

CURRICULUM VITAE

Personal Information:

Name: **Oana Teodora MOLDOVAN**
Work address: Romanian Academy, "Emil Racovita" Institute of Speleology, Cluj Department
E-mail: oanamol35@gmail.com
Nationality: Romanian

Education: 1982-1986: Faculty of Biology, Geography & Geology, "Babes-Bolyai" University, Cluj, Romania

Academic degree:

Ph.D. in ecology from the "Paul Sabatier" Université, Toulouse, France in 1997

Position held:

2006 – present: *Senior Researcher I*, Emil Racovita Institute of Speleology, Cluj Department
2008 – present: *Associated Professor*, Babes-Bolyai University, Cluj
2019 – present: *Associated Researcher*, Centro Nacional de Investigación sobre la Evolución Humana, CENIEH (Burgos, Spain)
2019 - present: *Associated Researcher*, Romanian Institute of Science and Technology (RIST)
2012 - present: editor-in-chief, *Subterranean Biology* (WoS)
2017 – present: associated editor, *Frontiers in Ecology and Evolution* (WoS)

Teaching: lectures in Hydrobiology, Ecological reconstruction, Statistics for ecology, Biospeleology at the Babes-Bolyai University

Interest in: Protection and management of caves and karst areas, Coleoptera, Crustacea, Cave ecology, Groundwater ecology, Conservation, Invertebrate paleofauna, Paleoenvironments

Work experience:

1992-97 (10 months)	Ph.D. student, Laboratoire souterraine du CNRS, Moulis, France
1995-96 (3 months)	Ph.D. student, Université Paris Sud, Laboratoire "Mécanismes de Communications", France
2002 (1 month)	Visiting Fellow, Laboratory of Electronic Microscopy, Bergen University, Norway
2005 (1 month)	Visiting Fellow, Museo de Ciencias Naturales, Madrid, Spain
2007 (1 month)	Visiting Fellow, Museo di Scienze Naturali, Verona, Italy
2008 (1 month)	Visiting Fellow, Karst Research Institute, Postojna, Slovenia
2008 (1 month)	Visiting Fellow, Royal Belgian Institute of Natural Sciences, Bruxelles, Belgium
2017 (3 months)	Visiting Fellow, University of Quito, Ecuador
2020 (6 months)	Visiting Fellow, Centro Nacional de Investigación sobre la Evolución Humana, CENIEH, Burgos, Spain

Specializations:

- Advanced Study Course on Groundwater Ecology, Wien, Austria (1999)
- Course on Bayesian Statistics, Risø, Denmark (2010)

Membership:

International Society for Subterranean Biology (France)
IUCN, International Union for Conservation of Nature

Awards:

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

Emil Racovitza Award of the Romanian Academy - 2020

International Conferences - participation:

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 (Bucuresti, 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)
Paleoecological 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, Slovakia, 2012) **key lecture**
22nd Goldschmidt Geochemistry Conference (Montréal, Canada, 2012)
18th INQUA Congress (Berna, Swiss, 2011)
28th IAS meeting of sedimentology (Zaragoza, Spain, 2011)
5th International Conference of the Society of Biogeography (Heraklion, Crete, 2011)
20th International Conference on Subterranean Biology (Postojna, Slovenia, 2010)
15th International Congress of Speleology (Texas, SUA, 2009)
1st Cave Monitoring Workshop (2009, Gibraltar)
International Workshop: Impact of climate changes on subterranean life of the Carpathian Mountains: challenge for protection (2008, Garda de 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 (Belgrade, Serbia, 2007)
International Symposium of Entomologists (Uzice, Serbia, 2007)
ESF LESC/SCSS Exploratory Workshop. Effectiveness and gaps in European legislation concerning subterranean fauna protection and the importance of setting up a European network of protected caves (Cluj-Napoca, Romania, 2006)
18th International Symposium of Biospeleology (Cluj-Napoca, Romania, 2006)
1st European Congress on Conservation Biology (Eger, Hungary, 2006)
14th International Congress of Speleology (Athens, Grecia, 2005)
Karst 2005, International Conference and Field Seminar on Water Resources & Environmental Problems in Karst (Belgrade & Kotor, Serbia & Montenegro, 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, Slovakia, 2003)
3rd Symposium on Cave Archaeology, Geology & Palaeontology (Athens, Grecia, 2003)
10th International Karstological School “Classical Karst” (Postojna, Slovenia, 2002)
16th International Symposium of Biospeleology (Sao Paulo, Brazil, 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, The Netherlands, 1998)
12th International Congress of Speleology (La Chaux-de-Fonds, Swiss, 1997)
Climatic Change: The Karst Record (Bergen, Norway, 1996)
12th International Symposium of Biospeleology (Moulis, France, 1995)

