

ANEXA III – ACTIVITĂȚI DE DISEMINARE în anul 2023 – Proiect PN-III-P4-ID-PCE-2020-2570, Contract PCE 132/2021

CO-ORGANIZATOR

- 14th Romanian Symposium of Palaeontology, București, Romania, 14-15 septembrie 2023



**Sponsored by**

E.ON Energie Romania S.A.



INCD GeoEcoMar  
Proiect, PNCDI III, No. 23PFE/30.12.2021



Proiect PNIII, No. 42/04.01.2021  
OCEANROC

University of Bucharest  
Proiect PNIII, No. 132/12.02.2021

**MULTI-BRAIN**

GEOLOGIC DON SRL

# TIPĂRIREA VOLUMULUI CONFERINȚEI

- 14th Romanian Symposium of Palaeontology, București, Romania, 14-15 septembrie 2023



## Sponsored by

E.ON Energie Romania S.A.



GEOLOGIC DON SRL

INCD GeoEcoMar

Project PNCDI III, No. 23PFE/30.12.2021



Project PNIII, No. 42/04.01.2021

OCEANROC

University of Bucharest

Project PNIII, No. 132/12.02.2021

**MULTI-BRAIN**

THE 14<sup>th</sup> ROMANIAN SYMPOSIUM ON PALAEOLOGY

THE 14<sup>th</sup> ROMANIAN

# SYMPOSIUM ON PALAEOLOGY

BUCHAREST - September 14<sup>th</sup> - 15<sup>th</sup>, 2023

## ABSTRACT BOOK



EDITED BY  
ZOLTÁN CSIKI-SAVA, ALINA FLOROIU, MARIA-RALUCA  
VĂCĂRESCU & IULIANA LAZAR

ISSN 2344-3499  
ISSN-L 2344-3499  
ISBN 978-606-16-1390-8



EDITURA UNIVERSITĂȚII DIN BUCUREȘTI  
BUCHAREST UNIVERSITY PRESS

2023



**PARTICIPĂRI LA CONFERINȚE ȘTIINȚIFICE INTERNAȚIONALE ȘI NAȚIONALE  
în anul 2023 – Proiect PN-III-P4-ID-PCE-2020-2570, Contract PCE 132/2021 – membrii  
echipei de cercetători**

**6th International Meeting of Early-stage Researchers in Palaeontology (IMERP) / XXI  
Encuentro de Jóvenes Investigadores en Paleontología (EJIP), Lourinhã, Portugalia, 11-15  
aprilie 2023**



**Popping open the treasure chest: Palaeontological and  
sedimentological investigations of new Late Cretaceous  
(Maastrichtian) vertebrate fossil localities from the Vălioara valley  
(Densuș-Ciula Formation, Hațeg Basin, Romania)**

MARIA-RALUCA VĂCĂRESCU, JÁNOS MAGYAR, ZOLTÁN CSIKI-SAVA,  
GÁBOR BOTFALVAI



NATIONAL  
RESEARCH, DEVELOPMENT  
AND INNOVATION OFFICE



MINISTRY FOR  
INNOVATION AND TECHNOLOGY



Új Nemzeti  
Kiválóság Program

## Acknowledgements



### Funding support

NKFIH OTKA PD (grant 131557), Bolyai János  
Research Scholarship, ÚNKP 2020, 2021 and 2022,  
UEFISCDI (PN-III-P4-ID-PCE-2020-2570)

### Supporting institutions

SZTFH Vertebrate Palaeontology Collection,  
Hungarian Museum of Natural History, Hațeg  
UNESCO Global Geopark, University of Bucharest,  
ELTE TTK Palaeontology Chair, HUN-REN-MTM-  
ELTE Palaeontology Research Group

### Personal contributions in the field

Albert Gáspár, Budai Soma, Makádi László, Falusi Gábor,  
Gulyás Péter, Pecsics Tibor, Koczó Levente, Konecsni Gergő,  
Ősi Attila, Daniel Țabără, Ștefan Vasile



# 20th Annual Meeting of the European Association of Vertebrate Palaeontologists, Sabadell, Spain, 26 iunie-1 iulie 2023



20th Annual Meeting of the European Association of Vertebrate Palaeontologists,  
26th June-1st July 2023, Sabadell, Barcelona, Spain



## *Tales from the Treasure Island:* Evolutionary significance of the kogaionid multituberculates from the latest Cretaceous Hațeg Island

