

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 2016

**PRESEDINTELE
CONSILIULUI ŢTIINŢIFIC**

Director, Dr. Ioan Povară

BUCUREŞTI, noiembrie 2016

2. DOMENII DE ACTIVITATE

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

3. RESURSE UMANE: CERCETĂTORI, DOCTORI, CONDOCĂTORI DOCTORATE

3.1. Doctorantură

În anul 2016, în Institutul de Speologie au activat un număr de **28 cercetători atestați** (5 CS I, 7 CS II, 13 CS III și 3 CS), **4 ACS** dintre care **27 doctori** și **5 doctoranzi** în faze diferite de realizare a tezei.

3.2. Conducători de doctorat: 1

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

Teze doctorat coordonate în 2016

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

4. ACTIVITATE DE FORMARE A TINERILOR CERCETĂTORI: DOCTORANZI, POSTDOCTORANZI

4.1. Înscrieri doctorat

Baba Ștefan - *Contribuții la taxonomia și ecologia Chilopodelor din România. Facultatea de Biologie, Universitatea București*

Arghir Răzvan - *Carstul din sud-vestul României: Evoluție geologică, depozite speleale și semnificații paleoclimatic. Facultatea de Geologie, Universitatea București*

Faur Luciana - *Mineralogia argilelor din depozitele speleale în Peștera Muierilor, implicații în evoluția carstului. Facultatea de Geologie, Universitatea București*

4.2. Teze doctorat aflate în diferite etape de susținere

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.

Nae Ioana - *Studii morfologice, sistematice și ecologice asupra faunei de Oribatide (Acari: Oribatida) din Masivul Piatra Craiului*. Universitatea București, Facultatea de Biologie

4.3. Burse postdoctorale și stagii de pregătire în 2016

Dr. Ioana Nicoleta MELEG – *Bursă de limba germană pentru bursier Humboldt*. Durata: 3 luni
Institutul Goethe, Berlin, acordată de Alexander von Humboldt Foundation.

Dr. Ioana Nicoleta MELEG - *Bursă Humboldt pentru cercetare postdoctorală*. Durata: 2 ani,
Universitatea Postdam, acordată de Alexander von Humboldt Foundation.

Dr. Silviu CONSTANTIN: *Grant postdoctoral Fullbright Senior în domeniul Geochimie/ Paleoclimatologie*. Durata 4 luni. Titlul proiectului de cercetare: *High resolution geochronometry and stable isotopes analysis of speleothems in reconstructing paleoclimate and environmental settings of archaeological sites*, acordată de Universitatea of Miami, Florida

Dr. Raluca Ioana BĂNCILĂ: *Bursă Temminck- Fellowship*. *Analysis of asymmetry in 3D vs 2D geometric morphometrics across spatiotemporal isolated lizard populations*. Durata: 21 zile, acordată de Centrul de Biodiversitate Naturalis (CBN), Leiden

Dr. Raluca Ioana BĂNCILĂ: Stagiul de pregătire “*Evaluation of demographic parameters of the Paranemastoma sili populations using the state of the art of the capture-mark-recapture models*”
Centrul de Ecologie Funcțională și Evoluționară, din Montpellier, Franța

Dr. Raluca Ioana BĂNCILĂ: bursă eLTER H2020, Universitatea din Lisabona *Assessing the impact of dryness on herpetofauna (Ophidians) from Montado (Portugal)*. Integrated European Long-Term Ecosystem and Socio-ecological Research Infrastructure, Herdade de Ribaira Abaxio

Dr. Rodica PLĂIAȘU: bursă eLTER H2020, Universitatea din Lisabona, *Assessing the impact of dryness on herpetofauna (Ophidians) from Montado (Portugal)*. Integrated European Long-Term Ecosystem and Socio-ecological Research Infrastructure, Herdade de Ribaira Abaxio

Drd. Ionut-Cornel MIREA: Stagiul de pregătire în teren (nordul Norvegiei, zona carstică Mo i Rana) precum și efectuarea de analize izotopice și chimice în laboratoarele Univerității din Bergen. Perioada de deplasare 2 luni

Drd. Ionut-Cornel MIREA: Stagiul de pregătire pentru analize izotopice a probelor de apă, Universitatea Ștefan cel Mare, Stable Isotope Laboratory

Dr. Daniel VEREȘ: Stagiul laborator analize de Pb pe eșantioane izotopice. Grenoble, Franța. Durata 3 luni

Dr. Virgil DRĂGUȘIN: Research visit for stable isotopes measurements. Laboratoire de Sciences du Climat et de L'Environnement (LSCE), Gif-sur-Yvette, France

4.4. Schimburi interacademice

Dr. Andrei GIURGINCA – *Studiul biogeografic al Oniscideelor si Diplopodelor din carstul Carpatilor Vestici*. Schimb interacademic în Cehia în perioada 07-13.08.2016 cu Institute of Soil Biology, Biology Centre Academy of Sciences of the Czech Republic.

Dr. Ionuț POPA - *Studiul biogeografic al Collebolelor din Carpații Vestici*. Schimb interacademic în Cehia în perioada 07-13.08.2016 cu Institute of Soil Biology, Biology Centre Academy of Sciences of the Czech Republic.

Drd. Ștefan BABA - *Studiul biogeografic al Chilopodelor din carstul Carpaților Vestici*. Schimb interacademic în Cehia în perioada 07-13.08.2016 cu Institute of Soil Biology, Biology Centre Academy of Sciences of the Czech Republic

Dr. Alexandra Maria HILLEBRAND-VOICULESCU - *Fungal communities of underground ecosystems-ecophysiological and morpho-functional adaptations*. Schimb interacademic cu Institutul de Microbiologie, Praga, Academia de Științe a Republicii Cehe

Dr. Cristian Mihai MUNTEANU – *Quaternary paleoclimate reconstructions based on loess deposits and clastic cave sediments*, schimb interacademic cu Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing (China) - Prof. Qingzhen Hao, 18.10 - 02.11.2016.

5. INFRASTRUCTURĂ DE CERCETARE NOU ACHIZIȚIONATĂ / COMPLETATĂ ÎN 2016: BIBLIOTECA DE SPECIALITATE, ECHIPAMENTE DE CERCETARE CU VALORI PESTE 10KEURO

5.1. Biblioteca ISER. În cadrul schimbului internațional în Biblioteca ISER au intrat peste **220 periodice** de la diferite Muzee și Institute din țări ale Uniunii Europene precum și din țări din afara Uniunii Europene.

5.2. Echipamente de cercetare cu valori mai mari de 10000 Euro:

- *autoturism de teren Dacia Duster 4x4 (aprox. 17 400 Euro)*

6. REZULTATELE CERCETĂRII DESFĂȘURATE ÎN ANUL 2016

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

1. **Băncilă RI**, Arntzen J.W. (2016) – Isolation of lizard populations measured with molecular genetic data – *Podarcis guadarramae* in the Ria de Arosa archipelago. *Amphibia-Reptilia*. DOI:10.1163/15685381-00003066 (**F.I.= 1.396**)
2. Bican-Brișan, N., Cosma, C., Cucuș, D, A, Burghel, B., Papp, B., **Constantin, S.**, Moldovan, M., Gîfu, S. (2016) – Use of CR-39 Solid State Nuclear TrackDetectors in Assessment of the

