

A C A D E M I A R O M Â N Ă

**INSTITUTUL DE SPEOLOGIE
“EMIL RACoviŢĂ”**

R A P O R T D E A C T I V I T A T E
pentru anul 2014

**PRESEDINTELE
CONSILIULUI ŢTIINŢIFIC**

Director, Dr. Ioan Povară

BUCUREŞTI, decembrie 2014

DOMENII DE ACTIVITATE

Biospeologie si Edafobiologie
Geospeologie si Carstologie
Geocronologie si Paleontologie
Ecologie si Protectia mediului carstic
Managementul vulnerabilitatii carstului

ANEXA 2

RESURSE UMANE

2.1. Doctorantură

În anul 2014, în Institutul de Speologie au activat un număr de **27 cercetători atestați, 5 ACS** dintre care **24 doctori și 5 doctoranzi** în faze diferite de realizare a tezei.

2.2. Conducători de doctorat: 1

Dr. O. T. Moldovan, CS I, conducător doctorat în cadrul Academiei Române

Teze doctorat coordonate în 2014

Laura Epure - *Diversitatea microorganismelor din mediul subteran și utilizarea lor în studiile paleoclimatice*. Academia Romana, susținută public în data de 7 noiembrie 2014.

Dragos Mantoiu – *Modele de distributie pentru populatiile de lilieci (Mammalia Chiroptera)*
Academia Romana

Silviu Bercea – *Evaluarea impactului antropic asupra unor componente biotice si abiotice ale domeniului subteran*. Academia Romana

ANEXA 3

FORMARE TINERI CERCETĂTORI

3.1. Teze doctorat aflate în diferite etape de susținere

Robu Marius – *Studiul tafonomic și inchnologic al asociației faunistice Cuaternar superioare din Peștera Urșilor de la Chișcău*. Academia Română – Filiala Cluj Napoca

Vlaicu Marius – *Relații morfogenetice între regiuni carstice situate diferit față de catena carpatică. Studiul de caz: bazinul hidrografic al Jiului*, Facultatea de Geografie, Universitatea București.

Terente Mihai – *Utilizarea semnalului izotopilor stabili din speleoteme în reconstituri paleoclimatice*. Facultatea de Geologie și Geofizică, Universitatea București

Mirea Ionuț Cornel – *Evoluția carstului din grupa centrală a Carpaților Meridionali în Cuaternar, pe baza depozitelor speleale*. Universitatea Babeș Bolyai, Facultatea de Știința și Ingineria Mediului, Cluj Napoca.

3.2. Burse, granturi și stagii postdoctorale în 2014

Băncilă, R.I. – *Grant postdoctoral SCIEX: Innovative modelling approaches as tools in conservation*; Institutul de Biologie Evolutivă și Studii de Mediu, Universitatea Zurich, Evetia (2013-2014)

Bancila, R.I. – Matrix population models for population conservation and management course (Montpellier, France)

Bancila, R.I. – Modelling patterns and dynamics of species occurrence course (Mallorca, Spain)

Iepure, S – *Molecular si confocal microscopy*. Stagiul postdoctoral la Museo Nacional de Ciencia Naturales, Madrid

Vereș, D – stagiul laborator pregătire eșantioane izotopice în cadrul Institut des Sciences de la Terre, Univ. din Grenoble

Vereș, D – stagiul laborator pregătire eșantioane izotopice în cadrul centrului de cercetare School of Geosciences, Univ. of South Florida, Tampa, SUA.

Vereș, D – stagiul laborator pregătire eșantioane chimice, fizice și sedimentologice în cadrul GFZ Helmholtz Research Centre Potsdam, Germania

3.3. Schimburi interacademice

Giurginca A. – *Cave invertebrates and microorganisms - their interactions, ecophysiological and morpho-functional adaptations*. Schimb interacademic în Cehia în perioada 11-17 august 2014 cu Institute of Soil Biology, Biology Centre Academy of Sciences of the Czech Republic.

Popa I. – *Cave invertebrates and microorganisms - their interactions, ecophysiological and morpho-functional adaptations*. Schimb interacademic în Cehia în perioada 11-17 august 2014 cu Institute of Soil Biology, Biology Centre Academy of Sciences of the Czech Republic.

Munteanu, C.M. – *Cave invertebrates and microorganisms - their interactions, ecophysiological and morpho-functional adaptations*. Institutul de Biologie a Solului, Academia Cehă.

Munteanu, C.M. – *Field investigations on typical Quaternary loess deposits in the Danube Basin*. Institutul de Geologie și Geofizică, Academia Chineză de Științe, Beijing

Hillebrand-Voiculescu A. – *Cave invertebrates and microorganisms - their interactions, ecophysiological and morpho-functional adaptations*. Schimb interacademic cu Institutul de Microbiologie al Academiei de Științe din Republica Cehia, Praga, Cehia.

Constantin Silviu – *Reconstrucții de paleomedii pe baza depozitelor speleale și lacustre din Polonia și România*. Schimb interacademic cu Institutul de Științe Geologice, Academia Polona de Științe

Moldovan Oana - *Reconstrucții de paleomedii pe baza depozitelor speleale și lacustre din Polonia și România*. Schimb interacademic cu Institutul de Științe Geologice, Academia Polona de Științe

INFRASTRUCTURĂ DE CERCETARE NOU ACHIZIȚIONATĂ / COMPETATĂ ÎN 2014

Biblioteca ISER. În cadrul schimbului internațional în Biblioteca ISER au intrat peste **200 periodice** de la diferite Muzee și Institute din țări ale Uniunii Europene precum și din țări din afara Uniunii Europene. Au fost primite din donații sau din schimbul internațional și un număr de 112 cărți.