Zoltán CSIKI-SAVA<sup>1</sup>, Jin MENG<sup>2</sup>, Mátyás VREMIR<sup>3†</sup>, Ștefan VASILE<sup>1</sup>,  
Stephen L. BRUSATTE<sup>4</sup> & Mark A. NORELL<sup>2</sup>

<sup>1</sup>Department of Geology, Mineralogy and Palaeontology, University of Bucharest, 1 Nicolae Bălcescu Ave., 010041 Bucharest, Romania, e-mail: zoltan.csiki@g.unibuc.ro, yokozuna\_uz@yahoo.com

<sup>2</sup>Division of Paleontology, American Museum of Natural History, 200 Central Park West, 10024, New York, USA, e-mail: jimeng@amnh.org, norell@amnh.org

<sup>3</sup>Department of Natural Sciences, Transylvanian Museum Society, 400009, Cluj-Napoca, Romania. <sup>†</sup> Deceased.

<sup>4</sup>School of Geosciences, University of Edinburgh, EH9 3FE, Edinburgh, UK. email: Stephen.Brusatte@ed.ac.uk

**TAKE-HOME MESSAGE** - The fossil record of the Kogaionidae, European endemic derived multituberculates and exclusive mammalian inhabitants of the latest Cretaceous Hațeg Island, documents a unique story of mammalian island adaptive radiation, one of the very few known from the Mesozoic. New discoveries and continuing research efforts are expected to yield further insights into the details of the 'anatomy' and evolutionary history of this radiation...

### References:

- BENTON, M.J., CZEZ, Z., GREGORCIU, D., REIDSTORFF, R., SANDER, P.M., STERN, K., WEISSHAPPEL, D.B., 2010. Dinosaurs and the island rule: The dwarfed dinosaur from Hațeg Island. *Paleogeography, Palaeoclimatology, Palaeoecology*, 293: 438–454.  
CSIKI-SAVA, Z., BUFFETAUT, E., ŐR, A., PEREDA-SUBERBIA, X., BRUSATTE, S.L., 2015. Island life in the Cretaceous – faunal composition, biogeography, evolution, and extinction of land-living vertebrates on the Late Cretaceous European archipelago. *Zookeys*, 469: 1–161.  
CSIKI-SAVA, Z., VREMIR, M., MENG, J., BRUSATTE, S.L., NORELL, M.A., 2018. Dome-headed, small-brained insular mammal from the Late Cretaceous of Romania. *Proceedings of the National Academy of Sciences USA*, 115(19): 4857–4862.  
CSIKI-SAVA, Z., VREMIR, M., MENG, J., VASILE, Ș., BRUSATTE, S.L., NORELL, M.A., 2022. Spatial and temporal distribution of the island-dwelling Kogaionidae (Mammalia, Multituberculata) in the uppermost Cretaceous of Transylvania (western Romania). *Bulletin of the American Museum of Natural History*, 456: 1–109.  
SMITH, T., COOREA, V.A., DEVLLET, G., SOLOMON, A.A., 2022. A new mammal skull from the Late Cretaceous of Romania and phylogenetic affinities of kogaionid multituberculates. *Journal of Mammalian Evolution*, 29: 1–26.  
SMITH, T.A., COOREA, V.A., VENCZE, M., SMITH, T., 2022. New data on *Barbatodon caradacensis* Codrea, Solomon, Vencze & Smith, 2014, the smallest Late Cretaceous multituberculate mammal from Europe. *Comptes Rendus Palevol*, 21(13): 253–271.

### Acknowledgments:

This research was supported by a grant of the Romanian Ministry of Research, Innovation and Digitalization, CNCS-UEFISCDI grant PN-III-P4-ID-PCE-2020-2570, within PNCDI III



## 14th Romanian Symposium of Palaeontology, București, Romania, 14-15 septembrie 2023

### Amphibians and lizards from a new Upper Cretaceous site at Vălioara (Hunedoara County, Romania)



MAKÁDI, László<sup>1</sup>; CSIKI-SAVA, Zoltán<sup>2\*</sup>; BOTFALVAI, Gábor<sup>3,4</sup>

<sup>1</sup>Supervisory Authority for Regulatory Affairs, Department of Collections, 1143 Budapest, Stefánia út 14.; laszlo.makadi@sztfh.hu

<sup>2</sup>University of Bucharest, Faculty of Geology and Geophysics, Laboratory of Paleontology, 1 N. Bălcescu Blvd. 010041 Bucharest, zoltan.csiki@g.unibuc.ro

<sup>3</sup>Eötvös University, Department of Paleontology, H-1117 Budapest, Pázmány Péter sétány 1/c.; botfalvai.gabor@gmail.com

<sup>4</sup>MTA-MTM-ELTE Research Group for Paleontology, 1083 Budapest, Ludovika tér 2-6.