- Radon Exposure in Two Limestone Caves in Romania. *Romanian Journal of Physics*, **61(5-6)**:1040-1050. (F.I.=1,398)
3. Begy, R.Cs., Kovacs, T., **Veres, D.**, Simon, H., 2016 – Atmospheric flux, transport and mass balance of ²¹⁰Pb and ¹³⁷Cs radiotracers in different regions of Romania. *Applied Radiation and Isotopes*, **111**:31–39 (F.I. = 1.136)
 4. Călinescu, O., Marin, M.N., Ioniță, D., Pascu, L.F., **Tudorache, A.**, Surpățeanu, G., Badesa, I.A., Aboul-Enein, H.Z. (2016) – Selective removal of sulfate ion from different drinking waters. *Environmental Nanotechnology, Monitoring & Management*, **6**:164-168, Doi: 10.1016/j.enmm.2016.10.004 (F.I.=0.617)
 5. Feurdean, A., Munteanu, C., Kuemmerle, T., Nielsen, A.B., Hutchinson, S.M., Ruprecht, E., Parr, C.L., **Perșoiu, A.**, Hickler, T. (2016) – Long-term land-cover/use change in a traditional farming landscape in Romania inferred from pollen data, historical maps, and satellite images, *Regional Environmental Change*, DOI: 10.1007/s10113-016-1063-7 (F.I. = 2.664)
 6. Fortes, G.G., Grandal-D'Anglade, A., Kolbe, B., Fernandes, D., **Meleg, I.N.**, Garcia-Vasquez, A., Pinto-Llona, A.C., **Constantin, S.**, De Torres, T.J., Ortiz, J.E., Frischauf, C., Rabeder, G., Hofreiter, M., Barlow, A. (2016) – Ancient DNA reveals differences in behaviour and sociality between brown bears and extinct cave bears. *Molecular Ecology*, **25(19)**:4907-4918. (F.I. = 5,947)
 7. Fu, Q., Posth, C., Hajdinjak, M., Petr, M., Mallick, S., Fernandes, D., Furtwängler, A., Haak, W., Meyer, M., Mittnik, A., Nickel, N., Peltzer, A., Rohland, N., Slon, V., Talamo, S., Lazaridis, I., Lipson, M., Mathieson, I., Schiffels, S., Skoglund, P., Derevianko, A.P., Drozdov, N., Slavinsky, V., Tsybankov, A., Grifoni Cremonesi, R., Mallegni, F., Gély, B., Vacca, E., González Morales, M.R., Straus, L.G., Neugebauer-Maresch, C. Teschler-Nicola, M., **Constantin, S.**, **Moldovan, O.T.**, Benazzi, S., Peresani, M., Coppola, D., Lari, M., Ricci, S., Ronchitelli, A., Valentin, F., Thevenet, C., Wehrberger, K., Grigorescu, D., Rougier, H., Crevecoeur, I., Flas, D., Semal, P., Mannino, M.A., Cupillard, C., Bocherens, H., Conard, N.J., Harvati, K., Moiseyev, V., Drucker, D.G., Svoboda, J., Richards, M.P., Caramelli, D., Pinhasi, R., Kelso, J., Patterson, N., Krause, J., Pääbo, S., Reich, D. (2016)– The genetic history of Ice Age Europe. *Nature*, **534**:200-205, 9 June 2016, doi:10.1038/nature17993. (F.I.= 38,138)
 8. **Giurginca, A., Baba, Șt. C., Munteanu, C.-M.**(2016) – New data on the Oniscidea, Diplopoda and Chilopoda from urban parks of Bucharest. *North-Western Journal of Zoology*, online first e161306 (F.I. = 0.869)
 9. **Iepure, S.**, Feurdean., A., Bădăluță, C., Nagavciuc, V., **Perșoiu, A.** (2016) – Groundwater copepods and ostracods in the Eastern Carpathians, Romania: a distributional pattern and paleoenvironmental perspective. *Biological Journal of the Linnean Society*, **119**: 593-608, DOI: 10.1111/bij.12686 (F.I. = 1.984)
 10. Ițcuș, C., Pascu, M.-D., **Brad, T., Perșoiu, A., Purcărea, C.** (2016) – Diversity of cultured bacteria from the perennial ice block of Scărișoara Ice Cave, Romania. *International Journal of Speleology*, **45 (1)**: 89-100. (F.I. = 1.559)
 11. Karátson, D, S Wulf, **Veres, D.**, EK Magyari, R Gertisser, A Timar-Gabor, Á Novothny, T Telbisz, Z Szalai, V Anechitei-Deacu, O Appelt, M Bormann, Cs Jánosi, K Hubay, F Schäbitz (2016) – The latest explosive eruptions of Ciomadul (Csomád) volcano, East Carpathians—A tephrostratigraphic approach for the 51–29 ka BP time interval. *Journal of Volcanology and Geothermal Research*, **319**:29–51 (F.I. = 2.674)
 12. Manu M, **Băncilă RI**, Iordache V, Onete M (2016) – Impact assessment of heavy metal pollution on soil mite communities (Acari: Mesostigmata) from Zlatna Depression – Transylvania. *Process Safety and Environmental Protection*. DOI: <http://dx.doi.org/10.1016/j.psep.2016.06.011> (F.I. =2.078)

13. **Marin, C.**, Olariu, A., Mitrofan, H., **Tudorache, A.**, Chitea, F. (2016) - Magma-related acid groundwaters scavenge base-metals from the sedimentary basement of the recently extinct Ciomadul Volcano. *SGEM 2016 – Conference Proceedings, Book 1, Volume III, Hydrogeology, Engineering Geology and Geotechnics*, pp. 179-186. ISBN 987-619-7105-57-5. Doi: 10.5593/SGEM2016/B13/S02.023 (**F.I. = 2.663**)
14. Moga, C. I., Samoila, C., Ollerer, K., **Băncilă RI**, Reti, K.-O., Craiveanu, C., Poszet, S., Rakosy, L. & Hartel, T. (2016) – Environmental determinants of the old oaks in wood-pastures from a changing traditional social-ecological system of Romania. *Ambio*, **45**: 480–489. DOI: 10.1007/s13280-015-0758-1 (**F.I. =2.555**)
15. **Moldovan, O.T., Constantin, S.**, Panaiotu, C., Roban, R.D., Frenzel, P., Miko, L. (2016) – Fossil invertebrates records in cave sediments and paleoenvironmental assessments – a study of four cave sites from Romanian Carpathians. *Biogeosciences*, **13**:483-497. (**F.I.=3,7**).
16. Mindrescu, M., **Veres, D.** (2016) – Recent contributions and prospects for climatic variability studies in Central and Eastern Europe. *Quaternary International* **415**:1-5 (**F.I. = 2.067**)
17. Nuțu-Dragomir M.-L., **Marin C.**, Mitrofan H. (2016) – Trace elements geochemistry investigation concerning a CO₂-rich groundwater discharge on the eastern flank of Ciomadul Volcano (East Carpathians, Romania). *SGEM 2016 – Geology, Conference Proceedings, Book 1, I*: 665-672. ISBN 987-619-7105-55-1. Doi: 10.5593/SGEM2016/B11/S01.084 (**F.I. =2.663**)
18. Obreht, I., Zeeden, C., Hambach, U., **Veres, D.**, Marković, S.B., Böskén, J., Svirčev, Z., Bačević, N., Gavrilov, M.B., Lehmkuhl, F. (2016) – Tracing the influence of Mediterranean climate on Southeastern Europe during the past 350,000 years. *Scientific Reports*, **6**:36334. (**F.I.= 5.228**)
19. Pacioglu O., **Moldovan O.T.** (2016) – Response of invertebrates from the hyporheic zone of chalk rivers to eutrophication and land use. *Environmental Science and Pollution Research*, **23**: 4729-4740 (**F.I.= 2.760**)
20. **Robu, M.** (2016)– Fossil Population Structure and Mortality Analysis of the Cave Bears from Urșilor Cave, North-Western Romania. *Acta Palaeontologica Polonica*, **61 (2)**: 469-476 (**F.I. = 1.795**)
21. **Robu, M.** (2016) – Age re-assessment of the cave bear assemblage from Urșilor Cave, north-western Romania. *International Journal of Speleology*, **45 (2)**:123-133 (**F.I. = 1.559**)
22. **Robu, M.**, (2016) – The assessment of the internal architecture of an MIS 3 cave bear bone assemblage. Case study: Urșilor Cave, Western Carpathians, Romania. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **444**:115–123 (**F.I. = 2.525**).
23. **Robu, M., Petculescu, A., Mirea, I-C., Kenesz, M., Vlaicu, M., Constantin S.** (2016). Carnivore impact and dispersal analysis of the cave bear assemblage from Urșilor Cave, north-western Romania. *Acta Carsologica (IF: 0.792)* (acceptata)
24. Sirocko, F., H Knapp, F Dreher, MW Förster, J Albert, H Brunck, **Veres, D.**, S Dietrich, M Zech, U Hambach, M Röhner, S Rudert, K Schwibus, C Adams, P Sigl. (2016) – The ELSA-Vegetation-Stack: Reconstruction of Landscape Evolution Zones (LEZ) from laminated Eifel maar sediments of the last 60,000 years. *Global and Planetary Change*, **142**:108–135. (**F.I.= 3.548**)
25. Stephenson J, Kumaresan D, **Hillebrand-Voiculescu AM**, Murrell JC (2016) – Draft genome sequence of the methane oxidising bacterium “Candidatus Methylomonas sp. LWB” isolated from Movile Cave. *Genome Announc.* – acceptat (**F.I. = 1.18** – www.researchgate.net/journal/2169-8287_Genome_Announcements)
26. **Tudorache, A.**, Ionita, D.E., Marin, N.M., Badea, I.A., **Marin, C.** (2016) – In-house validation of a UV spectrometric method for measurement of nitrate concentration in natural groundwater samples. *Accreditation and Quality Assurance*. Doi: 10.1007/s00769-016-1244-6 (**F.I. =1.010**)

27. Wulf, S., S Fedorowicz, **Veres, D.**, M Łanczont, D Karátson, R Gertisser, M Bormann, E Magyari, O Appelt (2016) – The ‘Roxolany Tephra’(Ukraine)–new evidence for an origin from Ciomadul volcano, East Carpathians. *Journal of Quaternary Science* **31 (6):**565-576. (F.I.=: 2.553)