Echipe de cercetare cu valori mai mari de 10000 Euro: –

REZULTATE OBTINUTE ÎN CERCETARE ÎN 2014

5.1. Lucrări științifice publicate în reviste de specialitate cotate ISI din străinătate

1. Anechitei-Deacu V., Timar-Gabor A., Fitzsimmons K.E., Veres D., Hambach U., 2014. – Multi-method luminescence investigations on quartz grains of different sizes extracted from a loess section in southeast Romania interbedding the Campanian Ignimbrite ash layer. *Geochronometria* **41(1)**: 1–14 (I.F. = 1.653)
2. Băncilă, R.I., Cogălniceanu, D., Plăiașu, R., Tudor, M., Cazacu, C., Hartel, T., 2014 – Comparative performance of incidence based species richness estimators in herpetofauna inventory. *Ecological Indicators* **45**: 219 – 226 (I.F. = 3.23)
3. Borda, D., Năstase-Bucur, R.M., Spînu, M., Uricariu, R. and Mulec, J., 2014 – Aerosolized microbes from organic rich materials: case study of bat guano from caves in Romania. *Journal of Cave and Karst Studies*, **76 (2)**: 114–126 (I.F. = 0.696).
4. Boop, L. M., Onac, B. P., Wynn, J. G. et al., 2014 – Groundwater geochemistry observations in littoral caves of Mallorca (western Mediterranean): implications for deposition of phreatic overgrowths on speleothems. *International Journal of Speleology*, **43(2)**: 193-203 (I.F. = 1.275)
5. Brad, T., Fekete, A., Sandor, M. and Purcarea, C., 2014 – Natural attenuation potential of selected hydrokarst systems in Carpathian Mountains (Romania). *Water Science and Technology: Water Supply*, DOI: 10.2166/ws.2014.092 (I.F.=0.505)
6. Buică, G., Băncilă, R.I., Tudor, M., Plăiașu, R. et al., 2014 – The injuries on tortoise shells' as a depository of past human impact. *Italian Journal of Zoology*, **21**: 287 - 297 (I.F. = 0.865)
7. Constantin, M., Fujisawa, K., Ishida, K., Higuchi, K., Vlaicu, M., Jurchescu, M.-J., 2014- Digital, automated and optical fiber systems used in displacement measurements of landslides in Romania. *Environmental Engineering and Management Journal*, **12**: 2427-2434. (I.F.= 1,258).
8. Constantin, S., Robu, M., Munteanu, C.-M., Petculescu, A., Vlaicu, M., Mirea, I., Kenesz, M., Dragusin, V., Hoffman, D., Anechitei, V., Timar-Gabor, A., Roban, R., Panaiotu, C.-G., 2014– Reconstructing the evolution of cave systems as a key to understanding the taphonomy of fossil accumulations: The case of Urșilor Cave (Western Carpathians, Romania). *Quaternary International*, **339 – 340**: 25 – 40 (I.F.= 2,128).
9. Constantin, S., 2014 – Fossil remains in karst and their role in reconstructing Quaternary paleoclimates and paleoenvironments. *Quaternary International*, **339**:1-3. (I.F.= 2,128)
10. Dragusin, V., Staubwasser, M., Hoffmann, DL., Ersek, V., Onac, BP., Veres, D., 2014– Constraining Holocene hydrological changes in the Carpathian–Balkan region using speleothem

$\delta^{18}\text{O}$ and pollen-based temperature reconstructions. *Climate of the Past* **10**: 1363–1380. (I.F.=**3.482**)

11. Epure, L., **Meleg, I.N., Munteanu, C.M.**, Roban, R.D., **Moldovan O.T.**, 2014 – Bacterial and Fungal Diversity of Quaternary Cave Sediment Deposits. *Geomicrobiology Journal*, **31**: 116-127. (I.F. = **1.804**)

12. Feurdean, A, Perşoiu, A., Stevens, T., Tanţău, I., Magyari, E., **Onac, B.P.**, Marković, S., Andrić, M., Connor, S., Fărcaş, S., Gałka, M., Gaudeny, T., Hoek, P., Kolaczek, P., Kunes, P., Lamentowicz, M., Marinova, E., Michczyńska, D., Perşoiu, I., Stancikaite, M., Sumegi, P., Svensson, A., **Tămaş, T.**, Timar, A., Tonkov, S., Toth, M., Veski, S., Willis, K., Zernitskaya, V., 2014 – Climate variability and associated vegetation response throughout Central and Eastern Europe (CEE) between 60 and 8 ka. *Quaternary Science Reviews*, DOI: 10.1016/j.quascirev.2014.06.003 (I.F.=**4,571**).

13. Ganzert L., Schirmack J., Alawi M., Mangelsdorf K., Sand W., **Hillebrand-Voiculescu A.**, Wagner D., 2014 – Methanosarcina spelaei sp. nov., a methanogenic archaeon isolated from a floating biofilm of a subsurface sulphurous lake. *International Journal of Systematic and Evolutionary Microbiology*, **64**: 3478–3484 (I.F. = **2.798**)

14. Hahn A, Kliem P, Oehlerich M, Ohlendorf C, Zolitschka B, **Vereş, D.**, the PASADO Science Team, 2014 – Elemental composition of the Laguna Potrok Aike sediment sequence reveals paleoclimatic changes over the past 51 ka in southern Patagonia, Argentina. *Journal of Paleolimnology*, **52**: 349-366 (I.F. = **2.139**).

15. Kumaresan D., Wischer D., Stephenson J., **Hillebrand-Voiculescu A.**, Murrell J.C., 2014 – Microbiology of Movile Cave—A Chemolithoautotrophic Ecosystem. *Geomicrobiology Journal*, **31(3)**: 186-193 (I.F.= **1.804**).

16. Matache, M. L., **Marin, C.**, Rozyłowicz, L., and **Tudorache, A.**, 2014 – Plants accumulating heavy metals in the Danube River wetlands. *Journal of Environmental Health Science & Engineering*; **11**:39; doi: 10.1186/2052-336X-11-39 (I.F.=**1,01**).

17. **Meleg, I.N.**, Naparus, M., Fiers, F., Meleg, I.H., **Vlaicu, M.**, **Moldovan, O.T.**, 2014. – The relationships between land cover, climate and cave copepod spatial distribution and suitability along the Carpathians. *Environmental Conservation*, **41**: 206-216 (I.F. = **2.320**).