Languages: English, French, German, Spanish, Italian

Other activities:

Member in 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), 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).

Ad-hoc referee for Hydrobiologia, Studies on Neotropical Fauna and Environment, Biodiversity & Conservation, Miscellanea Zoologica, Current Anthropology, Natura Croatica, Zootaxa, International Journal of Speleology, Global Change Biology, Biologia, Hydrobiologia, Ecohydrology, Zoologische Anzeiger, etc.

Member of the IUCN Cave Invertebrates Specialist Group

Supervisor of bachelor, master and PhD students

Member in the expert panel for grant evaluation of the Croatian Science Foundation, 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.

Organized conferences

25th International Conference on Subterranean Biology (Cluj-Napoca, Romania, 2022), **organizer**
Workshop *Protection and Management of Rare and Endangered Subterranean Fauna Symposium*,
15th International Congress of Speleology (Texas, USA, 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, Romania, 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, Romania, 2003), **organizer**
Fauna Carpathica 2004, International Validation Workshop (Smolenice, Slovakia, 2004), **co-organizer**
Karst studies and problems: 2000 and beyond (Cluj-Napoca, Romania, 2000), **co-organizer**

Patents

Chilintan Mircea, Cimponeriu Andrei, Maries Gabriel, **Moldovan Oana**. Method and circuit of conductivity measurement. OSIM no. A/01011/25.10.2010

Papers/Books

Indexed Papers in Web of Science (Core Collection):

- Saclier, N., Duchemin, L., Konecny-Dupré, L., Grison, P., Eme, D., Martin, C., Callou, C., Lefébure, T., François, C., Issartel, C., Lewis, J. J., Stoch, F., Sket, B., Gottstein, S., Deliç, T., Zagamajster, M., Grabowski, M., Weber, D., Reboleira, A. S. P. S. ... **Moldovan, O.T.**, ... Malard, F. (2023). A collaborative backbone resource for comparative studies of subterranean evolution: The World Asellidae database. *Molecular Ecology Resources*, 00, 1–19. <https://doi.org/10.1111/1755-0998.13882>
- Theodorescu, M., Bucur, R., Bulzu, PA., Faur L., Levei EA., Mirea IC, Cadar O., Ferreira R, Souza-Silva M., **Moldovan OT**. (2023). Environmental Drivers of the Moonmilk Microbiome Diversity in Some Temperate and Tropical Caves. *Microb Ecol* <https://doi.org/10.1007/s00248-023-02286-8>.
- Haidău C, Bulzu PA, Mirea IC, Bucur R, **Moldovan OT** (2023): Potential Environmental Drivers of Fossil Bones Degradation—A Metabarcoding Approach in Two Carpathian Caves, *Geomicrobiology Journal*, 40:7, 654-666.
- Szekeres, E, Baricz, A, Cristea A, Levei, EA, Stupar, Z, Brad, T., Kenesz, M., **Moldovan, OT**, Banciu, HL, Karst spring microbiome: diversity, core taxa, and community response to pathogens and antibiotic resistance gene contamination. *Science of the Total Environment*, 895, 165133.
- Nesterovschi I, Marica I, Levei EA, Angyus SB, Kenesz M, **Moldovan OT**, Cîntă Pînzaru S. (2023) Subterranean transport of microplastics as evidenced in karst springs and their characterization using Raman spectroscopy. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 298, 122811.
- Török AI, Moldovan A, Tănăselia C, Kovacs E, Mirea IC, **Moldovan OT**, Levei EA. (2023) Sr Isotope, Major, and Trace Element Signatures in Karst Groundwaters. *Water* 15(7):1431.
- Bogdan DF, Baricz AI, Chiciudean I, Bulzu P-A, Cristea A, Năstase-Bucur R, Levei EA, Cadar O, Sitar C, Banciu H, **Moldovan OT** (2023) Diversity, distribution and organic substrates preferences of microbial communities of a low anthropic activity cave in North-Western Romania. *Front. Microbiol.* 14:962452.