Cercetători asociați

28. Cleary D., **Onac B.P.**, Forray F.L., Wynn J.G. (2016) – Effect of diet, anthropogenic activity and climate on $\delta^{15}\text{N}$ values of cave bat guano. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **461**: 87-97 (F.I. = 2.525)
29. **Haliuc, A.**, Hutchinson, S. M., Florescu, G., & **Feurdean, A.** (2016)–The role of fire in landscape dynamics: An example of two sediment records from the Rodna Mountains, northern Romanian Carpathians. *Catena*, **137**: 432-440 (F.I. = 2.612)
30. Hutchinson, S.M., Akinyemi, F.O., Mîndrescu, M., Begy, R., **Feurdean, A** (2016) – Recent sediment accumulation rates in contrasting lakes in the Carpathians (Romania): impacts of shifts in socio-economic regime. *Regional Environmental Change* **16 (2):**501–513 (F.I.=2.664)
31. Dumitru, O.A., Forray, F.L., Fornós, J.J., Ersek, V., **Onac, B.P.** 2016: An assessment of stable isotopes variability in precipitation, cave drip, and groundwater from Mallorca Island, Western Mediterranean. *Hydrological Processes*, doi: 10.1002/hyp.10978 (IF: 2.768)
32. Cucos (Dinu), A., Calugar, M.I., Burhele, B.D., Dumitru, O.A., Cosma, C., **Onac, B.P.** 2016: Radon levels in Romanian caves: An occupational survey survey. *Environmental Geochemistry and Health*, doi: 10.1007/s10653-016-9878-1 (IF: 2.079)
33. Forti, P., **Onac, B.P.** 2016: Caves and mineral deposits. *Zeitschrift für Geomorphologie (Suppl. X)*, **60**: 55-101; doi: 10.1127/zfg_suppl/2016/S-60X04 (IF: 1.103)

Total F.I. = 111.789

6.2. Lucrări științifice publicate în reviste de specialitate indexate BDI

1. Danielopol, Dan L., **Tabacaru, I** (2015) – The species concept, thematic subject in natural sciences – the scientific approaches of Emil G. racovitza and Nicolae Botnariuc. *Trav. Inst. Spéol. «Émile Racovitza»*, t. **LIV**: 3-27 (declarat *in press* pentru raportul din 2015).
2. Dorobăț, M.L., **Nae, A., Popa, I.**, Dobrescu, C.M. (2016) – Ecological factors in the colluvial mesovoid shallow substratum, limestone scree, Căpătâna Mountain (Leaota Massif), winter 2014-2015. *Studii si Cercetari, Biologie*, Universitatea ”Vasile Alecsandri” din Bacău, **25(1)**: 38-42.
3. **Giurginca, A., Baba, Șt. C.** (2016) – Edaphic Oniscidea, Diplopoda and Chilopoda from Pădurea Călugărească (South-Eastern Romania). *Ecologica Montenegrina*, **7**: 417-424. (online).
4. **Murariu, D.** (2016) – Mammal fauna (Mammalia) of the Buzău and Teleajen Valleys (Eastern Carpathians – Romania). *Trav. Inst. Spéol. «Émile Racovitza»*, t. **LIV**: 47-66, (declarat *in press* pentru raportul din 2015).
5. **Murariu, D.** (2016) – Revised and commented checklist of mammal species of the Romanian fauna. *Trav. Inst. Spéol. «Émile Racovitza»*, t. **LIV**: 67-92, (declarat *in press* pentru raportul din 2015)
6. **Murariu D.T.**, 2015 – Filosofia biologică în opera Academicianului Nicolae Botnariuc, *Academica*, **XXV(3)**: 70-72. (declarat *in press* pentru raportul din 2015)
7. **Murariu D**, 2015 – Adaptări ale biodiversității la schimbările climatice , *Academica*, **XXV(10)**: 11-14. (declarat *in press* pentru raportul din 2015)
8. **Murariu D.**, 2015 – Comments on the term of biological species. *Muzeul Olteniei Craiova. Studii și comunicări. Științele Naturii*, vol. **XXXI/1**: 255 - 258. (*in press* la raportul din 2015)
9. **Nae, A.** (2015) – *Synaphris Lehtineni*, Marusik, Gnelista & Kovliuk, 2005 (Synaphridae, Araneae) – New Record For The Romanian Fauna. *Trav. Inst. Spéol. «Émile Racovitza»*, t. **LIV**: 27-32, (declarat *in press* pentru raportul din 2015)

10. **Nae, I.**, Ivan, O. (2015) – First record of three oribatid mites species (Acari: Oribatida) in the Romanian fauna. *Trav. Inst. Spéol. «Émile Racovitza»*, t. **LIV**: 33-40 (declarat in press pentru raportul din 2015)
11. **Nitzu, E.**, Dobrin, I., Dumbrava, M., Gutue, M. (2016) – The Range Expansion of *Ovalisia festiva* (Linnaeus, 1767) (Coleoptera: Buprestidae) in Eastern Europe and its Damaging Potential for Cupressaceae. *Travaux du Muséum National d'Histoire Naturelle «Grigore Antipa»* **58(1-2)**: 51-57.
12. **Popa, I.**, Dorobăț, L. (2015) – New records and rare species of Collembola for the Romania fauna (Leaota Massif, Southern Carpathians). *Trav. Inst. Spéol. «Émile Racovitza»*, t. **LIV**: 41-46 (declarat in press pentru raportul din 2015)
13. Toulkeridis, T., Addison, A., **Constantin, S.**, Arce, O., (2015) – Candidatos ecuatorianos para la Lista Mundial del Patrimonio Natural-Las cuevas Triple Volcán y Tayos. In: *VIII Jornadas Académicas Turismo y Patrimonio, Compartiendo lo nuestro con el mundo*. Memorias Contribuciones Científicas, Edition: 1, Imprenta ESPE, Editors: Theofilos Toulkeridis, Luis Andrade, Maribel Mejía, Rafael Cartay, Libertad Regalado, pp.21-29. (declarat in press pentru raportul din 2015)

6.3. Lucrări aflate sub tipar

1. Baciú M., Mogyorosi G., **Drăgușin V.**, Gyurka Z., Storzynski S., - *Mehediñi Mountains. Isverna Cave*, in Caves and Karst Systems of Romania, Ed: Onac B. P. and Ponta G., Springer
2. Decu, V., Juberthie, C., Moldovan, O.T., Iepure, S., Gheorghiu, V – 2016, Roumanie, pp. 1-72 pp., In: *Encyclopaedia Biospeologica* Vol. I, Europe, Ed. by C. Juberthie and V. Decu. Second Edition, Ed. Museum of Natural History in Paris (In press)
3. **Drăgușin V.**, Tîrlă L., **Mirea I.** - Caves of the Făgăraș Mountains, in Caves and Karst Systems of Romania, Ed: Onac B. P. and Ponta G., Springer
4. **Drăgușin V.**, **Vlaicu M.**, Isverceanu E. - *Mehediñi Mountains. The Cave from Mohilii Creek (Ascunsă Cave)*, in Caves and Karst Systems of Romania, Ed: Onac B. P. and Ponta G., Springer
5. **Giurginca, A.**, Sustr, V., Tajovsky, K. – Morphological structures on the integument of *Mesoniscus graniger*. *Trav. Inst. Spéol. «Émile Racovitza»*, t. **LV**.
6. **Nae I.**, **Murariu, D.** – Small mammals (Insectivora and Rodentia) as prey of little owl (*Athene noctua* Scop.) in the South-Western part of Romania –. *Rom. J. Biol. – Zool.*, **61(1)** (in press).
7. **Nitzu, E.**, **Giurginca, A.**, **Nae, A.**, **Popa, I.**, **Baba, Șt.**, **Meleg, I.**, **Vlaicu, M.** – The catalogue of caves with endemic cavernicolous arthropod fauna of Romania. *Trav. Inst. Spéol. «Émile Racovitza»*, t. **LV**.
8. **Onac B. P.**, **Drăgușin V.** – *Hypogene Caves from Romania*, in Selected Hypogene Karst Regions and Caves of the World, Ed: Klimchouk A, Palmer A., Springer
9. **Robu M.**, **Petculescu, A.**, **Mirea I.**, **Kenezs M.**, **Vlaicu M.**, **Nae A.**, **Toma V.** – Size of The Cave Bear Population And Skeletal Distribution From Urșilor Cave, Romania. *Trav. Inst. Spéol. «Émile Racovitza»*, t. **LV**.
10. **Robu, M.**, **Petculescu, A.**, **Mirea, I-C.**, **Kenezs, M.**, **Vlaicu, M.**, **Constantin S.** (2016). Carnivore impact and dispersal analysis of the cave bear assemblage from Urșilor Cave, north-western Romania. *Acta Carsologica (IF: 0.792)* (acceptata)
11. **Tabacaru, I.**, **Giurginca, A.** – Identification key to the cavernicolous Diplopoda of Romania. *Trav. Inst. Spéol. «Émile Racovitza»*, t. **LV**.
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6.10. Organizare manifestări internaționale

- *The CAVEMONITOR International Workshop. Microclimatic, biologic and radiation monitoring of caves*, 17-21 October, Urșilor Cave, Romania
- PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global, Cluj-Napoca, Romania, 21-25 Mai 2016 (<http://pastglobalchanges.org/calendar/all-events/127-pages/1524-pages-romanian-symposium>)