### References

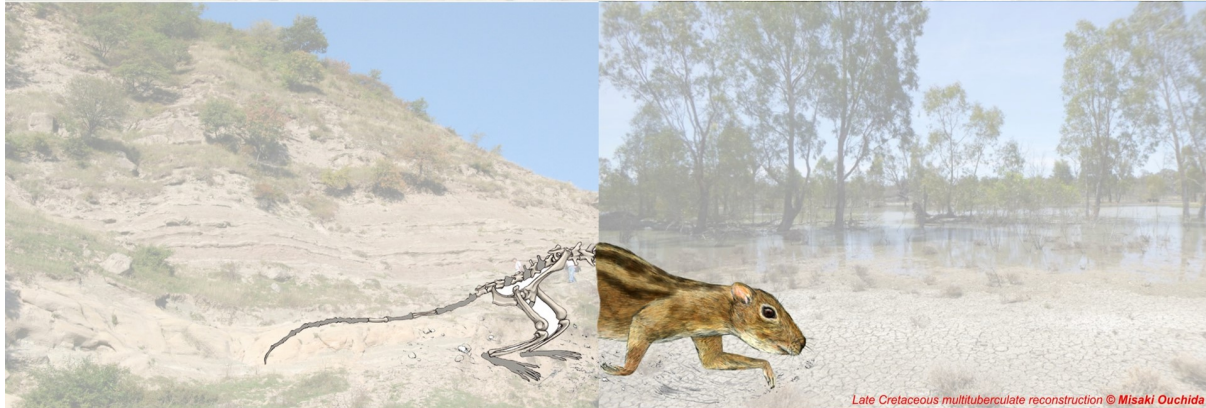
- BOTFALVAI, G., CSIKI-SAVA, Z., KOCSIS, L., ALBERT, G., MAYER, J., BOON, E.R., TAJÁR, D., ULYANOV, A. B. MAKÁDI, L. 2021. 'X' marks the spot! Sedimentological, geochemical and palaeontological investigations of Upper Cretaceous (Maastrichtian) vertebrate fossil localities from the Vălioara valley (Densuş-Cula Formation, Hațeg Basin, Romania). *Cretaceous Research* 123: 104781.  
COOREA, V.A., VENCZE, M. & SOLOMON, A. 2017. A new family of teiid lizards from the Upper Cretaceous of Romania with notes on the evolutionary history of early teioids. *Zoological Journal of the Linnean Society* 181(2): 385–399.  
FOUR, A. & COOREA, V.A. 2005. New Issambambians and squamates from the Maastrichtian of Hațeg Basin, Romania. *Acta Palaeontologica Polonica* 50: 57–71.  
GARDNER, J.D., EVANS, S.E. & SIBOGNEAU-RUSSELL, D. 2003. New albanerpetontid amphibians from the Early Cretaceous of Morocco and Middle Jurassic of England. *Acta Palaeontologica Polonica* 48: 301–319.  
MAKÁDI, L. 2007. Study of the separate fauna of the Upper Cretaceous Cséhányai Formation (In Hungarian: A felső-kretás Cséhányai Formáció (Iharút, Bakony) Squamata faunájának vizsgálata). MSc thesis, Eötvös University, Department of Paleontology, Budapest, 38 p.  
MATSUOKA, R. & EVANS, S.E. 2019. The first record of albanerpetontid amphibians (Amphibia: Albanerpetontidae) from East Asia. *PLoS ONE* 13(1): e0189767.  
SCHWETZ, Z., GARDNER, J.D. & VENCZE, M. 2013. Albanerpetontid amphibians from the Late Cretaceous (Santonian) of Iharút, Hungary, with remarks on regional differences in Late Cretaceous Laurasian amphibian assemblages. *Canadian Journal of Earth Sciences* 50(3): 268–281.  
VENCZE, M. & COOREA, V.A. 2015. A new teiid lizard from the Late Cretaceous of the Hațeg Basin, Romania and its phylogenetic and palaeobiogeographical relationships. *Journal of Systematic Palaeontology* 14(3): 215–237.