- Măntoiu DȘ, Mirea IC, Șandric IC, Cișlariu AG, Gherghel I, Constantin S, **Moldovan OT** (2022) Bat dynamics modelling as a tool for conservation management in subterranean environments. *PLoS ONE* 17(10): e0275984.
- Stupar Z, Levei EA Neag E, Baricz A, Szekeres E, **Moldovan OT**. (2022) Microbial water quality and health risk assessment in karst springs from Apuseni Mountains, Romania. *Frontiers in Environmental Science* 10.
- Chiciudean I, Russo G, Bogdan DF, Levei EA, Faur L, Hillebrand-Voiculescu A, **Moldovan OT**, Banciu HL. Competition-cooperation in the chemoautotrophic ecosystem of Movile Cave: first metagenomic approach on sediments. *Environmental Microbiome* 17, 44 (2022).
- Năstase-Bucur R, Allegrucci G, Ketmaier V, Mirea IC, **Moldovan OT** (2022) Comparative phylogeography of two troglobitic Coleoptera (Leiodidae, Leptodirini) species from Romania based on mitochondrial DNA. *Subterranean Biology* 42: 61-78.
- Brad T, Bizic M, Ionescu D, Chiriac CM, Kenesz M, Roba C, Ionescu A, Fekete A, Mirea IC, **Moldovan OT**. 2022. Potential for Natural Attenuation of Domestic and Agricultural Pollution in Karst Groundwater Environments. *Water*,14(10):1597.
- Haidău C, Năstase-Bucur R, Bulzu P, Levei E, Cadar O, Mirea IC, Faur L, Fruth V, Atkinson I, Constantin S, **Moldovan OT**. 2022. A 16S rRNA Gene-Based Metabarcoding of Phosphate-Rich Deposits in Muierilor Cave, South-Western Carpathians. *Frontiers in Microbiology* 13.
- Moldovan OT**, Miko L, Panaiotu C, Roban RD, Gașiorowski M, Hercman H, Orza R, Kenesz M, Mirea IC, Petculescu A, Robu M, Constantin S. 2022. Small Human Population Drastic Impact, as Inferred From Multi-Proxies of a Temporary Carpathian Lake. *Frontiers in Earth Science* 10.
- Mammola S, Meierhofer MB, Borges PAV, ..., **Moldovan OT**, ..., Cardoso P. 2022. Towards evidence-based conservation of subterranean ecosystems. *Biological Reviews*, 97: 1476-1510.
- Ionescu MI, Neagoe DȘ, Crăciun AM, **Moldovan OT**. 2022. The Gram-Negative Bacilli Isolated from Caves—*Sphingomonas paucimobilis* and *Hafnia alvei* and a Review of Their Involvement in Human Infections. *International Journal of Environmental Research and Public Health*, 19(4):2324.
- Moldovan A, Török AI, Mirea IC, Micle V, **Moldovan OT**, Levei EA. 2022. Health Risk Assessment in Southern Carpathians Small Rural Communities Using Karst Springs as a Drinking Water Source. *International Journal of Environmental Research and Public Health*, 19(1):234.
- Iepure S, Bădăluță C-A, **Moldovan OT** (2021) An annotated checklist of groundwater Cyclopoida and Harpacticoida (Crustacea, Copepoda) from Romania with notes on their distribution and ecology. *Subterranean Biology* 41: 87-108.
- Torok AI, Levei EA, Constantin S, **Moldovan OT**, Senila M, Cadar O, Casoni D, Angyus SB, Tanaselia C, Covaci E, Frentiu T. (2021) Application of Inductively Coupled Plasma Spectrometric Techniques and Multivariate Statistical Analysis in the Hydrogeochemical Profiling of Caves—Case Study Cloșani, Romania. *Molecules*, 26(22):6788.
- Wynne, JJ, Howarth, FG, Mammola, S, ...**Moldovan, OT**, ...et al. (2021) A conservation roadmap for the subterranean biome. *Conservation Letters*, e12834.