6.11. Participări la manifestări științifice internaționale

1. Anghelinu, M., Niță, L., Murătoreanu, G., Mărgărit, M., Hambach, U., Schmidt, C., **Veres, D.**, Dumitrașcu, V., Molnár, M. – O nouă secvență pluristratificată în Bazinul Ceahlău: cercetări recente în situl paleolitic de la Bistricioara-Lutărie III. *Sesiunea Națională de Comunicări Științifice a Institutului de Arheologie "Vasile Pârvan"*, 30 martie – 1 aprilie 2016.
2. Bădăluță, C., **Perșoiu, A.** – The climatic signal recorded in Scărișoara Ice Cave (Apuseni Mountains, Romania) during the last millennium, *European Geosciences Union General Assembly 2016*, Vienna, Austria, April 17-22, 2016
3. Bercea S., **Nastase-Bucur R., Kenesz M., Constantin S., Moldovan O.T.** – Aquatic microorganisms and invertebrates monitoring in Romanian show caves. *2nd Central European Symposium for Aquatic Macroinvertebrates* (Pecs, Ungaria, iulie 2016)
4. Bercea S., **Nastase-Bucur R., Kenesz M., Constantin S., Moldovan O.T.** – Microbiological monitoring in Romanian show caves. *International Conference on Subterranean Biology* (Fayetteville, USA, iunie 2016)
5. Bercea, S., **Nastase-Bucur, R., Kenesz, M., Moldovan, O.T.** – Microbial abundance on human exposes surfaces: an example from Romanian show caves. *CAVEMONITOR Workshop* (Chiscau, Romania, octombrie 2016).
6. **Borda D., Nastase-Bucur R., Kenesz M., Petculescu A.** – Pestera Tausoare-Un sit de hibernare de importanta nationala. *Conferinta Nationala de Chiropterologie din Romania*, 28-30 oct. 2016, Plaiu Foii, jud. Brasov.

7. **Borda D.**, Uricariu R., Mulec J. – Pesterile cu lilieci și guano din România - un potențial biohazard? *A II-a Conferință Națională de Chiropterologie din România*, Plaiul Foi, jud. Brasov, 28-30.10.2016.
8. Borman, M., Papadopoulou, M., **Veres, D.**, Wulf, S., Klasen, N., Hubay, K., Wennrich, V., Opitz, S., Magyari, E., Panagiotopoulos, K., Karátson, D., Schäbitz, F. – Vegetation and climate history in the Carpathians during MIS 3-2 — a multi-proxy study of a sediment sequence from Mohoș crater, Romania. *Abstract Book of PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global*.
9. **Brad, T.**, Ițcus, C., Pascu, M.-D., **Perșoiu, A.**, **Hillebrand-Voiculescu, A.M.**, Purcărea, C., Fungi in perennial cave ice. *PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global*, Cluj Napoca, Romania, May 23-24, 2016
10. Ciocănau, M.A., **Petculescu, A.**, **Robu, M.**, **Mirea, I.C.**, **Kenezs, M.**, Gurau, M.R., Danes, D., **Constantin, S.**, Codrea, V– Detection and quantification of ancient DNA from cave bears *Ursus spelaeus* samples excavated at the Muierilor Cave (Romania). *The Eighth International Zoological Congress Of "Grigore Antipa" Museum*, 16 – 20 November.
11. **Constantin S.** and **Moldovan O.T.**– Microclimatic and biological monitoring of caves as geoheritage sites. *The 35th International Congress of Geology*, Cape Town, Africa de Sud.
12. **Constantin, S.** & the CAVEMONITOR Team - Instrumental approaches in cave monitoring. Lessons learned after two years of monitoring. *The CAVEMONITOR International Workshop. Microclimatic, biologic and radiation monitoring of caves*, 17-20 October, Urșilor Cave, Romania.
13. Cosac, M., Murătoreanu, G., Cuculici, R., Radu, A., Niță, L., **Veres, D.**, Buzea, D.L., Hubay, K., Hambach, H., Schmidt, C., Dumitrașcu, V. – Cercetări arheologice în aria carstului din Cheile Vârghișului - Munții Perșani (jud. Harghita). Etape preliminare în realizarea unui Sistem Informațional Geografic. *Sesiunea Națională de Comunicări Științifice a Institutului de Arheologie "Vasile Pârvan"*, 30 martie – 1 aprilie 2016.
14. **Drăgușin, V.**, Hoffmann, D.L., Ersek, V., **Veres, D.**, **Perșoiu, A.**, Nagavciuc, V., Bădăluță, C. – A MIS 5e high-altitude speleothem $\delta^{13}\text{C}$ - $\delta^{18}\text{O}$ record from the Romanian Carpathians, *PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global*, Cluj Napoca, Romania, May 23-24, 2016
15. Haliuc A., **Veres, D.**, Hubay, K., Braun, M., Begy, R., Brauer, A., Hutchinson, S.M – 6000 year of lake internal dynamics as reflected by multi-proxy analysis of Lake Ighiel sedimentary record (Carpathian Mts., Romania): the role of natural and anthropogenic driving factors. *Abstract Book XXXIII SIL Congress*, pp. 377-378. *XXXIII SIL Congress*, 31 July- 5 August, Torino, Italy
16. Haliuc, A., **Veres, D.**, Hubay, K., Begy, R., Brauer, A., Hutchinson, S., Braun, M – High-resolution multi-proxy reconstruction of Lake Ighiel (Western Carpathians, Romania): processes and controlling factors of lacustrine dynamics during the mid and late Holocene. *Geophysical Research Abstracts Vol. 18, EGU2016-5702. European Geosciences Union General Assembly 2016*, Vienna, Austria, 17–22 April 2016.
17. Haliuc, A., **Veres, D.**, Hubay, K., Begy, R., Brauer, A., Hutchinson, S.M., Braun, M.– Processes and controlling factors of lacustrine sedimentary dynamics over the last ~6000 years in Lake Ighiel, Apuseni Mts, Romania. *Abstract Book of PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global*. Cluj-Napoca, Romania, 21-15 May 2016
18. Hambach, U., Zeeden, C., **Veres, D.**, Obrecht, I., Markovic, S.B., Lehmkuhl, F.– Towards multi-proxy based millennial time scales in Lower Danube Late Pleistocene Loess-Palaeosol Sequences: evidence for persistent North Atlantic sea surface temperature control. Abstract

Book of Loess2M modelling & mapping, 14-15. *Loess2M modelling & mapping*, Novi Sad, Serbia

