

**INFORMAȚII PERSONALE**

**Oana Teodora Moldovan**



Sexul Feminin | Data nașterii | Naționalitatea română

**EXPERIENȚA PROFESIONALĂ**

**1989–Prezent Cercetător științific I**

Academia Romana - Institutul de Speologie "Emil Racovita", Cluj Napoca (România)  
 - cercetare in habitate subterane, biospeologie, ecologie subterană, climatologie subterană  
 - conducere doctorat  
 - management proiecte

**2003–Prezent Profesor asociat**

Universitatea Babes-Bolyai, Cluj Napoca (România)  
 - cursuri de de Biospeologie, Biostatistica pentru ecologi, Hidrobiologie, Reconstrucție ecologică

**2012–Prezent Editor**

Subterranean Biology - editor șef  
 Frontiers in Ecology and Evolution - editor asociat

**2019–Prezent Cercetător asociat**

Centro Nacional de Investigación sobre la Evolución Humana, CENIEH (Burgos, Spain)  
 Romanian Institute of Science and Technology (RIST)

**EDUCAȚIE ȘI FORMARE**

**1982–1986 diploma licența**

Universitatea Babes-Bolyai, Cluj Napoca (România)  
 - biologie

**1992–1997 diploma doctor in ecologie subterană**

Universite Paul Sabatier, Toulouse (Franța)

**COMPETENȚE PERSONALE**

Limba(i) maternă(e) română

**Alte limbi străine cunoscute**

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
engleză	C2	C2	C2	C2	C2
franceză	C2	C2	C2	C2	C1
italiană	B2	C1	B1	A2	A2
spaniolă	B2	C1	B1	A2	A2

Niveluri A1 și A2: Utilizator elementar - B1 și B2: Utilizator independent - C1 și C2: Utilizator experimental  
 Cadru european comun de referință pentru limbi străine.

**Competențe organizaționale/manageriale**

- leadership in cercetare
- sef compartiment Cluj (2002-2007)
- diploma manager Resurse Umane
- management granturi nationale si internationale

**Competențe dobândite la locul de muncă**

- studiul complex al habitatelor subterane
- ecologia faunei subterane
- protecția și conservarea faunei subterane
- noțiuni de climatologie subterana
- noțiuni de paleomediu

**Competență digitală**
**AUTOEVALUARE**

Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator independent	Utilizator independent	Utilizator independent	Utilizator independent	Utilizator independent