- Angyus SB, Levei E, Petreus D, Etz R, Covaci E, **Moldovan OT**, Ponta M, Darvasi E, Frentiu T (2021) Simultaneous Determination of As, Bi, Sb, Se, Te, Hg, Pb and Sn by Small-Sized Electrothermal Vaporization Capacitively Coupled Plasma Microtorch Optical Emission Spectrometry Using Direct Liquid Microsampling. *Molecules* 26: 2642.
- Hoaghia M-A, Moldovan A, Kovacs E, Mirea IC, Kenesz M, Brad T, Cadar O, Micle V, Levei EA, **Moldovan OT** (2021) Water Quality and Hydrogeochemical Characteristics of Some Karst Water Sources in Apuseni Mountains, Romania. *Water* 13: 857.
- Cucoș AL, Moldovan MC, Burghel BD, Dicu T, **Moldovan OT**. 2021. Radiological Risk Assessment for Karstic Springs Used as Drinking Water in Rural Romania. *Atmosphere*. 12(9):1207.
- Török AI, Moldovan A, Levei EA, Cadar O, Tănăselia C, **Moldovan OT** (2021) Assessment of Lithium, Macro- and Microelements in Water, Soil and Plant Samples from Karst Areas in Romania. *Materials* 14: 4002.
- Sitar C., Barbu-Tudoran L., **Moldovan OT**. (2021) Morphological and Micromorphological Description of the Larvae of Two Endemic Species of *Duvalius* (Coleoptera, Carabidae, Trechini). *Biology* 10, 7: 627.
- Hajdinjak M, Mafessoni F, Skov L, Vernot B, Hübner A, Fu Q, Essel E, Nagel S, Nickel B, Richter J, **Moldovan OT**, Constantin S, Enderova 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.
- Măntoiu DȘ, Kravchenko K, Lehnert LS, Vlaschenko A, **Moldovan OT**, Mirea IC, Stanciu RC, Zaharia R, Popescu-Mirceni R, Nistorescu MC, Voigt CC (2020) Wildlife and infrastructure: impact of wind turbines on bats in the Black Sea coast region. *Eur J Wildl Res* 66, 44.
- 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.
- Bercea S, Năstase-Bucur R, **Moldovan OT**, Kenesz M, Constantin S (2019) Yearly microbial cycle of human exposed surfaces in show caves. *Subterranean Biology* 31: 1-14.
- 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, Růžicka V, Vargovitsh RS, Zaenker S, Isaia M (2019) Local- versus broad-scale environmental drivers of continental β -diversity patterns in subterranean spider communities across Europe. *Proceedings of the Royal Society B: Biological Sciences* 286: 20191579.
- 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., Reboleira 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., Danflous S., Dányi L., Déjean S., Deltshv C., Elverici M., Fernández J., Gasparo F., Komnenov M., Komposch C., Kováč L., Kunt K.B., Mock A., **Moldovan O.**, Naumova M., Pavlek M., Prieto C.E., Ribera C., Rozwałka R., Růžicka V., Vargovitsh R.S., Zaenker S., Isaia M. (2019) Continental data on cave-dwelling spider communities across Europe (Arachnida: Araneae). *Biodiversity Data Journal* 7: e38492.
- 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*, 40:28-51.
- Bercea, S., Nastase-Bucur, R., Mirea, I.C., Măntoiu, 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*, 34:445-468.
- 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., Mitthnik 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.
- 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.** (2016) Response of invertebrates from the hyporheic zone of chalk rivers to eutrophication and land use. *Environmental Science and Pollution Research*, 23: 4729-4740.
- 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.