### Acknowledgements

Research was supported by the Hungarian National Research, Development and Innovation Office (project MKFI/OTKA PD 131557) to G.B., the Hungarian Dinosaur Foundation, and CNCS-UEFISCDI project PN-III-P4-ID-PCE-2020-2570 within the PNCDI III, to Z.C.S.



## A new, long view on an old mammalian island radiation – updating the history of kogaionid multituberculates



Zoltán CSIKI-SAVA<sup>1,2</sup>, Ramona BĂLC<sup>2,3,4</sup>, Mihai N. DUCEA<sup>1,5</sup>, Daniel ȚABĂRĂ<sup>2,6</sup> & Ștefan VASILE<sup>1,2</sup>

<sup>1</sup> University of Bucharest, Department of Geology, Mineralogy and Palaeontology, 1 N. Bălcescu Boulevard, 010041 Bucharest, Romania, e-mail: zoltan.csiki@g.unibuc.ro, ducea@arizona.edu, yokozuna\_uz@yahoo.com

<sup>2</sup> Center for Risk Studies, Space Modeling and Dynamics of Terrestrial and Coastal Systems, University of Bucharest, 1 Nicolae Bălcescu Ave., 010041 Bucharest, Romania

<sup>3</sup> Babeș-Bolyai University, Faculty of Environmental Science and Engineering, 30 Fântânele Street, 400294 Cluj-Napoca, Romania, e-mail: ramona.balc@ubbcluj.ro

<sup>4</sup> Interdisciplinary Research Institute on Bio-Nano Sciences, Babeș-Bolyai University, 42 Treboniu Laurian Street, 400271 Cluj-Napoca, Romania

<sup>5</sup> Department of Geosciences, University of Arizona, Tucson, AZ, 85721, USA

<sup>6</sup> "Al. I. Cuza" University of Iași, Department of Geology, 20A Carol I Boulevard, 700505 Iași, Romania, e-mail: dan.tabara@yahoo.com

THANKS to all our colleagues who helped/contributed (and still do) to this project, from Romania and abroad

The research was supported by the Romanian Ministry of Research, Innovation and Digitalization, CNCS–UEFISCDI grant PN-III-P4-ID-PCE-2020-2570, within PNCDI III.

*uefiscdi*

Executive Agency for Higher Education, Research, Development and Innovation Funding

THANK YOU FOR YOUR ATTENTION!





## 14th Romanian Symposium of Palaeontology, București, Romania, 14-15 septembrie 2023

### New biostratigraphic and palaeoenvironmental constraints in the uppermost Cretaceous deposits from the Ciula Mică (Geat Valley) – west Vălioara area, northwestern Hațeg Basin (Romania)

Zoltán CSIKI-SAVA<sup>1</sup>, Daniel ȚABĂRĂ<sup>2</sup>, Ramona BĂLC<sup>3</sup>, Raluca BINDIU-HAITONIC<sup>4</sup>, Gábor BOTFALVAI<sup>5,6</sup>, Gáspár ALBERT<sup>7</sup> & Ștefan VASILE<sup>1</sup>

<sup>1</sup> University of Bucharest, Department of Geology, Mineralogy and Palaeontology, 1 N. Bălcescu Boulevard, 010041 Bucharest, Romania, e-mail: zoltan.csiki@g.unibuc.ro, yokozuna\_uz@yahoo.com

<sup>2</sup> "Al. I. Cuza" University of Iași, Department of Geology, 20A Carol I Boulevard, 700505 Iași, Romania, e-mail: dan.tabara@yahoo.com