18. Mitrofan, H., **Marin, C.**, **Tudorache, A.**, and Vişan, M., 2014 – Diagnosing Non-Meteorically Induced Variations in the Chemistry of Saline Springs of the Vrancea Seismic Area (Romania). *Pure and Applied Geophysics*; **171(9)**:2315 – 2338 (I.F. = **1,854**)

19. Mitrofan, H. **Marin, C. Povara, I.**, 2014 – Possible conduit-matrix water exchange signatures outlined at a karst spring. *Groundwater*, **57** doi: 10.1111/gwat.12292. (I.F.=**1.953**)

20. **Nitzu, E., Nae, A., Bancila, R.I., Popa, I., Giurginca, A. & Plaiasu, R.**, 2014 – Scree habitats: ecological function, species conservation and spatial-temporal variation in the arthropod community. *Systematics and Biodiversity*, **12(1)**: 65 – 75 (I.F. = **2.153**)

21. **Onac, B. P.**, Fornos, J. J., Merino, A. et al., 2014 – Linking mineral deposits to speleogenetic processes in Cova des Pas de Vallgornera (Mallorca, Spain). *International Journal of Speleology*, **43(2)**: 143-157 (I.F.= **1.275**).

22. **Onac, B. P.**, Forray, F. L.; Wynn, J. G. et al., 2014 – Guano-derived delta C-13-based paleo-hydroclimate record from Gaura cu Musca Cave, SW Romania. *Environmental Earth Sciences*, **71(9)**: 4061-4069 (I.F. = **1.572**)

23. Puscas, C.M., Kristaly, F., Stremtan, C.C., **Onac, B.P.** & Effenberger, H.S. - Stability of cave phosphates: case study from Liliecilor Cave (Trascau Mountains, Romania). *J. Min. Geochem.* **191(2)**: 157-168 (I.F.=**0.755**).

24. Riechelmann, S., Schroder-Ritzrau, A., Wassenburg, J.A., Schreuer, J., Richter, D.K., Riechelmann, D.F.C., **Terente, M., Constantin, S.**, Mangini, A., Immenhauser, A., 2014 – Physicochemical characteristics of drip waters: Influence on mineralogy and crystal morphology of recent cave carbonate precipitates, *Geochimica et Cosmochimica Acta* **145** :13–29 (I.F.=**4.798**)

25. Sauro, F., De Waele, Jo, **Onac, B. P.** et al., 2014 – Hypogenic speleogenesis in quartzite: The case of Corona 'e Sa Craba Cave (SW Sardinia, Italy). *Geomorphology* , **211**:77-88 (I.F.=**2.577**).

26. Schirmack J., Mangelsdorf K., Ganzert L., Sand W., **Hillebrand-Voiculescu A.**, Wagner D., 2014 – Methanobacterium movilense sp. nov., a hydrogenotrophic, secondary-alcohol-utilizing

methanogen from the anoxic sediment of a subsurface lake. *International Journal of Systematic and Evolutionary Microbiology*, **64**: 522–527 (I.F. = 2.798).

27. Webb, D., **Robu, M., Moldovan, O.T., Constantin, S.**, Tomus, B., Neag, I., 2014 – Ancient human footprints in Ciur-Izbuc Cave, Romania. *American Journal of Physical Anthropology*, **155**: 128-135 (I.F. = 2.514)

28. Wischer D., Kumaresan D., Johnston A., El Khawand M., Stephenson J., **Hillebrand-Voiculescu A.M.** et al., 2014– Bacterial metabolism of methylated amines and identification of novel methylotrophs in Movile Cave, *ISME J.*, doi:10.1038/ismej.2014.102 (I.F.=9.267)

Total I.F. = 65.182

5.2. Lucrări științifice publicate în reviste ISI România

1. **Tămaș, T.**, Miheș, O., Giurgiu, A., 2014 – Mineralogy of bat guano deposits from Huda lui Păpară Cave (Trascău Mountains, Romania). *Carpathian Journal of Earth and Environmental Sciences*, **9 (3)**: 25 – 32. (I.F.= 0,727)

2. Tanțău, I., Geantă, A., Feurdean, A., **Tămaș, T.**, 2014. – Holocene vegetation history from a high altitude site in Rodna Mountains (Romania). *Carpathian Journal of Earth and Environmental Sciences*, **9 (2)**: 23 – 30. (I.F. =0,727)

Total I.F. = 1.454

5.3. Lucrări științifice publicate în reviste de specialitate indexate BDI

1. **Hillebrand-Voiculescu, A., M.**, Rusu, A., Ițcuș, C., Perșoiu, A., **Brad, T.**, Pascu, M., D., Ardelean, I., **Onac, B., P.**, and Purcărea, C., 2013 - Bacterial 16S-rRNA gene clone library from recent ice stalagmites of Scărișoara Cave, *Romanian Journal of Biochemistry*, **50(2)**: 109-118 (nu a fost raportată în 2013).

2. **Iepure, S., Marin, C.**, Fekete, Al., **Rajka, G., Brad, T.**, Samsudean, C., 2014 - Ecological assessment of water quality in relation to hydrogeology in a shallow urban aquifer: Somesul Mic River aquifer (North-Western, Romania). *Geophysical Research Abstracts*, **Vol. 16**, EGU2014-14727, 2014, EGU General Assembly 2014.

3. **Nae, A.**, 2013 – *Carpathonesticus orolesi n. sp.* from the Carpathians (Araneae, Nesticidae). *Travaux de L'Institut de Speologie "Emile Racovitza* **52**: 27-32 (nu a fost raportată în 2013)..

4. **Popa, I.**, 2013 – First record of Coloburela Linnaniemii (Denis, 1926) (Hexapoda: Collembola) in Romania. *Travaux de L'Institut de Speologie "Emile Racovitza* **52**: 33-36 (nu a fost raportată în 2013).

5. **Povară, I.**, Conovici M – Tectono- karst depressions in the central – western area of the Mehedinți Mountains (SW Romania). *Travaux de L'Institut de Speologie "Emile Racovitza* **52**: 37-49 (nu a fost raportată în 2013).