19. Hambach, U., Zeeden, C., **Veres, D.**, Obreht, U., Markovic, S.B., Fischer, P., Lehmkuhl, F., 2016. Towards multi-proxy based millennial time scales in Late Pleistocene Danubian Loess-Palaeosol sequences. *Abstract Book of PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global*. Cluj-Napoca, Romania, 21-15 May 2016 (<http://pastglobalchanges.org/calendar/all-events/127-pages/1524-pages-romanian-symposium>)
20. Hubay, K., Haliuc, A., **Veres, D.**, Begy, R., Brauer, A., Hutchinson, S.M., Braun, M.– A comparison study on recent ^{210}Pb and ^{14}C dated sediments of Lake Ighiel, Romania. *Abstract Book. 1st DANTE workshop: Dating the Anthropocene in Environmental archives*, Toulouse, 19 -21 October 2016
21. Itcus, C., Pascu, M.-D., **Hillebrand-Voiculescu, A., M., Brad, T., Persoiu, A.**, Onac, B., P., Purcarea, C. – Cultured bacterial diversity in Scarisoara Ice Cave, *7th International Workshop on Ice Caves*, May 16-22, 2016, Postojna, Slovenia
22. Itcus, C., Pascu, M.-D., **Hillebrand-Voiculescu, A., M., Brad, T., Persoiu, A., Onac, B., P.**, Purcarea, C. – Distribution of Bacteria and Archaea in the ice block of Scarisoara Cave, Romania, *7th International Workshop on Ice Caves*, May 16-22, 2016, Postojna, Slovenia
23. Karátson, D., Wulf, S., **Veres, D.**, Gertisser, R., Telbisz, T., Magyari, E. – Paleogeomorphic evolution of the Ciomadul volcano (East Carpathians, Romania) using integrated volcanological, stratigraphical and radiometric data. *Geophysical Research Abstracts Vol. 18, EGU2016-11738-1. European Geosciences Union General Assembly Vienna, Austria, 17–22 April 2016.*
24. Kern, Z., Nagavciuc, V., Popa, I., **Persoiu, A.** – Evaluation of the age related systematic patterns of stable oxygen and carbon isotope values of Swiss stone pine (*Pinus cembra* L.), Tree Rings in Archaeology, *Climatology and Ecology (TRACE 2016)*, Białowieża, Poland, May 11-15, 2016
25. Lehmkuhl, F., Hambach, U., Zeeden, C., Hauck, T., Böskén, J., Obreht, I., Marković, S., **Veres, D.** – Loess landscapes and paleolandscapes in south-eastern Europe and its relevance for human habitats and dispersal. *The 2016 LoessFest Abstract Book* 154-155.
26. Lehmkuhl, F., Zeeden, C., Hauck, T., Bosken, J., Obreht, I., Hambach, U., Markovic, S., **Veres, D.** –Landscapes and Paleolandscapes in south-eastern Europe during Late Quaternary and their relevance for human habitats and dispersal. *Abstract Book of PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global*.
27. Longman, J., Ersek, V., **Veres, D.**, Salzmán, U –A first record of mass wasting events in peat records from the Romanian Carpathians throughout the late Holocene. *Abstract Book of PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global*. Cluj-Napoca, Romania, 21-15 May 2016
28. Longman, J., Ersek, V., **Veres, D.**, Salzmán, U. – Utilisation of Rb/Sr as proxy for mass wasting events in peat records from the Romanian Carpathians. *Geophysical Research Abstracts Vol. 18, EGU2016-818. European Geosciences Union General Assembly, Vienna, Austria, 17–22 April 2016.*
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32. Măntoiu, D.S., **Mirea, I.C., Borda, D., Năstase-Bucur, R., Moldovan, O.T.** – Cave tourism and the impact on bats: microclimatic models of roost selection. *The Eighth International Zoological Congress Of "Grigore Antipa" Museum*, 16 – 20 November.
33. Măntoiu, D.S., Kravchenko, K., Lehnert, L.S., Kramer-Schadt, S., Vlashchenko, A., **Moldovan, O.T., Mirea, I.C.** et al – Bat migration in the western Black Sea area: stable isotopes analysis ($\delta^{2}\text{Hf}$), ultrasound monitoring and wind farm mortality events. *The Eighth International Zoological Congress Of "Grigore Antipa" Museum*, 16 – 20 November.
34. Măntoiu, D.S., **Mirea, I.C., Năstase-Bucur, R., (Borda) Cociuba, D., Moldovan, O.T.** – Lilieci din peșterile turistice: modele spațiale de selecție a habitatelor optime în funcție de microclimat. *A II-a Conferință Națională de Chiropterologie din România*, 28-30 October, 2016, Brașov, Romania.
35. **Marin C.**, Olariu A., Mitrofan H., **Tudorache A.**, Chitea F. – Magma-related acid groundwaters scavenge base-metals from the sedimentary basement of the recently extinct Ciomadul Volcano, *16th International Multidisciplinary Scientific GeoConference SGEM Albena, Bulgaria*, 28 June – 6 July 2016. Doi: 10.5593/SGEM2016/B13/S02.023
36. Marković, S.B., Yang, S.L., Mason, J.A., Stevens, T., **Veres, D.**, Timar-Gabor, A., Hambach, U., Tomic, N. – Loess correlations: between myth and reality. *The 2016 LoessFest Abstract Book*, 156.
37. Mățău ,F., Perșoiu, I., Nagavciuc, V., **Perșoiu, A.** – Environmental and social interactions during the Neolithic expansion in South-Eastern Europe, *41st International Symposium on Archaeometry*, Kalamta, Greece, May 15-21, 2016
38. **Meleg, I.N.** – Ecological evolution: answers from ancient biomolecules. The case of cave bears, emblematic extinct species of the Ice Age. *Network Meeting of the Alexander von Humboldt Foundation, Freiburg im Breisgau*, (05 – 07 October 2016), Germania, Romania.
39. **Mirea I., Petculescu A., Arghir R., Robu M., Constantin S.** – An estimation model for determining the hourly mean temperature and heat transfer using ArcGIS in Vale Cetății Cave (Romania). *The CAVEMONITOR International Workshop. Microclimatic, biologic and radiation monitoring of caves*, 17-20 October, Urșilor Cave, Romania.
40. **Mirea, I.C., Robu, M., Petculescu, A., Kenesz, M., Luchiana Faur, Arghir, R., Constantin, S.**, Codrea, V– The spatial orientation analysis of *Ursus spelaeus* bones from Muierilor and Urșilor caves (Romania) *The Eighth International Zoological Congress Of "Grigore Antipa" Museum*, 16 – 20 November, Bucharest.
41. Mitrofan H., **Marin C., Povară I., Onac B.P.** – Hercules and Diana hypogene caves (Herculane Spa, Romania): Dissimilar chemical evolutions experienced by their present-day thermal water discharges, *National Cave and Karst Research Institute Symposium 6. DEEPKARST : Origins, Resources, and Management of Hypogene Karst*, Carlsbad, New Mexico, U.S.A., 11-14 April 2016.
42. **Moldovan O.T.** – Spatial and temporal scales in groundwater ecology. 2nd Central European Symposium for Aquatic Macroinvertebrates (Pecs, Ungaria, iulie 2016)
43. **Moldovan O.T.** – The importance of choosing the scale in groundwater fauna study. 33rd Congress of the International Society for Limnology (Torino, Italia, iulie 2016)
44. **Moldovan O.T.** – The importance of sampling frequency in the hyporheic zone. *International Conference on Subterranean Biology* (Fayetteville, USA, iunie 2016)

45. **Moldovan O.T.** – The importance of scale in studying interactions between groundwater habitats and surface water. *International Geologic Congress* (Cape Town, South-Africa, august 2016)
46. **Moldovan O.T.**, Bercea S., **Nastase-Bucur R.**, **Kenezs M.** – Bio- and microbiological monitoring in Romanian show caves. *CAVEMONITOR Workshop* (Chiscau, Romania, octombrie 2016)
47. **Nae, I., Nae, A., Plăiasu, R., Băncilă, R.** – Effects of habitat type on oribatid mite (Acari: Oribatida) communities structure in Southern Carpathians, Romania, *8th Symposium of the European Association of Acarologists*, 11-15 iulie 2016.
48. Nagavciuc, V. Popa, I., Kern Z., **Perşoiu, A.** – 400 years of summer climatic conditions in the N Carpathian Mts. (eastern Europe) based on O and C stable isotopes in Pinus Cembra L tree rings, *European Geosciences Union General Assembly* Vienna, Austria, April 17-22
49. Nagavciuc, V., Popa, I., Kern, Z., **Perşoiu, A.** – Correlation between daily climatic data and oxygen isotope composition in cellulose of Pinus cembra L. tree rings (Călimani Mts. Romania), *Tree Rings in Archaeology, Climatology and Ecology (TRACE 2016)*, Białowieża, Poland, May 11-15, 2016
50. Nagavciuc, V., Popa, I., **Perşoiu, A.**, Kern Z. – Evaluation of the age related systematic patterns of stable oxygen and carbon isotope values of Swiss stone pine (Pinus cembra L.) Eastern Carpathians, Romania, *European Geosciences Union General Assembly*, Vienna, Austria, April 17-22, 2016
51. **Nastase-Bucur R.**, Bercea S., **Kenezs M.**, Constantin S., **Moldovan O.T.** – Preliminary data on microbiological and biotic monitoring in Romanian show caves. *33rd Congress of the International Society for Limnology* (Torino, Italia, iulie 2016)
52. **Nastase-Bucur, R.**, Bercea, S., **Kenezs, M.**, Baricz, A., Andrei, S.A., Banciu, H.L., **Constantin, S.**, **Moldovan, O.T.** – Molecular approaches to microbiological monitoring of show caves. *The CAVEMONITOR International Workshop. Microclimatic, biologic and radiation monitoring of caves*, 17-20 October, Urşilor Cave, Romania.
53. Nuţu-Dragomir M.-L., **Marin C.**, Mitrofan H. – Trace elements geochemistry investigation concerning a CO₂-rich groundwater discharge on the eastern flank of Ciomadul Volcano (East Carpathians, Romania), *16th International Multidisciplinary Scientific GeoConference SGEM 2016*, Albena, Bulgaria, 28 June – 6 July 2016.
54. Obreht I., Zeeden, C., Hambach, U., **Veres, D.**, Marković, S.B., Böskén, J., Svirčev, Z., Bačević, N., Gavrilov, M.B., Lehmkuhl, F. – Tracing the influence of Mediterranean climate on Southeast Europe during the past 350,000 years. *Abstract Book of Loess2M modelling & mapping, 31. Loess2M modelling & mapping*, Novi Sad, Serbia
55. Obreht, I., C Zeeden, U Hambach, **D Veres**, S Markovic, J Boesken, N Bacevic, M Gavrilov, F Lehmkuhl – Tracing the Mediterranean climate influence over the central Balkans (southeast Europe) during the past 350 ka. *Geophysical Research Abstracts Vol. 18, EGU2016-1953. European Geosciences Union General Assembly*, Vienna, Austria, 17–22 April 2016.
56. Perić, Z., Stevens, T., Buylaert, J.P., Marković, S.B., Hambach, U., Fischer, P., Obreht, I., Zeeden, C., **Veres, D.**, Lehmkuhl, F., Vött, A., Gavrilov, M.B. – Luminescence characteristics of quartz grains from the Titel loess plateau. *Abstract Book of Loess2M modelling & mapping, 33-35. Loess2M modelling & mapping*, Novi Sad, Serbia
57. **Perşoiu A.** – Climate, atmospheric circulation and stable isotopes: the present is the key to the past. *Natural versus anthropogenic causes of climate variability and feedback from bio-geo-chemical processes*, Bucharest, Romania, October 18-22, 2016.