**Competențele digitale - Grilă de auto-evaluare**

- competente in softuri de redactare, design grafic, statistica etc pe PC si Mac

**INFORMAȚII SUPLIMENTARE**
**Publicații Indexate in Web of Science (2010-2021):**

- Hajdinjak M, Mafessoni F, Skov L, Vernot B, Hübner A, Fu Q, Essel E, Nagel S, Nickel B, Richter J, Moldovan OT, Constantin S, Endarova E, Zahariev N, Spasov R, Welker F, Smith GM, Sinet-Mathiot V, Paskulin L, Fewlass H, Talamo S, Rezek Z, Sirakova S, Sirakov N, McPherron SP, Tsanova T, Hublin J-J, Peter BM, Meyer M, Skoglund P, Kelso J, Pääbo S (2021) Initial Upper Palaeolithic humans in Europe had recent Neanderthal ancestry. *Nature* 592, 253–257.
- Constantin S, Mirea IC, Petculescu A, Arghir RA, Măntoiu DȘ, Kenesz M, Robu M, Moldovan OT\*. (2021) Monitoring Human Impact in Show Caves. A Study of Four Romanian Caves. *Sustainability*, 13(4):1619.
- Zeppelini D, Dal Molin A., Lamas CJE, Sarmiento C, Rheims CA, Fernandes DRR, Lima EFB, Silva EN, Carvalho-Filho F., Kováč L, Montoya-Lerma J, Moldovan OT, Souza-Dias PGB, Demite PR, Feitosa RM, Boyer SL, Weiner WM, Rodrigues WC (2021) The dilemma of self-citation in taxonomy. *Nat Ecol Evol* 5, 2.
- Moldovan A, Hoaghia M-A, Kovacs E, Mirea IC, Kenesz M, Arghir RA, Petculescu A, Levei EA, Moldovan OT (2020) Quality and Health Risk Assessment Associated with Water Consumption —A Case Study on Karstic Springs. *Water*, 12(12): 3510.
- Moldovan OT, Baricz A, Szekeres E, Kenesz M, Hoaghia MA, Levei EA, Mirea IC, Năstase-Bucur R, Brad T, Chiciudean I, Banciu HL. (2020) Testing Different Membrane Filters for 16S rRNA Gene-Based Metabarcoding in Karstic Springs. *Water*, 12(12): 3400.
- Moldovan OT, Iepure S, Brad T, Kenesz M, Mirea IC, Năstase-Bucur R (2020) Database of Romanian cave invertebrates with a Red List of cave species and a list of hotspot/coldspot caves. *Biodiversity Data Journal* 8: e53571.
- Moldovan O.T., Bercea S., Năstase-Bucur R., Constantin S., Kenesz M., Mirea I.C., Petculescu A., Robu M., Arghir R.A. (2020) Management of water bodies in show caves – A microbial approach. *Tourism Management*, 78, 104037.
- Mammola S, Cardoso P, Angyal D, Balázs G, Blick T, Brustel H, Carter J, Čurčić S, Danflous S, Dányi L, Déjean S, Deltshv C, Elverici M, Fernández J, Gasparo F, Komnenov M, Komposch C, Kováč L, Kunt KB, Mock A, Moldovan OT, Naumova M, Pavlek M, Prieto CE, Ribera C, Rozwałka R, Růžička V, Vargovitch RS, Zaenker S, Isaiá M. - Local- versus broad-scale environmental drivers of continental  $\beta$ -diversity patterns in subterranean spider communities across Europe. *Proceedings of the Royal Society B: Biological Sciences* 286. 2019157.