6. **Tabacaru, I., Giurginca, A.**, 2013 – Cavernicolous Oniscidea of Romania. *Travaux de L'Institut de Speologie "Emile Racovitza* **52**: 3-26 (nu a fost raportată în 2013)..

7. Tuffreau, A., Dobrescu, R., **Petculescu, A.**, Știucă, E., Balescu, S., Lanoe, F., Wismer, M, 2014–*La grotte La Adam: un repaire de carnivores visité par les chasseurs du Paléolithique*, In : J.-P. Saint-Martin (Ed.), pp. 74-87, Amanda Edit, Bucarest, 2013 (nu a fost raportată în 2013)

5.4. Lucrări aflate sub tipar

1. Botnaru, V., **Petculescu, A., Gheorghiu, V.**, 2015 – Moldova, 10 pp, In: ENCYCLOPÆDIA BIOSPEOLOGICA Vol. I, Europe, Ed. by C. JUBERTHIE and V. DECU. Second Edition, Ed. Museum of Natural History in Paris (In press/2015)

2. Bușmachi, G., **Popa, I.**, and Weiner, W.M. – Collembola (Hexapoda) from South-Eastern Carpathians protected areas, with description of *Hymenaphorura ioni* sp. nov. *Annales Zoologici*.

3. **Decu, V., Juberthie, C., Moldovan, O.T., Gheorghiu, V.,** 2015 – Roumanie, 72 pp , In: ENCYCLOPÆDIA BIOSPEOLOGICA Vol. I, Europe, Ed. by C. JUBERTHIE and V. DECU. Second Edition, Ed. Museum of Natural History in Paris.
4. **Decu, V., Gheorghiu, V.,** 2015 – Turkey the European, 12 pp, In: ENCYCLOPÆDIA BIOSPEOLOGICA Vol. I, Europe, Ed. by C. JUBERTHIE and V. DECU. Second Edition, Ed. Museum of Natural History in Paris
5. Epure, L., **Borda, D.** – Groundwater contamination and the relationship between water chemistry and biotic components in a karst system (Bihor Mountains, Romania). *Travaux de L'Institut de Speologie "Emile Racovitza* **53**
6. Feurdean A., Marinova E., Nielsen A., Liakka J., **Veres D.,** Hutchinson S., Braun M., Timar-Gabor A., Astalos C., Mosbrugger V., Hickler T. – Forest steppe or temperate forest? On the origin of the forest steppe with exceptional grassland diversity in Transylvania (CE Europe). *Journal of Biogeography* (**F.I.= 4.969**).
7. **Gheorghiu V.,** Murariu D. – Restaurarea unei mari populatii de chiroptere prin reconstructia ecologica a pesterii de la Baia de Fier – jud. Gorj, Romania. *Ocotirea Naturii și a Mediului Înconjurator*, **18 pp**, București
8. **Giurginca, A., Munteanu, C.-M. & Vlaicu, M.** – An inventory of the caves of Romania inhabited by Oniscidea. *Travaux de L'Institut de Speologie "Emile Racovitza* **53**.
9. Hartel T, Sos T, Popescu V, **Băncilă RI,** Cogălniceanu D, Rozyłowic L – Amphibian conservation in traditional cultural landscapes: the case of Central Romania. *North-Western Journal of Zoology* (IF = 0.7) (in press).
10. **Hillebrand-Voiculescu AM,** Ițcuș C, Ardelean I, Pascu DM, Perșoiu A, Rusu A, Brad T, Popa E, Onac BP, Purcarea C. – Searching for Cold-Adapted Microorganisms in the Underground Glacier of Scărișoara Ice Cave, Romania, *Acta Carsologica* (IF= 0.71)
11. Magyari E.K., **Veres D.,** Wennrich V., Wagner B., Braun M., Karátson D., Pál Z., Ferenczy Gy., St-Onge G., Rethemeyer J., Francois J.-P., von Reumont F., Schäbitz F. – Vegetation and environmental responses to climate forcing during the last glacial maximum and deglaciation in the East Carpathians: attenuated response to maximum cooling and increased biomass burning. *Quaternary Science Reviews* (**F.I = 4.571**) (acceptat)
12. Marković S.B., Kukla G.J., Stevens T., Hambach U., O'Hara Dhand K., Smalley I., Gibbard P., Buggle B., Zech M., Újvári G., Sümegei P., **Veres D.,** Timar-Gabor A., Kovács J., Svirčev Z., Vasiljević D.A., Zöller L. – The Danube loess stratigraphy – new steps towards a European-wide loess stratigraphic model. *Earth-Science Reviews* (**F.I.= 7.135**)
13. Manu, M, Onete M, **Băncilă, RI** – The effect of heavy metals on mite communities (Acari – Gamasina) from urban parks – Bucharest, Romania. *Environmental Engineering and Management Journal* (IF = 1.258) (in press).
14. **Povară, I.,** Conovici, M., **Munteanu, C.M., Marin, C. & Ioniță, E.D.** – Karst flow systems within the Cerna Graben (Southern Carpathians, Romania). *Carpathian Journal of Earth and Environmental Sciences*
15. Recasens, C., Ariztegui, D., Maidana, N. I., Zolitschka, B., **Vereș, D.** & Pasado Science Team, – Diatoms as indicators of hydrological and climatic changes in Laguna Potrok Aike (Patagonia) since the Late Pleistocene. *Palaeogeography, Palaeoclimatology, Palaeoecology*.
16. **Tabacaru, I., Giurginca, A.** Identification key to the cavernicolous Oniscidea of Romania. *Travaux de L'Institut de Speologie "Emile Racovitza* **53**
17. Trandafir O., Timar-Gabor A., Schmidt C., **Veres D.,** Anghelinu M., Hambach U., Simon S.: OSL dating of fine and coarse quartz from a Palaeolithic sequence on the Bistrița Valley (northeastern Romania). *Quaternary Geochronology* (**F.I. = 2.476**)

5.6. Cărți publicate în țară

Meleg, I.N., Axinte I. (eds.), 2014 – EuroSpeleo Forum, 9th Edition, 22-24 August, Baile Herculane, Romania, *Book of abstracts*. Oradea, Belvedere Press, 60 pp.