58. **Persoiu A.** – Stable isotopes in sedimentary archives as proxies of past climate changes. *Natural versus anthropogenic causes of climate variability and feedback from bio-geochemical processes*, Bucharest, Romania, October 18-22, 2016.
59. **Perşoiu, A.** – O and H stable isotope data from precipitation and river waters in Western Romania, showing a possible link to shifts between North Atlantic and Mediterranean moisture sources, *2nd Research Coordination Meeting of the CRP on Application and development of isotope techniques to evaluate human impacts on water balance and nutrient dynamics of large river basins*, Vienna, Austria, April 11-15, 2016
60. **Perşoiu, A., Bădăluță, C., Onac B.P.** – Stable isotopes in cave ice: tracking changes in moisture sources in eastern Europe, *7th International Workshop on Ice Caves*, Postojna, Slovenia, May 16-22, 2016
61. Perşoiu, I., **Feurdean, A., Perşoiu, A., Rădoane, M., Robu, D., Tanţău, I.** – Late Quaternary floodplain evolution in the Transylvanian tablelands, Romania, *International Scientific Conference of Carpatho-Balkan-Dinaric Geomorphological Commission*, Postojna, Slovenia, September 13-17, 2016
62. Perşoiu, I., **Perşoiu, A.** – Holocene floods in the Central Transylvania Basin, Romania, *European Geosciences Union General Assembly*, Vienna, Austria, April 17-22, 2016
63. Perşoiu, I., **Perşoiu, A.** – Holocene floods in the inner Carpathian Region, Eastern Europe, *PAGES Cross community workshop on past flood variability*, Grenoble, France, June 27-30, 2016
64. **Petculescu A.** – Changes in rodents associations from cave sediments (Romania) during the Upper Pleistocene main climatic events. *International Congress of Geology*, Cape Town, Africa de Sud, august 2016
65. **Petculescu A., Mirea I., Arghir R., Robu M., Constantin S.** – Preliminary data on microclimate variability in Urşilor Cave (Chişcău, Bihor, România). *The CAVEMONITOR International Workshop. Microclimatic, biologic and radiation monitoring of caves*, 17-20 October, Urşilor Cave, Romania.
66. **Petculescu, A., Mirea, I.C., Robu, M., Kenesz, M, Faur, L., Arghir, R., Constantin, S., Codrea, V.** – Paleoclimatic reconstructions on the basis of rodents associations from caves during Upper Pleistocene. *The Eighth International Zoological Congress Of "Grigore Antipa" Museum*, 16 – 20 November, Bucharest.
67. **Popa, I., Şustr, V., Giurginca, A.**– New records of springtails (Hexapoda: Collembola) in Romania (Mehedinti Mountains, SW Carpathians). *The eighth annual zoological congress of „Grigore Antipa” Museum*, 16-19.11.2016: Poster.
68. **Robu, M., Mirea, I.C., Petculescu, A., Kenesz, M., Munteanu, C.-M., Arghir, R., Faur, L., Constantin, S.**– Cave sediments and fossils as karst archives: the Urşilor and Muierilor caves, Romania. *Past Global Changes. Central and Eastern Europe Paleoscience Symposium: From Local to Global*. 23-26 May 2016, Cluj-Napoca.
69. Sandor, M., S., **Brad, T.**, Maxim, A., Sandor, V., and Onica B. –The effects of fertilization on soil fauna, *The 15th International Symposium 'Prospects for the 3rd millennium agriculture'*, September 29 - October 1, 2016, Cluj-Napoca, Romania.
70. Schäbitz F., and the CRC806 team – Our way to Europe: Research for a better understanding of human dispersal. *Abstract Book of PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global*.
71. Schmidt, C., Antohi-Trandafir, O., Timar-Gabor, A., Anghelinu, M., **Veres, D.**, Hambach, U.– The Palaeolithic site Bistricioara-Lutarie III in the Romanian Carpathians–Insights from various luminescence methods. *Geophysical Research Abstracts Vol. 18, EGU2016-4741. European Geosciences Union General Assembly*, Vienna, Austria, 17–22 April 2016.

72. Staubwasser, M., **Dragusin, V.**, Assonov, S., Hofmann, D., Ersek, V., **Veres, D.**, **Onac, B.**, – Seasonal Climate Change in Central-Eastern Europe at the Mid-Late Paleolithic Transition ~ 40 ka ago. Goldschmidt Conference Abstracts, p. 2942 *European Association of Geochemistry Goldschmidt Conference*, Yokohama, Japan, 26 Jun – 1 Jul 2016
73. Timar-Gabor, A., Constantin, D., Anechitei-Deacu, V., **Veres, D.**, S.M. Groza, R.C. Begy, J.P. Buylaert, S.B. Marković, Q. Hao, Z.T. Guo – Optically stimulated luminescence dating techniques and multi-proxy analysis to quantify the timing of the last two major climatic transitions, as recorded by loess-palaeosol sequences. *Abstract Book of PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global*.
74. Timar-Gabor, A., Constantin, D., Anechitei-Deacu, V., **Veres, D.**, Groza, S. M., Begy, R.C., Marković, S. B., Hao, Q., Porat, N. – Results and challenges from optically stimulated luminescence dating of loess aliquot regeneration protocol on quartz. The 2016 LoessFest Abstract Book, 161-162. *The 2016 LoessFest in Eau Claire*, Wisconsin, 22-25 September 2016
75. Timar-Gabor, A., D. Constantin, V. Anechitei-Deacu, **D. Veres**, S.M. Groza, R.C. Begy, J.P. Buylaert, S.B. Marković, Q. Hao, Z.T. Guo, 2016. Abstract Book of Loess2M modelling & mapping, 46-48. *Loess2M modelling & mapping*, Novi Sad, Serbia
76. Tîrlă L., **Drăgușin V.**, **Mîrea I.**, Cojocaru T. – Peștera M3-R2 din Vf. Mușeteica, Munții Făgăraș. *Congresul Național de Speologie*, Ediția a 44-a, 8-11 Septembrie 2016, Oravița.
77. Tîrlă, L., **Mîrea, I.**, Roban, R.-D., Cojocaru, T., **Drăgușin, V.** – Controlul tectonic și structural asupra dezvoltării endocarstului în rocile metacarbonatice din Munții Făgăraș (prezentare orală). *Simpozionul Național de Geomorfologie*, Ediția a XXXII-a, 19-22 Mai 2016, Piatra Neamț.
78. Vasile, S., Venczel, M & **A. Petculescu** – New data on the Early Pleistocene vertebrate assemblages from Copăceni (Dacian Basin, southern Romania) *XIV EAVP Meeting*, 6-10 July, 2016, Haarlem, The Netherlands
79. **Veres D.**, Longman, J., Chauvel C., Zachary, A., Haliuc, A., Ersek, V., Tamas CG., Gogaltan, F., Magyari E., Begy, R., Schabitz F. – Anthropogenic impact and environmental pollution over Southeastern Europe during the last 8000 years. *Abstract Book of PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global*. Cluj-Napoca, Romania, 21-15 May 2016
80. **Veres, D.** – Linking our records - Tephra layers as marker horizons in the Carpathian-Balkan region (Invited lecture). Abstract Book of Inside – Outside Integrating Cave and Open-Air Archives. *Outside Integrating Cave and Open-Air Archives, International Science Meeting in Cologne*, 06 – 09 April 2016
81. **Veres, D.**, C Chauvel, J Longman, Z Atlas, A Haliuc, V Ersek, CG Tamas, F Gogaltan, E Magyari, F Schabitz. – Tracking the history of metal smelting in Southeastern Europe throughout the Holocene. *Geophysical Research Abstracts Vol. 18, EGU2016-4898. European Geosciences Union General Assembly 2016, Vienna, Austria, 17–22 April 2016.*
82. **Veres, D.**, Hambach, U., Timar-Gabor, A., Wulf, S., Karátson, D., Constantin, D., Anechitei-Deacu, V., Zeeden, C., Obreht, I., Fitzsimmons, K., Lehmkuhl, F., Marković, S.B., 2016. Loess and tephtras in the lower Danube region – defining marker horizons and improving chronological considerations. *The 2016 LoessFest Abstract Book*, 162.
83. **Veres, D.**, J. Savarino., B. Jourdain., F. Forray, R. Begy., P. Ginot. – Suitability of cave ice deposits in glaciochemical research: a coupled chemical and water isotopic approach. *IPICS 2016 International Partnerships in Ice Core Sciences Second Open Science Conference*, 7 - 11 March 2016 Hobart, Australia.
84. **Veres, D.**, M Cosac, G Muratoreanu, L Nita, C Schmidt, U Hambach, K Hubay, R Alexandru, R Cuculici, DL Buzea, V Dumitrascu – Multi-method chronological

investigation of a Middle Paleolithic stratigraphic context in Eastern Transylvania, Romania. Geophysical Research Abstracts Vol. 18, EGU2016-5114. European Geosciences Union General Assembly, Vienna, Austria, 17–22 April 2016.