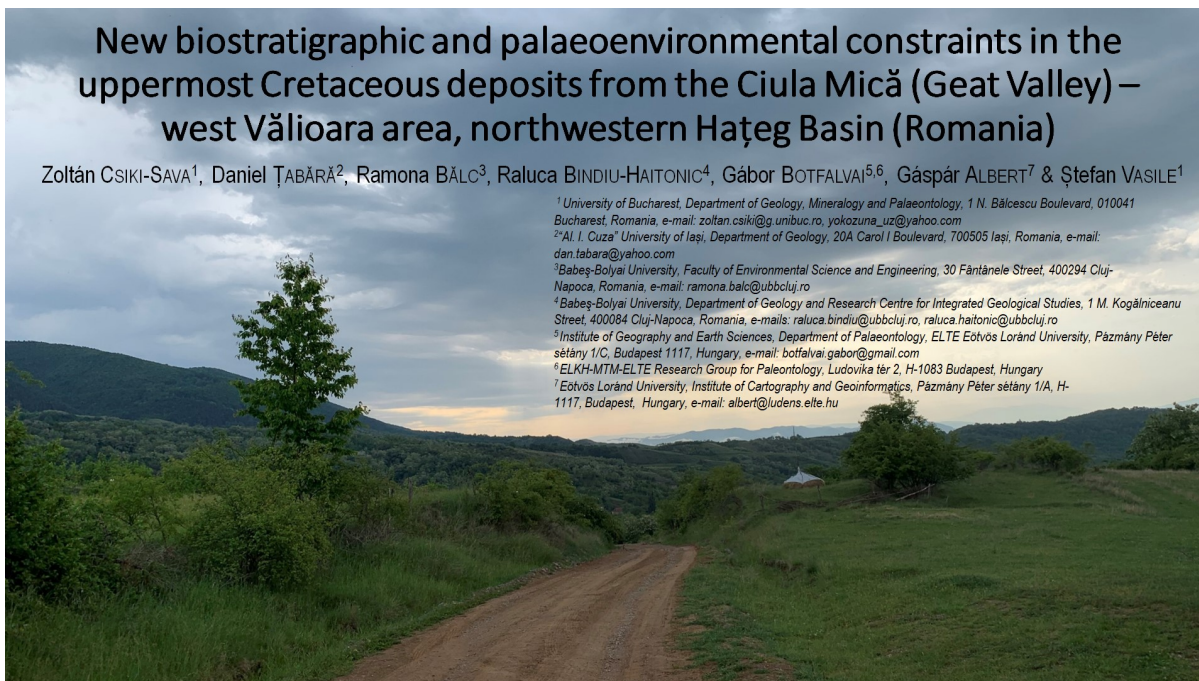
<sup>3</sup> Babeș-Bolyai University, Faculty of Environmental Science and Engineering, 30 Fântânele Street, 400294 Cluj-Napoca, Romania, e-mail: ramona.balc@ubbcluj.ro

<sup>4</sup> Babeș-Bolyai University, Department of Geology and Research Centre for Integrated Geological Studies, 1 M. Kogălniceanu Street, 400084 Cluj-Napoca, Romania, e-mails: raluca.bindiu@ubbcluj.ro, raluca.haitonic@ubbcluj.ro

<sup>5</sup> Institute of Geography and Earth Sciences, Department of Palaeontology, ELTE Eötvös Loránd University, Pázmány Péter sétány 1/C, Budapest 1117, Hungary, e-mail: botfalvai.gabor@gmail.com

<sup>6</sup> ELKH-MTM-ELTE Research Group for Paleontology, Ludovika tér 2, H-1083 Budapest, Hungary

<sup>7</sup> Eötvös Loránd University, Institute of Cartography and Geoinformatics, Pázmány Péter sétány 1/A, H-1117, Budapest, Hungary, e-mail: albert@udens.elte.hu



**THANK YOU  
FOR YOUR ATTENTION!**



The research was supported by the János Bolyai Research Scholarship, the NKFIH PD 131557 and K131597 projects, the MBFSZ FKFO-11 project, the Hungarian Dinosaur Foundation, and the Romanian Ministry of Research, Innovation and Digitalization, CNCS–UEFISCDI grant PN-III-P4-ID-PCE-2020-2570, within PNCDI III.





# 14th Romanian Symposium of Palaeontology, București, Romania, 14-15 septembrie 2023

**The Head and Tail of It** - Rhabdodontid (Dinosauria, Ornithopoda) diversity suggested by the first documented occurrence of associated cranial and postcranial material at Vălioara (uppermost Cretaceous Densuș-Ciula Formation, Hațeg Basin, Romania)



János MAGYAR, Zoltán CSIKI-SAVA, Felix J. AUGUSTIN, Attila ÓSI & Gábor BOTFALVAI



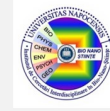
## Acknowledgements:

- Dr. Susannah Maidment
- Babett Balogh
- Soma Budai
- Gábor Falusi
- Attila Fitos
- Péter Gulyás
- Gergő Konecsni
- László Makádi
- Maria-Raluca Văcărescu
- Zoltán Munkácsy
- Tibor Pecsics
- Alexandra Szabó
- Kristóf Máth

The research was supported by the János Bolyai Research Scholarship, the NKFIH PD 131557 and K131597 projects, the MBFSZ FKFO-11 project, the Hungarian Dinosaur Foundation, and the Romanian Ministry of Research, Innovation and Digitalization, CNCS–UEFISCDI grant PN-III-P4-ID-PCE-2020-2570, within PNCDI III.