- Levei E.A., Frentiu T., Ponta M., Senila M., **Moldovan O.T.** (2015) Assessment of pollutants input of acid mine drainage and domestic activities in Aries river water, Romania – A chemometric approach. *Environmental Engineering and Management Journal*, 11: 2567- 2576.
- Meleg, I.N., Battes, 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.
- Moldovan O.T.**, Levei E. (2015) Temporal variability of fauna and the importance of sampling frequency in the hyporheic zone. *Hydrobiologia*, 755:27-38.
- 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.
- Webb, D., Robu, M., **Moldovan, O.T.**, Constantin, S., Tomus, B., Neag, I. (2014) Ancient human footprints in Ciur-Izbuca 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.
- 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.
- 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*, DOI: 10.1371/journal.pone.0076760.
- Moldovan O.T.**, Meleg IN, 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.
- 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: 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.*** (2012) 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, 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.
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- Chemical-mineralogical analyzes of the deposition on the concrete of the main adduction Drăgan-Remeți, ISPH contract Bucharest, 1998
- Impact of organic pollutants in surface waters on groundwater aquatic fauna in the Crisului Repede and the lower Someș basins, ANSTI grant, 2000-2001
- Study of the bacterial flora on the upstream facing of the Dragan dam, ISCE Bucharest contract, 2000-2001
- Outstanding structures and ultrastructures in invertebrates as adaptation to environmental conditions, CNCSIS grant, 2002-2003, CNCSIS 1166
- Preparation of the guide for the management of protected caves and the monitoring protocol for tourist caves in Romania, contract European Environmental Association, 2004
- The use of endemic species in historical biogeography and the delimitation of karst protection areas in the Western Carpathians, GAR 81, 2007-2008
- Complex modeling of pollutant transfer in the epikarstic ecotone area, CNCSIS IDEI 1150, 2007-2010
- Modeling the impact of heavy metals on aquifers through the complex study of groundwater aquatic fauna and monitoring in GRID system, UEFISCSU, grant 31_032 Partnerships, 2007-2010
- Fauna in cave percolation water as an indicator of surface pollution, Romanian-Slovenian bilateral collaboration project, ANCS, gr 72, 2008-2009
- Climate archives in karst - an integrated approach for the study of rapid climate oscillations, CNCSIS, Complex Ideas, 2010-2013, subproject coordinator
- Monitoring the anthropic impact in tourist caves - pilot project on monitoring protocols and remediation techniques in tourist caves in Romania, EEA-JRP-RO-NO-2013-1, 2014-2017, subproject coordinator

Food chains in the dark; diversity and evolutionary processes in caves (DARKFOOD), UEFISCDI PCCF16, 2018-2022

Services for elaboration of studies in the field of environment necessary for the management plan within the project "Development of tools for adaptive management of natural capital in protected areas Apuseni Natural Park, ROSC / 0002 Apuseni, ROSPA0081 Apuseni Mountains - Vladeasa and ROSCJ00J6 Buteasa", project code SMJS 122643 Contract No. 489/2021, 2021-2023

Project Coordinator (International):

Monitoring and risk assessment for groundwater sources in rural communities of Romania (GROUNDWATERISK), European Financial Mechanism 2014-2021, 2019-2023

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

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

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

Project Collaborator (Romanian)

Ecological research on the underground aquatic fauna from the Someșul Cald basin (Apuseni Mountains), MEC grant, 1998-1999

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