85. Zeeden, C., U Hambach, P Fisher, I Obreht, P Schulte, J Böskén, V Wennrich, F Schabitz, N Klassen, M Gavrilov, **D Veres**, S Markovic, A Vott, F Schabitz – An Upper Pleistocene to Holocene limnic record from the Carpathian Basin near Vrsac (Vojvodina, Serbia). Geophysical Research Abstracts Vol. 18, EGU2016-18468. *European Geosciences Union General Assembly*, Vienna, Austria, 17–22 April 2016.

7. REALIZĂRI EXCELENTE OBȚINUTE ÎN ANUL 2016 (CCA 3 REALIZĂRI): CĂRȚI, LUCRĂRI ȘTIINȚIFICE PUBLICATE ÎN REVISTE CU FACTOR DE IMPACT RIDICAT, ALTE REALIZĂRI PE CERE LE CONSIDERAȚI EXCELENTE

1. Fu, Q., Posth, C., Hajdinjak, M., Petr, M., Mallick, S., Fernandes, D., Furtwängler, A., Haak, W., Meyer, M., Mittnik, A., Nickel, N., Peltzer, A., Rohland, N., Slon, V., Talamo, S., Lazaridis, I., Lipson, M., Mathieson, I., Schiffels, S., Skoglund, P., Derevianko, A.P., Drozdov, N., Slavinsky, V., Tsybankov, A., Grifoni Cremonesi, R., Mallegni, F., Gély, B., Vacca, E., González Morales, M.R., Straus, L.G., Neugebauer-Maresch, C. Teschler-Nicola, M., **Constantin, S., Moldovan, O.T.**, Benazzi, S., Peresani, M., Coppola, D., Lari, M., Ricci, S., Ronchitelli, A., Valentin, F., Thevenet, C., Wehrberger, K., Grigorescu, D., Rougier, H., Crevecoeur, I., Flas, D., Semal, P., Mannino, M.A., Cupillard, C., Bocherens, H., Conard, N.J., Harvati, K., Moiseyev, V., Drucker, D.G., Svoboda, J., Richards, M.P., Caramelli, D., Pinhasi, R., Kelso, J., Patterson, N., Krause, J., Pääbo, S., Reich, D. (2016)– The genetic history of Ice Age Europe. *Nature*, **534**:200-205, 9 June 2016, doi:10.1038/nature17993. (F.I= **38,138**)
2. **Murariu, D** (2016) - Les pinnipedes antarctiques. Recherches d'Emille Racovitza. *Editions Universitaires européennes*, Saarbrücken, Germania, 521 pp, ISBN 978-3-8416-1148-2.
3. **Robu, M.**, (2016) – The assessment of the internal architecture of an MIS 3 cave bear bone assemblage. Case study: Urșilor Cave, Western Carpathians, Romania. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **444**:115–123 (F.I. = **2.525**).

8. PREMII INTERNAȚIONALE / NAȚIONALE (ALE ACADEMIEI ROMÂNE) OBȚINUTE DE CĂTRE CERCETĂTORI (AUTORI, LUCRĂRI PREMIATE)

Premii CNCSIS – Premiarea rezultatelor cercetării 2016

1. **Robu, M.**, (2016) – The assessment of the internal architecture of an MIS 3 cave bear bone assemblage. Case study: Urșilor Cave, Western Carpathians, Romania. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **444**:115–123 (F.I. = **2.525**).
2. **Robu, M.** (2016)– Fossil Population Structure and Mortality Analysis of the Cave Bears from Urșilor Cave, North-Western Romania. *Acta Palaeontologica Polonica*, **61 (2)**: 469-476 (F.I. = **1.795**)

Premii Academia Română Filiala Cluj - Dr. Oana T. Moldovan - Medalia “George Barițiu”

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

9.1. Cooperări științifice naționale

Universitatea Babeș-Bolyai – prof. C. Cosma Proiect CAVEMONITOR, Contract 17SEE/2014.
Universitatea din Suceava – Grant PN-II-CT-RO-FR-2014-2-0055 - Cunatificarea relatiei climat - izotopi stabili in speleoteme de-a lungul unui transect European est-vest
Muzeul Național de Istorie Naturală “Gr. Antipa”
Istitutul de Biologie Bucuresti
Ministerul Mediului, Apelor și Pădurilor
ICAS Bucuresti
Universitatea de Științe Agricole și Medicina Veterinara, Cluj-Napoca.
Muzeul Olteniei, Craiova
Institutul Național de Cercetare Dezvoltare pentru Delta Dunării Tulcea
Academia de Științe Agronomice și Silvice
Facultatea de Biologie, Univ. Babeș-Bolyai Cluj-Napoca
Facultatea de Geografie, Univ. din Suceava
Grupul de Explorări Subacvatice și Speologice
Asociația de Acreditare din România, RENAR

9.2. Cooperări științifice internaționale

Universitatea din Bergen, Norvegia – Proiect CAVEMONITOR, Contract 17SEE/2014.
Comisariatul pentru Energie Atomica (CEA), Franta – Proiect FreEem, Contract C04-8
Institutul de Geologie, Academia Polona, Varsovia – Proiect de colaborare interacademică
Universitatea din Melbourne, Australia – colaborare cu dr. John Hellstrom (datari ICPMS)
Escuela Politécnica Nacional, Quito, Ecuador - colaborare cu prof. Marcos Villacís (studii paleoclimatice)
Universidad de Las Fuerzas Armadas, ESPE, Sangolqui, Ecuador – colaborare cu prof. Theofilos Toulkeridis (speologie fizică, monitorizare peșteri, studii speleoteme)
University of Miami, Rosenstiehl School for Marine and Atmospheric Sciences – colaborare cu prof. Ali Pourmand (datări speleoteme)
Laboratorul de Științele Climatului și Mediului (LSCE), Gif, Franta (Grant IFA-CEA 04-08)
Universitatea din Melbourne, Australia – prof. John Hellstrom (datari U-Th)
Hungarian Natural History Museum - Hungarian OTKA grant NF 101362 ‘PROLONG: Providing long environmental and genetic records of glacial and interglacial climatic oscillations and human impact in the Carpathian Basin’ (Director E. Magyari)
Universitatea din Koln, Germania - Partener extern și contact national pentru Romania in cadrul programului Collaborative Research Centre 806 - Our Way to Europe
University of Bremen, Germania - partener extern in ICDP Potrok Aike Maar Lake Sediment Archive Drilling Project PASADO
Royal Holloway University of London - partener extern în RESET Response of Humans to Abrupt Environmental Transitions
Universitatea din Northumbria, Newcastle, M. Britanie
University of Arkansas, SUA.- Grant NSF nr. BCS-1636686. Paleoanthropological Investigations of Early Pleistocene Hominin Dispersals
CNRS, France - Quantification of the climate – speleothem stable isotopes relationships on a W-E European transec

International Atomic Energy Association - Water stable isotope study of the climate-river discharge relationship(s) in the Lower Danube Watershed (proiect 18459/2014-2017)

Centrul de Biodiversitate Naturalis, Leiden, Olanda - Analysis of asymmetry in 3D vs 2D geometric morphometrics across spatiotemporal isolated lizard populations

*Centrul de Ecologie Funcțională și Evoluționară, Montpellier, Franța - Evaluation of demographic parameters of the *Paranemastoma sili* populations using the state of the art of the capture-mark-recapture models*

Universitatea din Lisabona, Portugalia - Assessing the impact of dryness on herestmen (Opliliones) from Montado (Portugal).