- Bercea, S., Nastase-Bucur, R., Mirea, I.C., Mantoiu, D.S., Kenesz, M., Petculescu, A., Baricz, A., Andrei, A.-S., Banciu, H.L., Papp, B., Constantin, S., Moldovan, O.T.\* (2018) Novel approach to microbiological air monitoring in show caves. *Aerobiologia*, 34: 445-462.
- Mammola S., Cardoso P., Culver D.C., Deharveng L., Ferreira R.L., Fišer C., Galassi D.M.P., Griebler C., Halse S., Humphreys W.F., Isaia M., Malard F., Martinez A., Moldovan O.T., Niemiller M.L., Pavlek M., Reboteira A.S.P.S., Souza-Silva M., Teeling E.C., Wynne J.J., Zigmajster M. (2019) Scientists' Warning on the Conservation of Subterranean Ecosystems. *BioScience*, 69: 641-650.
- Mammola S., Cardoso P., Angyal D., Balázs G., Blick T., Brustel H., Carter J., Čurčić S., Danfous S., Dányi L., Déjean S., Deltshv C., Eiverici M., Fernández J., Gasparo F., Komnánov M., Komposch C., Kováč L., Kunt K.B., Mock A., Moldovan O., Naumova M., Pavlek M., Prieto C.E., Ribera C., Rozwałka R., Růžička V., Vargovitch R.S., Zaenker S., Isaia M. (2019) Continental data on cave-dwelling spider communities across Europe (Arachnida Araneae). *Biodiversity Data Journal* 7: e38492.
- Bercea S., Năstase-Bucur R., Moldovan O.T., Kenesz M., Constantin S. (2019) Yearly microbial cycle of human exposed surfaces in show caves. *Subterranean Biology* 31: 1-14.
- Moldovan, O.T., Brad T. (2019) Comment on "Assessing preservation priorities of caves and karst areas using the frequency of endemic cave-dwelling species" by Nitzu et al. (2018). *Int. J. Speleol.* 47 (1): 43-52. *International Journal of Speleology*, 48: 107-109.
- Constantin, S., Toulkeridis, T., Moldovan, O.T., Villacis, M., Addison, A. (2018) Caves and karst of Ecuador – state-of-the-art and research perspectives, *Physical Geography*, 40:28-5
- Webb D., Robu M., Moldovan O. (2013) Ancient footprints in Ciur-Izbuc Cave, Romania: Preservation and re-analysis. *American Journal of Physical Anthropology*, 150: 286-287.
- Miko, L., Mourek, J., Meleg, I. N., Moldovan, O. T. (2013) Oribatid mite fossils from pre-Quaternary sediments in Slovenian caves II. *Amiracarus pliocennatus* n.gen., n.sp. (Microzetidae) from Pliocene, with comments on the other species of the genus. *Zootaxa* 3670: 557-578.
- 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.
- 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
- 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.
- Moldovan O.T., Levei E. (2015) Temporal variability of fauna and the importance of sampling frequency in the hyporheic zone. *Hydrobiologia*, 755:27-38.
- Meleg, I.N., Batters, K.P., Fiers, F., Moldovan, O.T. (2015) Contrasting copepod community dynamics related to sampling strategies in the unsaturated zone of a karst aquifer. *Aquatic Ecology*, 49: 549-560
- Fu, Q., Hajdinjak, M., Moldovan, O.T., Constantin, S., Mallick, S., Skoglund, P., Patterson, N., Rohland, N., Lazaridis, I., Nickel, B., Viola, B., Prüfer, K., Meyer, M., Kelso, J., Reich, D., Pääbo, S. (2015) An early modern human from Romania with a recent Neanderthal ancestor. *Nature*, 524: 216-219.
- 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.
- Pacioglu O., Moldovan O.T., Shaw P., Robertson A. (2016) Response of invertebrates from the hyporheic zone of chalk rivers to eutrophication and land use. *Environmental Science and Pollution Research*, 23: 4741-4741.
- Moldovan, O.T., Constantin, S., Cheval, S. (2018) Drip heterogeneity and the impact of decreased flow rates on the vadose zone fauna in Ciur-Izbuc Cave, NW Romania. *Ecohydrology*, 11: e2028.
- Epure L., Munteanu V., Constantin S., Moldovan O.T.\* (2017) Ecophysiological groups of bacteria from cave sediments as potential indicators of paleoclimate. *Quaternary International* 432:20-32.
- Fu Q., Posth C., Hajdinjak M., Petr M., Mallick S., Fernandes D., Furtwangler A., Haak W., Meyer M., Mittnik A., Nickel B., 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., Gely B., Vacca E., Gonzalez Morales M.R., Straus L.G., Neugebauer-Maresch C., Teschler-Nicola M., Constantin S., Moldovan O.T., et al. (2016) The genetic history of Ice Age Europe. *Nature*, 534: 200-205.
- Meleg, I.N., Zakšek, V., Fišer, C., Kelemen, B.S. & Moldovan, O.T. (2013) Can environment predict cryptic diversity? The case of *Niphargus* inhabiting Western Carpathian groundwater. *PLOS ONE* 8(10): e76760.
- Moldovan O.T., Meleg I.N., Levei E., Terente M. (2013) A simple method for assessing biotic indicators and predicting biodiversity in the hyporheic zone of a river polluted with metals. *Ecological Indicators*, 24: 412-420.

- Moldovan O. (2012) Invertebrate fossils found in cave sediments as proxies for Pliocene/ Pleistocene paleoenvironment. *Quaternary International*, 279–280: 332.
- Fiers F., Moldovan O.T. (2012) The North American continental copepods in Chappuis' legacy and the redescription of three species of the genus *Moraria* T. & A. Scott 1893 (Crustacea: Copepoda: Harpacticoida). *Zoological Studies*, 51 (8): 1549-1573.
- Moldovan O.T., Meleg I.N., Persoiu A. (2012) Habitat fragmentation and its effects on groundwater populations. *Ecohydrology*, 5: 445-452.
- Meleg I.N., Fiers F., Robu M., Moldovan O.T. (2011) Distribution patterns of subsurface copepods and the impact of environmental parameters. *Limnologica*, 42: 156-164.
- Moldovan O.T., Mihevc A., Miko L., Constantin S., Meleg I.N., Petculescu A., Bosak P. (2011) Invertebrate fossils from cave sediments: a new proxy for pre-Quaternary paleoenvironments. *Biogeosciences*, 8, pp. 1825-1837.
- Meleg I., Moldovan O.T., Iepure S., Fiers F. & Brad T. (2011) Diversity patterns of fauna from dripping water in caves from northwestern Romania. *International Journal of Limnology*, 47: 185-197.
- Brad T., Cimpean M., Meleg I., Iepure S., Povară I. (2011) Spatial distribution patterns of the hyporheic invertebrate communities in a polluted river in Romania. *Hydrobiologia*, 669: 63-82
- Levei, E., Senila, M., Miclean, M., Abraham, B., Roman, C., Stefanescu, L., Moldovan, O.T. (2011) Influence of Rosia Poieni and Rosia Montana mining areas on the water quality of Aries River. *Environmental Engineering and Management Journal*, 10(1): 23-30
- Marin C., Tudorache A., Moldovan O.T., Povara I., Rajka G. (2010) Assessing the contents of arsenic and of some heavy metals in surface flows and in the hyporheic zone of the Aries stream catchment area, Romania. *Carpathian Journal of Earth and Environmental Sciences*, 5, 1: 13-24.