5.7. Citări ale lucrărilor anterioare în 2014

Tămaș, T., Onac, B.P., Bojar, A.-V, 2005 – Lateglacial - Middle Holocene stable isotope records in two coeval stalagmites from the Bihor Mountains, NW Romania. *Geological Quarterly*, **49 (2)**: 185 – 194

- Tanțău, I., Feurdean, A., de Beaulieu, J-L., Reille, M., Fărcaș, S. (2014). Vegetation sensitivity to climate changes and human impact in the Harghita Mountains (Eastern Romanian Carpathians) over the past 15000 years. *Journ. of Quatern Science*, 29(2): 141–152.
- Bojar, A-V. Guja, O., Stefanescu, D. (2014). Vermiculation patterns in Coiba Mare Cave, Bihor Mountains, Romania. *Quaternary International*, DOI: 10.1016/j.quaint.2014.07.028
- C. Bonsall, M.G. Macklin, A. Boroneant, C. Pickard, L. Bartosiewicz, G.T. Cook, T.F.G. Higham (2014). Holocene climate change and prehistoric settlement in the lower Danube valley. *Quaternary International*, <http://dx.doi.org/10.1016/j.quaint.2014.09.031>
- Feurdean, A, Perșoiu, A., Stevens, T., Tanțău, I., Magyari, E., Onac, BP., Marković, S., Andrić, M., Connor, S., Fărcaș, S., Galka, M., Gaudeny, T., Hoek, P., Kolaczek, P., Kunes, P., Lamentowicz, M., Marinova, E., Michczyńska, D., Perșoiu, I., Stancikaite, M., Sumegi, P., Svensson, A., **Tămaș, T.**, Timar, A., Tonkov, S., Toth, M., Veski, S., Willis, K., Zernitskaya, V. (2014). Climate variability and associated vegetation response throughout Central and Eastern Europe (CEE) between 60 and 8 ka. *Quaternary Science Reviews*, DOI: 10.1016/j.quascirev.2014.06.003

Feurdean, A., Klotz, S., Mosbrugger, V., **Tămaș, T.**, Wohlfarth, B., 2008 – Lateglacial climate development in NW Romania - comparative results from three quantitative pollen based methods. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 265, 121-133

- Sanchi, L., Menot, G., Bard, E. (2014). Insights into continental temperatures in the northwestern Black Sea area during the Last Glacial period using branched tetraether lipids. *Quaternary Science Reviews*, 84, 98–108
- Galka, M., Tobolski, K., Bubak, I. (2014). Late Glacial and Early Holocene lake level fluctuations in NE Poland tracked by macro-fossil, pollen and diatom records. *Quaternary International*, DOI: 10.1016/j.quaint.2014.03.009
- Magyari, E.K., Jakab, G., Bálint, M., Kern, Z., Buczkó, K., Braun, M. Rapid vegetation response to Lateglacial and early Holocene climatic fluctuation in the South Carpathian Mountains (Romania). *Quaternary Science Reviews*, 35, 116–130.
- Sanchi, L., Menot, G., Bard, E. (2014). Environmental controls on paleo-pH at mid-latitudes: A case study from Central and Eastern Europe. *Palaeogeography, Palaeoclimatology, Palaeoecology*, DOI: 10.1016/j.palaeo.2014.10.007

Johnson, V. E., McDermott, F., **Tămaș, T.**, 2010 – A radiocarbon dated bat guano deposit from N.W. Romania: Implications for the timing of the Little Ice Age and Medieval Climate Anomaly. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 291, 3-4, 217-227

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3. Bücs, D., **Borda, D.,** Jéré, C. – Cave access and bat protection in Romania: Legislation and guidelines, XIIIth European Bat Research Symposium, 1-5 Sept. 2014, Siebenik, Croatia.
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14. Itcus, C., Pascu, M. D., **Hillebrand-Voiculescu, A. M., Brad, T.,** Persoiu, A., Purcarea, C.– Molecular analysis of bacterial diversity from Scărisoara ice cave, International Symposium „Young Researchers in BioSciences”, July 23-27, 2014, Cluj-Napoca, Romania
15. Itcus, C., **Hillebrand-Voiculescu, A. M., Brad, T.,** Persoiu, A., Purcarea, C. – Biodiversity from perennial underground ice caves sediments, Simpozionul National „Criosfera 2014”, 15-18 mai 2014, Bucuresti, Romania.
16. Itcus, C., **Hillebrand-Voiculescu, A. M.,** Pascu, M. D., **Brad, T.,** Persoiu, A., Purcarea, C. – Scarisoara ice cave microcosm, A XXXII-a Sesiune Anuală a Societății Române de Biologie Celulară (SRBC), 4-7 iunie 2014, Targu Mures, Romania

