, V., Jin, X., Budai, T., 2024. Ostracod turnover during the Carnian Pluvial Episode (Late Triassic) in the Western Neotethys. Palaeogeography, Palaeoclimatology, Palaeoecology 650, 112379.

Baranyi, V., Jin, X., Dal Corso, J., Shi, Z., Grasby, S.E., Kemp, D.B., 2023. Collapse of terrestrial ecosystems linked to heavy metal poisoning during the Toarcian oceanic anoxic event. Geology 51(7), 652–656.

Baranyi, V., et al., 2022. Revision of the endemic dinoflagellate cyst genus Pontiadinium from Lake Pannon and the Paratethys realm (late Miocene-early Pliocene, Central Europe). Palynology, 46, 2014367.

Baranyi, V., et al., 2021. Palaeoenvironmental changes and vegetation of the Transylvanian Basin in the early stages of Lake Pannon (Late Miocene, Tortonian). Review of Palaeobotany and Palynology, 284, 104340.

Viktória Baranyi PhD

Palynologist
Senior Scientific Associate

Department of Geology

Scientific interests

- Pre-Quaternary palynology (Mezoic-Neogene)
- Paleoclimatology, vegetation reconstruction
- Anoxic and hyperthermal events, effects of global warmin on terrestrial ecosystems
- Ecological connectivity between land and sea, interaction between the biosphere and lithosphere
- Stable isotope analysis (C_{org}) and geochemical proxies

Biography

- 2023 – present: Palynologist, Croatian Geological Survey
- 2019 –2023: Postdoctoral researcher, Croatian Geological Survey
- 2014 –2018: PhD, University of Oslo, Norway
- 2006–2012 : BSc, MSc in Geosciences and Geology, Eötvös Loránd University, Budapest, Hungary

Skills

- Pre-Quaternary palynology (Triassic-Jurassic, Neogene)
- Sampling and laboratory procedures of palynological preparation
- Interpretation of geochemical proxies (C_{org}, XRD, XRF, ICP-MS)
- SEM, TEM analysis in palynology
- Statistical anlyses of paleontological data (PAST, Tilia)
- Conference organization (NECLIME Annual Conference 2025)
- CorelDraw, Grapher 10, Adobe Photoshop
- Full working proficiency in English and Hungarian, limited working proficiency in German and Croatian languages

Projexcts and collaboration

- **WEGETA** WEathering and VEGETAtion intertwined — multiproxy approach to understand the fate of terrestrial ecosystems in times of global climate change (Internal research projects at the Croatian Geological Survey, funded by the National Recovery and Resilience Plan 2021–2026, of the European Union – NextGenerationEU, duration: 01.01.2024–31.12.2027, PI)
- **GEACAP i GeoSAVAGE** (Internal research projects at the Croatian Geological Survey, funded by the National Recovery and Resilience Plan 2021–2026, of the European Union – NextGenerationEU, duration: 01.01.2024–31.12.2027, research team member)
- **Climate and environmental change in the Transdanubian Range during the Carnian (Late Triassic): an integrated biostratigraphical, paleoecological and geochemical approach** (research project 134229 od the NKFI Hungarian National Research, Development and Innovation Office, PI: Emőke Mohr, Department of Paleontology, Eötvös Loránd University, Hungary, duration: 01.12.2020.-30.11.2025, research team member)
- **The endemic molluscs of Lake Pannon: taxonomy, paleoecology, biochronology, evolution** (research project 143787 of the NKFI Hungarian National Research, Development and Innovation Office, PI: Imre Magyar, MOL Group Hungary, duration: 01.12.2022-30.11.2026, research team member)

Memberships in editorial boards and commissions

- Editorial board member of the journal, *Mesozoic*, Magnolia Press, New Zealand
- Since 2020 voting member of Subcommision of Jurassic Stratigraphy of the International Commission on Stratigraphy

Memberships

- Croatian Geological Society (HGD)
- American Association of Stratigraphic Palynologists
- International Association of Sedimentologists (IAS)

Bibliography

- Viktória Baranyi Croris (link)
- Viktoria Baranyi Researchgate (link)

Most important works (5-10 publications)

Baranyi, V., Budai, T., Karádi, V., Jin, X., Kürschner, W.M., Tóth, E., 2025. Vegetation and climate record across the Carnian Pluvial episode from the Transdanubian Range, Hungary, Western Tethys. Palaeogeography, Palaeoclimatology, Palaeoecology 671, 112989.

Jin, X., Baranyi, V.*, Kemp, D.B., Shi, Z., Zou, H., Li, B., Zhang, Y., Franceschi, M., 2025. Early Jurassic carbon cycle perturbations recorded in terrestrial sediments of the Sichuan Basin, China. Geoscience Frontiers 16, 102073.

Baranyi, V., Jin, X., Dal Corso, J., Li, B., Kemp, D.B., 2024. Vegetation response to climate change during an Early Jurassic hyperthermal event (Jenkyns Event) from Northern China (Ordos Basin). Palaeogeography, Palaeoclimatology, Palaeoecology 643, 112180.

Tóth, E., Baranyi, V.*, Karádi, V., Jin, X., Budai, T., 2024. Ostracod turnover during the Carnian Pluvial Episode (Late Triassic) in the Western Neotethys. Palaeogeography, Palaeoclimatology, Palaeoecology 650, 112379.

Baranyi, V., Jin, X., Dal Corso, J., Shi, Z., Grasby, S.E., Kemp, D.B., 2023. Collapse of terrestrial ecosystems linked to heavy metal poisoning during the Toarcian oceanic anoxic event. Geology 51(7), 652–656.

Baranyi, V., et al., 2022. Revision of the endemic dinoflagellate cyst genus Pontiadinium from Lake Pannon and the Paratethys realm (late Miocene-early Pliocene, Central Europe). Palynology, 46, 2014367.

Baranyi, V., et al., 2021. Palaeoenvironmental changes and vegetation of the Transylvanian Basin in the early stages of Lake Pannon (Late Miocene, Tortonian). Review of Palaeobotany and Palynology, 284, 104340.