#### Alte articole indexate (2010-2021):

- Moldovan OT, Øvreik Skoglund R, Banciu HL, Dinu Cucuș A, Levei EA, Perșoiu A, Lauritzen S-E (2019) Monitoring and risk assessment for groundwater sources in rural communities of Romania (GROUNDWATERISK). *Research Ideas and Outcomes* 5: e48898.
- Moldovan OT, Iepure S, Brad T, Kenesz M, Mirea IC, Năstase-Bucur R (2020) Database of Romanian cave invertebrates with a Red List of cave species and a list of hotspot/coldspot caves, v5, Dryad, Dataset, <https://doi.org/10.5061/dryad.9ghx3fff9>
- Fejér A., Moldovan O.T.\* (2013) Population size and dispersal patterns for a *Drimeotus* (Coleoptera, Leioldidae, Leptodirini) cave population. *Subterranean Biology*, 11: 31-44.
- Miko L., Mourek J., Meleg I.N., Moldovan O.T. (2012) Oribatid mite fossils from quaternary and prequaternary sediments in Slovenian caves I. two new genera and two new species of the family oppiidae from the Early Pleistocene. *Acta Musei Nationalis Pragae, Series B - Historia Naturalis*, 68: 23-34.
- Robu M., Petculescu A., Panaiotu C., Doppes D., Marius V., Dragușin V., Kenesz M., Moldovan O.T., Constantin, S. (2011) New insights on the cave bear population from the Urșilor cave, Romania. *Quaternaire, Supplement 4*: 107-116
- Meleg I.N., Moldovan O.T., & Fiers F. (2011) Assessing copepod (Crustacea: Copepoda) species richness at different spatial scales in northwestern Romanian caves. *Subterranean Biology* 9: 103-112.

#### Cărți:

- Moldovan O. (2003) *Adaptări structurale și ultrastructurale la coleoptere subterane*. Ed. Casa Cărții de Știință, Cluj, 115 pp. ISBN 973-686-518-5.
- Moldovan O. (2002) *Coleopterele din peșteri*. Ed. Accent, Cluj-Napoca, 116 pp. ISBN 973-8445-11-6.

#### Volume editate:

- Moldovan O.T., Kovac L., Halse S. (2018) *Cave Ecology*. Springer International Publishing. 532 pp. ISBN 978-3-319-98852-8
- Moldovan O., M. Cimpean, D. Borda, S. Iepure, V. Ilie (2007) *Lista faunistică a României. Specii terestre și de apă dulce*. Ed. CristalPrint, Cluj-Napoca, ISBN 978-973-133-130-0.
- Moldovan O.T. (ed.) (2006) *Proceedings of the 18th International Symposium of Biospeleology*, Cluj-Napoca. Casa Cărții de Știință, Cluj-Napoca, ISBN 973-686-901-6.
- Racoviță E.G. (2006) *Essay on biospeological problems*, ediție trilingvă (franceză-engleză-română), Casa Cărții de Știință, Cluj-Napoca, traducere Culver D.C., Moldovan O.T., Racoviță G., 270 pp.
- Moldovan O.T. (ed.) (2006) *Recomandări privind managementul și monitorizarea peșterilor turistice*, Ed. Casa Cărții de Știință, Cluj-Napoca, 131 pp., ISBN 973-686-831-1
- Racoviță G., O. Moldovan, B. Onac (eds.) (2002) *Monografia carstului din Munții Pădurea Craiului*. 264 pp., Ed. Presa Universitară Clujeană, Cluj-Napoca. ISBN 973-610-101-0.
- Moldovan O. (2003) (traducere și adaptare după R. Tercafs) *Protecția domeniului subteran*. Ed. Presa Universitară Clujeană, 280 pp. ISBN 973-610-146-0.