17. Kumaresan, D., Wischer, D., Stephenson, J., **Hillebrand-Voiculescu, A.**, Murrell, JC – Genomic and metagenomic insights into bacterial one-carbon metabolism in Movile Cave (Romania), a chemolithoautotrophic ecosystem – *From Single Molecules to Microbial Ecosystem Functioning. Gordon Conference*, August 9-10, 2014 la Mount Holyoke College, South Hadley, MA, SUA.
18. **Marin, C.** – Aspecte calitative ale apelor subterane din municipiul București. AL II-LEA Workshop de Hidrogeologie Urbană, Universitatea Tehnică de Construcții București. Centrul de Cercetare Ingineria Apelor Subterane, București, 17 ianuarie 2014
19. **Meleg I.N.**, Lascu, V.T., Thies, J.C., Vidal, O., Zacharias, S. – Common efforts to address cave and karst protection across Europe. *9th EuroSpeleo Forum, Where the Carpathians meet the Danube, 3rd EuroSpeleo Protection Symposium*, August 22-24, 2014, Băile Herculane, p. 39.
20. **Mirea, I.C., Petculescu, A., Robu, M., Kenesz, M. & Munteanu, C.M.** – Date preliminare privind fauna de mamifere din Peștera Muierilor, Galeria Urșilor (Pleistocen superior). Simpozionul “120 de ani de la întemeierea Muzeului Gorjului”, Târgu-Jiu.
21. **Moldovan, O.T.** – The importance of time scale in subterranean habitats monitoring. 22st International Conference on Subterranean Biology, 31 August- 5 September 2014, Juriquilla, Querétaro, México
22. **Moldovan O., Nastase-Bucur, R., Borda D.** – Realizari si perspective in cercetarea biospeologica Clujeana. Zilele Academice Clujene Iunie 2014.
23. **Munteanu, C.-M., Giurginca, A & Vlaicu, M.** – Potentially toxic metals within the Zaton-Bulba karst system (Mehedinti Plateau, Romania). *XVI Serbian Geological Congress “Optimal Research and Sustainable Usage of the Geological Resources”*, Donji Milanovac, 22-25. V. 2014.
24. **Nae, A.** – Comunități de aranee din mediul subteran (profund si superficial) din România. *Ediția a XLV-a a sesiunii naționale de comunicări științifice a Muzeului Județean Argeș*, Cumpăna, 24 – 26 septembrie 2014.
25. **Năstase-Bucur, R., Borda, D.** – Researches and management recommendations for long-term conservation of a Romanian Cave, 22nd International Conference on Subterranean Biology, 31 Aug. - 5 Sept., 2014 Juriquilla, Querétaro, Mexic.
26. Pascu, M. D., Itcus, C., Ardelean, I., Cîrnu, M., **Hillebrand-Voiculescu, A. M., Brad T., Persoiu A., Purcarea C.** – Metabolism activity and diversity from Scărișoara ice cave, International Symposium „Young Researchers in BioSciences”, July 23-27, 2014, Cluj-Napoca, Romania;
27. Pascu, M. D., Itcus, C., Ardelean, I., **Brad, T., Persoiu, A., Purcarea, C.** – What phototrophs live in ice caves, Simpozionul National „Criosfera 2014”, 15-18 mai 2014, Bucuresti, Romania.
28. Pascu, D., Itcus, C., Cîrnu, M., **Hillebrand-Voiculescu, A. M., Brad, T., Persoiu A., Ardelean I., Purcarea C.** – Phototrophs from Scarisoara cave ice block, A XXXII-a Sesiune Anuală a Societății Române de Biologie Celulară (SRBC), 4-7 iunie 2014, Targu Mures, Romania.
29. **Plăiașu R., Băncilă R.I.** – Higher levels of fluctuating asymmetry in harvestmen cave populations compared to surface populations”. *Congresul European de Arahnologie. Torino, Italia.*
30. **Povară, I., Munteanu, C.M. & Marin, C.** – Băile Herculane karst area: morphological, hydrogeological and mineralogical features. *9th EuroSpeleo Forum - “Where the Carpathians Meet the Danube”*, Băile Herculane.
31. **Robu, M., Petculescu, A., Mirea, I-C.** – Approaching caves and fossils as karst archives: Urșilor Cave, Ciur-Izbuc and Muierilor Cave. *9th EuroSpeleo Forum - “Where the Carpathians Meet the Danube”*, Băile Herculane.
32. Sandor, M., S., **Brad, T., Carpa, R., Maxim, A.** – Short term changes of soil biochemical parameters under organic and mineral soil fertilization in a potato field, First Global Soil Biodiversity Conference, December 2-5, 2014, Dijon, France.
33. Staubwasser, M, **Drăgușin, V., Assonov, S., Hoffmann, D L., Ersek, V, Onac B.P.&Veres, D.** – A speleothem perspective on millennial-scale climate change in south-eastern Europe during the last glacial. *Workshopul Late Pleistocene and Holocene climatic variability in the Carpathian-Balkan region*, Cluj-Napoca, 6-9.11.2014.
34. Sustr, V., **Giurginca, A.** – Autofluorescence of the body surface of the cave isopod *Mesoniscus graniger*. *9th International Symposium on Terrestrial Isopod Biology, Poitiers, 26-30.06. 2014.*

- 35. Veres, D.** – From Greenland to the Levantine: developing a tephra based framework for palaeoclimate correlation in the North Atlantic and Europe over the last 60,000 years. INTIMATE Tephra Workshop, Pisa, April 25-26, 2014.
- 36. Trandafir, O., Schmidt, C., Timar-Gabor, A., Anghelinu, M., Vereş, D., Hambach, U.** – OSL dating of silt-sized and sand-sized quartz from an Upper Pleistocene Archaeological sequence on the Bistrița Valley. *14th International Conference on Luminescence and Electron Spin Resonance Dating*, 11-14 July 2014, Montreal, Canada;
- 37. Vereş, D., Magyari, E., St-Onge, G., Wennrich, V., Braun, M., Karatson, D., Bormann, M. and Schabitz, F.** – A high-resolution Early Holocene-late MIS 3 environmental rock- and palaeomagnetic record from Lake Sf. Ana, Carpathian Mts, Romania. *2nd Workshop on Regional Climate Dynamics: Late Pleistocene and Holocene climatic variability in the Carpathian - Balkan region (CBW2014)*, Cluj-Napoca, Romania, 6-9 November 2014 .
- 38. Vlaicu, M., Szodoray-Parádi, F., Dragu, A., Plăiașu, R., Jere, C., Munteanu, C.M., Bücs, S. & Goran, C.** – Monitoring the conservation status of cave habitat and species of community interest in Romania under Article 17 of the Habitats Directive. 9th EuroSpeleo Forum - “Where the Carpathians Meet the Danube”, Băile Herculane.