Universitatea Eotvos Lorand, Budapesta, Ungaria

Academia de Științe a Republicii Cehe, Institutul de Biologia Solului

Laboratoire de Geologie de Lyon, Centrul de cercetare ENS Lyon

Institut des Sciences de la Terre, Universitate din Grenoble

University of Salford, Manchester, Marea Britanie

University of Reading, Marea Britanie

Utah State University, Logan, Utah, SUA

Departament of Human Evolution, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germania

Laboratorul de Paleoecologie, Universitatea din Montpellier, Franța

Institutul Goethe, Berlin

European Geosciences Union, Viena, Austria

Universitatea Postdam, Germania

Academia de Științe a Republicii Cehe, Institutul de Microbiologie, Praga, Cehia

National Scientific and Technical Research Council, Argentina (Dr. Maria E. Farias)

Univ. Antofagasta, Facultad de Ciencias del Mar y Recursos Biológicos, Chile (Dr. Cristina Dorador)

Museo Civico di Storia Naturale di Verona, Italy

Royal Natural History Museum - Dr. Frank Fiers

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

Université Libre de Bruxelles (ULB), Evolutionary Biology & Ecology, Brussels, Belgium

Department of Biology (Group for Zoology and Speleobiology, University of Ljubljana)

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

Muzeul de Științe ale Naturii, Stuttgart

Institute of Zoology, Chinese Academy of Sciences (IOZCAS)

9.3. Parteneri în cadrul unor contracte ale ISER (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.

9.4. Vizitatori din străinătate

Dr. Lee Florea – Indiana Geological Survey, Indiana University, USA

Dr. Alena Novakova – Institutul de Microbiologie al Academiei de Științe din Republica Cehia

Stein-Erik Lauritzen – University of Bergen, Norvegia

Francois Bourges – CNRS - Station d'Ecologie Théorique et Expérimentale, Moulis, Franța

Anton Brancelj – National Institute of Biology, Ljubljana, Slovenia

Ulrich Hambach – Universitatea din Bayreuth, Germania

Christian Zeeden – Universitatea din Aachen, Germania

Igor Obrecht - Universitatea din Aachen, Germania

Janina Bosken - Universitatea din Aachen, Germania

Marc Bormann - Universitatea din Koln, Germania

Jack Longman - Universitatea Northumbria, Marea Britanie

Slobodan Markovic – Universitatea Novi Sad, Serbia

Katalin Hubay – Atomki, Debrecen, Ungaria

Joost Aerts - Dept. of Molecular Cell Physiology, Free University Amsterdam, Olanda

10. CONFERINȚE (SIMPOZIOANE)/ MANIFESTĂRI ȘTIINȚIFICE ORGANIZATE DE ISER

- *The CAVEMONITOR International Workshop. Microclimatic, biologic and radiation monitoring of caves, 17-21 October, Urșilor Cave, Romania*
- *PAGES Central and Eastern Europe Paleoscience Symposium: From Local to Global, Cluj-Napoca, Romania, 21-25 Mai 2016 (<http://pastglobalchanges.org/calendar/all-events/127-pages/1524-pages-romanian-symposium>)*

11. GRANTURI / PROIECTE CÂȘTIGATE ÎN COMPETIȚII NAȚIONALE / EUROPENE ÎN ANUL 2016 SAU AFLATE ÎN DERULARE ÎN 2016

Contract 28/ 2015-2017 (PN-II-RU-TE 2014-4–1536), în cadrul programului *Tinere Echipe*
Organismul finanțator: UEFISCDI

Distribuția, utilizarea habitatului și caracteristicile ciclului de viață a speciilor troglodite în mediile hipogee și epigee

Director proiect: Dr. Raluca Ioana Băncilă

Valoare totală proiect ISER/ Valoare 2016: **550 000 RON/ 273 000 RON**

Contract 313/ 2015-2017 (PN-II-RU-TE 2014-4–2301) în cadrul programului *Tinere Echipe*
Organismul finanțator: UEFISCDI

Studiul multidisciplinar al depozitului fosil din Peștera Muierilor în vederea reconstrucției schimbărilor climatice rapide din SW României- Pleistocen sup

Director proiect: Dr. Alexandru Petculescu

Valoare totală proiect ISER/ Valoare 2016: **550 000 RON/ 273 168 RON**

Contract 25 / 2016-2018 (ERANET- Cooperarea Europeană și Internațională – Subprogram 3.2. – Orizont 2020)

Organismul finanțator: UEFISCDI

Diversitatea și activitatea metabolică a microbiomului peșterilor de gheață ca răspuns la schimbările climatice și activitatea antropică

Responsabil proiect ISER: Dr. Alexandra-Maria Hillebrand-Voiculescu

Valoare totală proiect ISER/ Valoare 2016: **117 630 RON/ 53 609 RON**

Contract 48 / 2012-2016, în cadrul programului Parteneriate în domeniile prioritare PNII –PT-PCCA-2011 – 3.1-1619

Organismul finanțator: UEFISCDI

Reziliența sistemelor hidrotermale față de perturbări antropice și naturale. Studiu de caz: zăcămintul termomineral sulfuros de la Băile Herculane.

Director proiect: Dr. Marin Constantin

Valoare totală proiect ISER/ Valoare 2016: **1 863 100 RON/ 171 760 RON**

CAVEMONITOR 17SEE / 2014-2017 (Grant EEA-JRP-RO-NO-2013-1-0259), proiect cercetare implementat în cadrul Mecanismului Financiar al Spațiului Economic European 2009-2014. ISER București - Promotor Proiect, Compartimentul Cluj Napoca – partener

Organismul Finanțator: MINISTERUL EDUCAȚIEI NAȚIONALE

Monitoring human impact in show caves- a pilot project on monitoring protocols and remediation techniques to be implemented in Romanian show caves

Director proiect: Dr. Silviu Constantin, Responsabil ISER Cluj Napoca: Dr. Oana Moldovan

Valoare totală proiect ISER / Valoare 2016 : **593878 RON** (ISER Bucuresti- **401 364 RON**; ISER Cluj: **192514 RON**)

Contract IFA-CEA-C4-08/2014-2016, Capacități, Modul III

Organismul Finanțator: INSTITUTUL DE FIZICĂ ATOMICĂ

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)

Director proiect: Dr. Silviu Constantin

Valoare totală proiect ISER / Valoare 2016 : **445 000 RON / 135 000 RON**

PN-II-ID-PCE-2012-4-0530/ 2013-2016, Proiecte de Cercetare Exploratorie

Organismul Finanțator: UEFISCDI

Millennial-scale geochemical records of anthropogenic impact and natural climate change in the Romanian Carpathians.

Director proiect: Dr. Daniel Vereș

Valoare totală proiect ISER / Valoare 2016: **1.303.573 RON /**

Contracte prestări servicii

SWISS 03 / 2016

Finanțator: CENTRUL PENTRU ARII PROTEJATE ȘI DEZVOLTARE DURABILĂ BIHOR

Studii, sectorizare și realizare plan de management pentru 10 peșteri propuse pentru speoturism

Responsabil proiect: Dr. Marius Robu

Valoare totală 2016: **100 000 RON**

12. ALTE REZULTATE. CONCLUZII ȘI PROPUNERI

În anul 2016 cercetătorii din ISER (**28 cercetători atestați și 4 ACS**) au publicat **33 lucrări ISI** (cu un factor de impact cumulat de **111.789**), **13 lucrări** în reviste indexate BDI, **3 cărți** (dintre care una în străinătate) și **4 capitole de carte** (unul în țară și trei în străinătate). Vizibilitatea cercetătorilor ISER a crescut foarte mult, fiind relevată de cele peste **650 citări ale lucrărilor publicate anterior** (**1021 citări** în funcție de numărul cercetătorilor dintr-o lucrare). Prin cele **85** participări la manifestări internaționale s-au făcut cunoscute rezultate importante ale activității cercetărilor din ISER. Toate participările cercetătorilor din ISER la manifestările internaționale, precum și peste **95%** din deplasările în țară au fost susținute din fondurile obținute prin contracte de cercetare (în anul 2016 fiind în derulare **8 contracte de cercetare**, dintre care **două** au fost obținute în acest an).

Din fondurile de la buget au fost suportate taxele pentru acreditarea *Laboratorului de Hidrogeochimie*, dotat cu aparatură de vârf, aflat în procedură de acreditare conform SR EN ISO/CEI 17025:2005.

De asemenea, **au fost organizate 2 manifestări internaționale la Cluj Napoca și au fost premiate de către UEFISCDI două lucrări** ale cercetătorilor din ISER în cadrul *Programului premiarea rezultatelor cercetării în 2016*.

În ceea ce privește managementul resursei umane în anul 2016 au fost obținute două burse importante: **o bursă postdoctorală Humboldt** pentru doi ani, la Universitatea Postdam, finanțată de *Alexander von Humboldt Foundation* precum și o bursă postdoctorală **Fullbright Senior** în domeniul Geochimie / Paleoclimatologie pe o perioadă de 4 luni, finanțată de Universitatea din Miami, Florida, SUA. În locul persoanei plecate la bursă pentru o perioadă de 2 ani, au fost angajați, până la întoarcerea acesteia în țară, doi cercetători CS III cu ½ normă.

Comparativ cu anul trecut se remarcă **un număr aproximativ egal de lucrări ISI (33 față de 34) și un factor de impact cumulat puțin mai redus (111.789 față de 135.487)**. În schimb există o creștere semnificativă a vizibilității internaționale (un număr de două ori mai mare la citări – peste **1000 față de cele 500 în 2015** și aproape o dublare a numărului de participări la manifestări internaționale – **de la 44 în 2015 la 85 în 2016**). De asemenea, a crescut foarte mult și numărul deplasărilor interne și internaționale (doar pentru compartimentele din București, numărul zilelor de deplasări a fost **394 zile în străinătate și 1124 zile în țară**).

În ceea ce privește cele **3 cărți publicate în 2016**, una a fost publicată **într-o editură internațională**, una în **Editura Academiei Române**, iar un cercetător din ISER **și-a publicat teza de doctorat**, într-o editură recunoscută CNCSIS.

Pe ansamblu, activitatea din 2016 a fost mai bună comparativ cu cea din 2015, remarcându-se o creștere atât calitativă cât și numerică la aproape toate capitolele care definesc activitatea de cercetare.