**Capitole în cărți (2010-2021):**

- Moldovan, O.T., Năstase-Bucur, R. (2019) Cave Biology, p. 485-492. In: *Cave and Karst Systems of Romania* (Ponta, G.M.L. & Onac, B.P. Eds), 544 pp, Springer International Publishing, ISBN 978-3-319-90745-1, <https://doi.org/10.1007/978-3-319-90747-5>
- Moldovan, O.T. (2019) Cave Protection in Romania, p. 537-542. In: *Cave and Karst Systems of Romania* (Ponta, G.M.L. & Onac, B.P. Eds), 544 pp, Springer International Publishing, ISBN 978-3-319-90745-1, <https://doi.org/10.1007/978-3-319-90747-5>
- Moldovan O.T., Kovac L., Halse S. (2018) Preamble. In: Moldovan O.T., Kovac L., Halse S. (eds) *Cave Ecology*. Springer International Publishing ISBN 978-3-319-98852-8
- Howarth F.G., Moldovan O.T. 2018. Where Cave Animals Live. In: Moldovan O.T., Kovac L., Halse S. (eds) *Cave Ecology*. Springer International Publishing ISBN 978-3-319-98852-8
- Howarth F.G., Moldovan O.T. 2018. The Ecological Classification of Cave Animals and their Adaptations. In: Moldovan O.T., Kovac L., Halse S. (eds) *Cave Ecology*. Springer International Publishing ISBN 978-3-319-98852-8
- Moldovan O.T. 2018. Short Overview on the Aquatic Cave Fauna. In: Moldovan O.T., Kovac L., Halse S. (eds) *Cave Ecology*. Springer International Publishing ISBN 978-3-319-98852-8
- Milota, Șt., Gherase, M., Sarcina, L., Rodrigo, R., Moldovan, O., Trinkaus, E., Constantin, S., Zilhao, J. (2013) Exploration and documentation of the Pesteră cu Oase. In *Life and Death at the Pesteră cu Oase. A Setting for Modern Human Emergence in Europe* (E. Trinkaus, S. Constantin, J. Zilhao, Eds.), pp. 9-19, ISBN: 978-0-19-539822-9, Oxford University Press.
- Moldovan O. (2012) Beetles, in: *Encyclopedia of Caves 2nd edition* (Culver, D. & White, W.B., eds.), Elsevier Academic Press, NY, pp. 54-62, ISBN: 978-0-12-383832-2.