ANEXA 6

REALIZĂRI EXCELENTE OBȚINUTE ÎN ANUL 2014 (CCA 3 REALIZĂRI): LUCRĂRI ȘTIINȚIFICE PUBLICATE ÎN REVISTE CU FACTOR DE IMPACT RIDICAT, ALTE REALIZĂRI PE CERE LE CONSIDERAȚI EXCELENTE

1. Nitzu, E., Nae, A., Bancila, R.I., Popa, I., Giurginca, A. & Plaiasu, R., 2014 – Scree habitats: ecological function, species conservation and spatial-temporal variation in the arthropod community. *Systematics and Biodiversity*, **12(1)**: 65 – 75 (I.F. = 2.153).
2. Webb, D., Robu, M., Moldovan, O.T., Constantin, S., Tomus, B., Neag, I., 2014 – Ancient human footprints in Ciur-Izbuc Cave, Romania. *American Journal of Physical Anthropology*, **155**: 128-135 (I.F. = 2.514)

ANEXA 7

PREMII INTERNAȚIONALE / NAȚIONALE (ALE ACADEMIEI ROMÂNE) OBȚINUTE DE CERCETĂTORII ACADEMIEI ROMÂNE (AUTORI, LUCRĂRI PREMIATE)

1. *Premiul Gheorghe Munteanu Murgoci* pentru lucrarea
Povară, Ioan, 2012 – Valea Cernei. Morfologie, hidrologie, ape termominerale.
Editura AGIR, 304 pg, ISBN 978-973-720-444-8.

COOPERĂRI ȘTIINȚIFICE NAȚIONALE ȘI INTERNAȚIONALE, INCLUSIV ÎN PROIECTE (CU INDICAREA NUMĂRULUI DE PROIECT ȘI A PARTENERILOR). OASPEȚI DIN STRĂINĂTATE

8.1. Cooperări științifice naționale

Muzeul Național de Istorie Naturală “Gr. Antipa”

Istituto de Biologie Bucuresti

Ministerul Mediului și Schimbărilor Climatice

ICAS Bucuresti

Academia de Stiinte Agronomice si Silvice

Facultatea de Biologie, Univ. Babes-Bolyai Cluj-Napoca

Facultatea de Geografie, Univ. din Suceava

8.2. Cooperări științifice internaționale

Dr. V. Sustr - *Instituto de Biologie a Solului* (Academia Cehă de Științe).

Dr. K. Tajovsky - *Instituto de Biologie a Solului* (Academia Cehă de Științe).

Prof. Dr. Božidar Ćurčić. *Instituto de Zoologie, Facultatea de Biologie a Universității Belgrad.*

Dr. Ivo Karaman, *Facultatea de Științe, Departamentul de Biologie și Ecologie, Novi Sad.*

Dr. Helmut Schmalfluss, *Muzeul de Științe ale Naturii, Stuttgart.*

Dr. Peter Cuchta, *Instituto de Biologie a Solului din Ceske Budejovice, Academia de Științe a Republicii Cehe* (schimb interacademic 2013-2016).

Drd. Francesco Ballarin, *Institute of Zoology, Chinese Academy of Sciences (IOZCAS), Museo Civico di Storia Naturale di Verona, Lungadige Porta Vittoria, 91-37129 - Verona, Italy*

Drd. Zhao Zhe - *Institute of Zoology, Chinese Academy of Sciences (IOZCAS)*

Karst Research Institute Postojna,

Skocjan Cave Administration

Slovakia: Slovak Cave Administration

Department of Molecular Cell Physiology, Faculty of Earth and Life Sciences, Vrije Universiteit Amsterdam, The Netherlands

Courant Research Center Geobiology, University of Göttingen, Göttingen, Germany

Department of Biology (Group for Zoology and Speleobiology, University of Ljubljana, Biotechnical Faculty), Ljubljana, Slovenia.

Magyari, Hungarian Natural History Museum

Universitatea din Koln, Germania

Universitatea din Bremen, Germania

Universitatea din Bergen, Norvegia

Comisariatul pentru Energie Atomica (CEA), Franta (Proiect FreEem, Contract C04-8)

Instituto de Geologie, Academia Polona, Varsovia

dr. John Hellstrom (datari ICPMS), *Universitatea din Melbourne, Australia*

Instituto Geologic al Academiei Bulgare de Științe

Instituto Belgian de Științele Naturii

Universitatea Insulelor Baleare din Palma de Mallorca

Instituto de Biologie Evoluționară și Studii de Mediu, Universitatea Zurich, Elveția

Universitatea de Heidelberg

Universitatea Uppsala, Departamentul de Ecologie și Genetică

8.3. Colaborări în cadrul unor contracte (nr. contract și parteneri)

Contract 48 / 2012-2015, în cadrul programului *Parteneriate în domeniile prioritare (PN II) – Reziliența sistemelor hidrotermale față de perturbări antropice și naturale. Studiu de caz: zăcământul termomineral sulfuros de la Băile Herculane.*

- Institutul de Biologie București

CAVEMONITOR 17SEE/2014-2017 - *Monitoring human impact in show caves- a pilot project on monitoring protocols and remediation techniques to be implemented in Romanian show caves.*

- Universitatea din Bergen, Norvegia
- Filiala Cluj Napoca, Academia Română
- Universitatea Babeș Bolyai, Facultatea de Geologie

Contract IFA-CEA-C4-08/2014-2016 – *Teleconexiuni în timpul schimbărilor climatice între Europa de Vest și de Est pe baza arhivelor climatice din speleoteme contemporane din timpul ultimului interglaciar din Franța și România (FREem)*

- CEA-CNRS-UVSQ, coordonator dr. Dominique Blamart, Laboratoire des Sciences du Climat et de l'Environnement, Gif-sur-Yvette, Franța.

Contract 2603 / 2012-2015 – *Monitorizarea stării de conservare a peșterilor și speciilor de lilieci de interes comunitar din România.*

- A.S. Exploratorii Reșița
- Asociația pentru Protecția Liliiecilor din România

8.4. Contracte obținute sau aflate în derulare în anul 2014

Contract Nr. 17 SEE/2014-2017 (Grant EEA-JRP-RO-NO-2013-1-0259)

Director de proiect: Dr. Silviu Constantin

Titlul contractului: Monitoring human impact in show caves - a pilot project on monitoring protocols and remediation techniques to be implemented in Romanian show caves (CAVEMONITOR)

Contract IFA-CEA-C4-08/2014-2016

Director de proiect: Dr. Silviu Constantin

Titlul contractului: Teleconexiuni în timpul schimbărilor climatice între Europa de Vest și de Est pe baza arhivelor climatice din speleoteme contemporane din timpul ultimului interglaciar din Franța și România (FREem)

Contract 2603 / 2012-2015

Titlul contractului: Monitorizarea stării de conservare a peșterilor și speciilor de lilieci de interes comunitar din România.