14th Romanian Symposium of Palaeontology, București, Romania, 14-15 septembrie 2023



Revisiting and updating the biochronology and palaeoenvironmental interpretations of the Bozeș Formation deposits from the south-eastern part of the Apuseni Mountains (Romania)

**Authors:**

Ramona BĂLC, Raluca BINDIU-HAITONIC, George GABOR, Szabolcs-Attila KÖVECSI, Daniel ȚABĂRĂ,  
Horia BEDELEAN, Lorand SILYE, Zoltan CSIKI-SAVA, Mihai DUCEA



**Thank you very much for your attention!**

*This work was supported by a grant of the Ministry of Research, Innovation and Digitization, CNCS/CCCDI – UEFISCDI, project number PN-III-P4-ID-PCE-2020-2570, within PNCDI III.*



## Another Fountain of (Palaeontological) Wealth – preliminary report on a new fossiliferous locality from Fântânele, Vălioara (Hațeg Basin)

Zoltán CSIKI-SAVA<sup>1</sup>, Soma BUDAI<sup>2</sup>, János MAGYAR<sup>3</sup> & Gábor BOTFALVAI<sup>3,4</sup>

<sup>1</sup>University of Bucharest, Department of Geology, Mineralogy and Palaeontology, 1 N. Bălcescu Blvd., 010041 Bucharest, Romania, e-mail: zoltan.csiki@g.unibuc.ro

<sup>2</sup>Turbidites Research Group, School of Earth and Environment, University of Leeds, LS2 9JT, Leeds, UK, e-mail: budai.soma@gmail.com

<sup>3</sup>Institute of Geography and Earth Sciences, Department of Palaeontology, ELTE Eötvös Loránd University, Pázmány Péter sétány 1/C, Budapest 1117, Hungary, e-mail: magyarjani90@gmail.com, e-mail: botfalvai.gabor@gmail.com

<sup>4</sup>ELKH-MTM-ELTE Research Group for Paleontology, Ludovika tér 2, H-1083 Budapest, Hungary




## THANK YOU FOR YOUR ATTENTION!


The research was supported by the János Bolyai Research Scholarship, the NKFIH PD 131557 and K131597 projects, the MBFSZ FKFO-11 project, the Hungarian Dinosaur Foundation, and the Romanian Ministry of Research, Innovation and Digitalization, CNCS–UEFISCDI grant PN-III-P4-ID-PCE-2020-2570, within PNCDI III.




# 14th Romanian Symposium of Palaeontology, București, Romania, 14-15 septembrie 2023

 UNIVERSITATEA BABEȘ-BOLYAI  
BABEȘ-BOLYAI TUDOMÁNYEGYETEM  
BABEȘ-BOLYAI UNIVERSITÄT  
BABEȘ-BOLYAI UNIVERSITY  
TRADITIO ET EXCELLENTIA

The 14th Romanian Symposium of Palaeontology,  
September 14-15, 2023

 SOCIETATEA PALEONTOLOGICĂ DIN ROMANIA

 DEPARTAMENTUL DE GEOLOGIE  
UNIVERSITATEA BABEȘ-BOLYAI

**Distribution of foraminifera and calcareous nannoplankton in the Upper Cretaceous and Paleogene of the Eastern Carpathians in response to local palaeoenvironmental conditions**

Raluca BINDIU-HAITONIC, Ramona BĂLC, Szabolcs Attila KÖVECSI, Daria COJOCARU, Petronela MĂZĂREANU, George GABOR, Zoltan CSIKI-SAVA, Sorin FILIPESCU



# Thank You!

We are thankful for the financial support of the POCU/993/6/13 Development of advanced and applied research skill in STEAM+Health logic postdoctoral research program (to SAK), of the SRG-UBB-32938 (to RBH), as well as of the internal UB project 10056/2022, and of a grant of the Ministry of Research, Innovation and Digitization, CNCS/CCCDIUE/FISCDI, project number PN-III-P4-ID-PCE-2020-2570, within PNCDI III.