**Participări la Conferințe Internaționale:**

- International workshop "DNA-based groundwater monitoring" (Divaca, Slovenia, 2019) invited lecture
- 24th International Conference on Subterranean Biology (Aveiro, Portugal, 2018)
- The 10th International Zoological Congress of "Grigore Antipa" Museum (București, Romania, 2017) invited lecture
- 8th Biennial Conference of the International Biogeography Society (Tucson, SUA, 2017)
- The Second Interdisciplinary Symposium Biogeography of the Carpathians: Ecological and evolutionary facets of biodiversity (Cluj-Napoca, Romania, 2017)
- 23rd International Conference on Subterranean Biology (Fayetteville, USA, 2016)
- 2nd Central European Symposium for Aquatic Macroinvertebrates (Pecs, Hungary, 2016)
- 33rd Congress of the International Society for Limnology (Torino, Italy, 2016)
- 35th International Geologic Congress (Cape Town, South-Africa, 2016)
- National Cave and Karst Management Symposium (Cave City, USA, 2015)
- Paleoeological reconstructions – lacustrine, peat and cave sediments Conference (Warszaw, Poland, 2013) invited lecture
- 18th International Cave Bear Symposium, Baile Herculane (Romania, 2012) key lecture
- 34th International Geological Congress (Brisbane, Australia, 2012) key lecture
- 21st International Conference of Subterranean Biology (Kosice, Slovacia, 2012) key lecture
- 22nd Goldschmidt Geochemistry Conference (Montréal, Canada, 2012)
- 18th INQUA Congress (Berna, Elvetia, 2011)
- 28th IAS meeting of sedimentology (Zaragoza, Spania, 2011)
- 5th International Conference of the Society of Biogeography (Heraklion, Creta, 2011)
- 20th International Conference on Subterranean Biology (Postojna, Slovenia, 2010)
- 15th International Congress of Speleology (Texas, SUA, 2009)
- 1st Cave Monitoring Workshop (2009, Gibraltar)
- Workshop: Impact of climate changes on subterranean life of the Carpathian Mountains: challenge for protection (2008, Gardade Sus, Romania)
- 18th International Symposium of Subterranean Biology (Fremantle, Australia 2008)
- Climate Change: The Karst Record (KR5) (Chongching, China, 2008)
- International Symposium „Time in Karst“ (Postojna, Slovenia, 2007), key-speaker
- Symposium Internationale Entomofaunisticum Europae Centralis XX (Cluj-Napoca, Romania, 2007)
- 6th Symposium of Karst Protection (Belgrad, Serbia, 2007)
- International Symposium of Entomologists (Uzice, Serbia, 2007)
- ESFLESC/SCSS Exploratory Workshop. Effectivnes and gaps in European legislation concerning subterranean fauna protection and the importance of setting up a European network of protected caves (Cluj-Napoca, România, 2006)
- 18th International Symposium of Biospeleology (Cluj-Napoca, România, 2006)
- 1st European Congress on Conservation Biology (Eger, Ungaria, 2006)
- 14th International Congress of Speleology (Atena, Grecia, 2005)
- Karst 2005, International Conference and Field Seminar on Water Resources & Environmental Problems in Karst (Belgrad & Kotor, Serbia & Muntenegru, 2005)
- 12th International Karstological School "Classical Karst" (Postojna, Slovenia, 2004) invited lecture
- International Workshop on Subsurface Organisms (Băile Felix, 2003)
- International Workshop «Fauna Carpathica» (Stara Lesna, Slovacia, 2003)
- 3rd Symposium on Cave Archaeology, Geology & Palaeontology (Atena, Grecia, 2003)
- 10th International Karstological School "Classical Karst" (Postojna, Slovenia, 2002)
- 16th International Symposium of Biospeleology (Sao Paulo, Brazilia, 2001), invited lecturer
- Karst studies and problems: 2000 and beyond (Cluj-Napoca, 2000)
- 14th International Symposium of Biospeleology (Makarska, Croatia, 1999)
- International Congress of Insects Reproduction and Development (Amsterdam, Olanda, 1998)
- 12th International Congress of Speleology (La Chaux-de-Fonds, Elveția, 1997)
- Climatic Change: The Karst Record (Bergen, Norvegia, 1996)- 12th International Symposium of Biospeleology (Moulis, Franța, 1995)

**Coordonator proiecte cercetare:**

Analize chimico-mineralogice asupra depunerii de pe betonul aducțiunii principale Drăgan-Remeți, contract ISPH București, 1998

Impactul poluanților organici din apele de suprafață asupra faunei subterane acvatice din bazinul Crișului Repede și bazinul inferior al Someșului, grant ANSTI, 2000-2001

Studiul florei bacteriene de pe paramentul amonte al barajului Drăgan, contract ISCE București, 2000-2001

Structuri și ultrastructuri remarcabile la nevertebrate ca adaptare la condițiile de mediu, grant CNCSIS, 2002-2003, CNCSIS 1166

Întocmirea ghidului pentru managementul peșterilor protejate și a protocolului pentru peșterile turistice din România, contract Asociația Europeană de Mediu, 2004

Utilizarea speciilor endemice în biogeografia istorică și delimitarea arealelor carstice de protecție în Carpații de Vest. GAR 81 (2007-2008)

Modelarea complexă a transferului poluanților în zona de ecoton epicarstica, CNCSIS IDEI 1150, 2007-2010

Modelarea impactului metalelor grele asupra acviferelor prin studiul complex al faunei acvatice subterane și monitorizare în sistem GRID, UEFISCSU, grant 31\_032 Parteneriate, 2007-2010

Fauna în apa de percolație din peșteri ca indicator a poluării de suprafață, Proiect de colaborare bilaterală romano-slovenă, ANCS, gr 72, 2008-2009

Arhive climatice în carst – o abordare integrată pentru studierea oscilațiilor climatice rapide, CNCSIS, Idei Complexe, 2010-2013, coordonator subproiect

Monitorizarea impactului antropic în peșteri turistice - proiect pilot asupra protocoalelor de monitorizare și tehnicilor de remediere în peșterile turistice din România, EEA-JRP-RO-NO-2013-1, 2014-2017, coordonator subproiect