Responsabil proiect ISER: Drd. Marius Vlaicu

Contract Nr. 48/2012 (Contract multianual PN II, Parteneriate in domeniile prioritare – Proiecte Colaborative de Cercetare Aplicativă)

Director de proiect: Dr. Constantin Marin

Titlul contractului: Reziliența sistemelor hidrotermale față de perturbări antropice și naturale. Studiu de caz: Zăcământul termomineral sulfuros de la Băile Herculane (Resiltherm)

Contract cu C.J.Bistrita-Nasaud - Sistem de management eficient al sitului de importanță comunitară și ariei protejate de interes național Peștera Tăușoare.

- **LOT I contract nr. 2718/2013** Servicii de cercetare pentru descrierea mediului fizic în Peștera Tăușoare - Descrierea mediului fizic, suprateran și cavernicol, inclusiv cartarea peșterii, și hidrologia și climatul peșterii.

- **LOT II contract nr. 4743/2013-2014** Studii privind descrierea mediului antropic, descrierea

mediului biotic, cartarea și descrierea habitatelor; descrierea florei și faunei pe amplasament; studiul relațiilor specifice dintre populațiile de chiroptere din sit și ecosisteme; evaluarea stării de conservare a speciilor protejate; realizarea bazei de date, stabilire măsuri de conservare, metodologie de monitorizare.

Responsabil contract: Dr. Alexandru Petculescu

PN-II-ID-PCE-2012-4-0530/ 2013-2016 *Millennial-scale geochemical records of anthropogenic impact and natural climate change in the Romanian Carpathians.*

Responsabil de contract : Dr. Daniel Vereș

Contract Nr. 1157/09.07/2014 *Analiza chimică a conținutului de fluoresceină utilizată în lucrările de marcare a apei subterane.* Beneficiar: S.C. Carpathian Springs S.A. Vatra Dornei.

Responsabil de proiect : Dr. Constantin Marin

Contract 1612/4.06.2014: *Studiul de sectorizare/clasificare a Pesterii din Peretele Dirninii.* Beneficiar: Asociația Clubul de Turism Montan Ochiul Muntelui

Responsabil de contract : Dr. Oana Teodora Moldovan

Grant COST Action ES0907 pentru organizarea Scolii de Vara – *2nd an INTIMATE example research-training school and workshop*, Baile Tusnad, Romania, 30 mai – 5 iunie 2014.

Director grant: Dr. Daniel Vereș

Grant pentru Tineri Cercetatori GTC_34029/2013-2014 asociati ai Universitatii Babes-Bolyai *Luminescence and tephrochronological dating of sedimentary deposits (last 100 ka) from Transylvania and Buzau Valley, Romania,*

Director grant: Dr. Daniel Vereș

8.5. Oaspeți din străinătate

Dr. Miloslav Devetter, Dr. Vladimir Sustr, Dl. Jerhot Josef, Institutul de Biologie a Solului din Ceske Budejowice, Academia de Științe a Republicii Cehe. Perioada vizitei: 06-13.09.2014

Drd. Zhao Zhe - Institute of Zoology, Chinese Academy of Sciences (IOZCAS)

Dr. Alena Novakova, Inst. de Microbiologie al Academiei de Științe din Rep. Cehia

Sune Rasmussen, Universitatea din Copenhaga, Danemarca

Simon Blockley, Universitatea Royal Holloway, Marea Britanie

Richard Telford, Universitatea din Bergen, Norvegia

Magyari Eniko, Universitatea Eotvos-Lorand, Ungaria

Christine Lane, Universitatea din Manchester, Marea Britanie

Walter Finsinger, Universitatea din Montpellier, Franta

Norbert Kuhl, Universitatea din Bonn, Germania

Ulrich Hambach, Universitatea din Bayreuth, Germania

Achim Brauer, GFZ Centrum Potsdam, Germania

Brian Bradermann, GFZ Centrum Potsdam, Germania

Aritina Haliuc, GFZ Centrum Potsdam, Germania

dr. Krzysztina Szeroczynska, Institutul de Geologie, Academia Polona, Varsovia

dr. Helena Hercman, Institutul de Geologie, Academia Polona, Varsovia

dr. Michal Gasiowski, Institutul de Geologie, Academia Polona, Varsovia

prof. Stein-Erik Lauritzen, Universitatea din Bergen, Norvegia

prof. Rannveig Øvrevik Skoglund, Universitatea din Bergen, Norvegia

Dr. Chris A. Robinson, Department of Biological Sciences, Bronx Community College, SUA.

Dr. Sabrina Curran, Visiting Assistant Professor, Department of Sociology and Anthropology Ohio University, SUA.

Dr. Claire Terhune, University of Arkansas, Dep. Anthropology, SUA

Prof. Ding Zhongli, Prof. Guo Zhengtang, Prof. Hao Qingzhen, Prof. Asist. Shen Wei și D-na WU Yan, Academia de Științe a Republicii Chineze

CONFERINȚE (SIMPOZIOANE)/ MANIFESTĂRI ȘTIINȚIFICE ORGANIZATE DE ISER

- ***2nd An INTIMATE Example Research-Training School and Workshop***, Băile Tușnad, Romania, 30 mai – 5 iunie 2014 (Responsabil Dr. Daniel Vereș)
- ***2nd Workshop on Regional Climate Dynamics: Late Pleistocene and Holocene climatic variability in the Carpathian - Balkan region (CBW2014)***, Cluj-Napoca, Romania, 6-9 noiembrie 2014 (Responsabil Dr. Daniel Vereș)
- ***CAVEMONITOR - Monitoring human impact in show caves - a pilot project on monitoring protocols and remediation techniques to be implemented in Romanian show caves: Opening Workshop***, Cluj-Napoca, 20-24 septembrie 2014 (Responsabil Dr. Silviu Constantin)