**Coordonator (proiecte internaționale):**

European Science Foundation Exploratory Workshop EW05-073 on „Effectiveness and gaps in the European legislation concerning subterranean fauna protection and the importance of setting up a European network of protected caves”, 2006

Fundația Wenner-Gren, SUA, nr. 7111/2003: Paleoanthropological Documentation of the Pesteră cu Oase, România, 2004-2005

FP5 Program: Fauna Europaea EVR1-CT-1999-20001 FAUNA, coordonator for Romania, 2002-2004

**Colaborator (proiecte naționale):**

Cercetări ecologice privind fauna acvatică subterană din bazinul Someșului Cald (Munții Apuseni), grant MEC, 1998-1999

Cercetări geologice și hidrologice preliminare asupra sistemului hidrocarstic al Peșterii Pișnița (com. Aștileu, jud. Bihor), contract Primăria Aștileu, 1999,

Vulnerabilitatea speciilor endemice și a speciilor rare subterane terestre și acvatice din Parcul Național al Munților Apuseni, grant ANSTI, 2000-2001,

Vulnerabilitatea faunei subterane în peșteri turistice din România, grant CNCSIS, 2003-2005

**Collaborator (proiecte internaționale)**

EU Phare EuropeAid/12/12160/D/SV/RO: Implementation of NATURA 2000 Network in Romania, colaborator/expert, 2007-2008

Proiect LIFE: Acțiuni combinate pentru protecția și valorificarea patrimoniului natural al Munților Apuseni, 2000-2002

**Afilieri**

- International Society for Subterranean Biology (France)
- International Society of Biogeography (USA)
- Science Society of Cluj (Romania)

**Premii**

George Barițiu Medal for outstanding scientific results from the Romanian Academy – Cluj Branch, 2016

**Organizare conferințe științifice:**

- Workshop Protection and Management of Rare and Endangered Subterranean Fauna Symposium, 15th International Congress of Speleology (Texas, SUA, 2009), co-organizer
- Workshop: Impact of climate changes on subterranean life of the Carpathian Mountains: challenge for protection (Garda de Sus, Romania, 2008) organizer
- 18th International Symposium of Biospeleology (Cluj-Napoca, 2006), organizer
- European Science Foundation Exploratory Workshop on *Effectiveness and gaps in the European legislation concerning subterranean fauna protection and the importance of setting up a European network of protected caves* (Cluj-Napoca, 2006), organizer
- International Workshop on Subsurface Organisms (Băile Felix, 2003), organizer
- Fauna Carpathica 2004, International Validation Workshop (Smolenice, Slovacia, 2004), co-organizer
- Karst studies and problems: 2000 and beyond (Cluj-Napoca, 2000), co-organizer

**Altele**

- Membru in the the Scientific Committee of the 24th International Conference on Subterranean Biology (Aveiro, Portugal, 2018), 23rd International Conference on Subterranean Biology (Fayetteville, USA, 2016), 2nd Central European Symposium for Aquatic Macroinvertebrates (Pecs, Hungary, 2016), Scientific Committee of the 22nd International Conference on Subterranean Biology (Juriquilla, Mexico, 2014), 21st International Conference on Subterranean Biology (Kosice Slovakia, 2012), 20th International Conference on Subterranean Biology (Postojna, Slovenia, 2010), 15th International Congress of Speleology (Texas, USA, 2009), 19th International Symposium of Subterranean Biology (Fremantle, Australia, 2008), International Symposium "Time in Karst" (Postojna, Slovenia, 2007),
- Referent pentru: Biodiversity & Conservation, Miscellanea Zoologica, Current Anthropology, Natura Croatica, Zootaxa, International Journal of Speleology, Global Change Biology, Biologia
- membru al IUCN Cave Invertebrates Specialist Group
- Membru in the panelul de experti pentru Slovenian Research Council, Czech Academy of Sciences, European Science Foundation, Romanian Ministry of Education, Research and Innovation, Slovak Academy of Sciences, Lithuanian Agency for Research, ERA.NETRUS Pilot Joint Call on Collaborative Science & Technology Projects
- Membru in Consiliul Științific al Parcului Național Semenic-Cheile Carașului
- Membru in Comisia Patrimoniului Speologic (2012-2016, 2020-2024)