**CURRICULUM VITAE**

**Personal Information:**

Name: **Oana Teodora MOLDOVAN**

Work address: Romanian Academy, “Emil Racovita” Institute of Speleology, Cluj Department

E-mail: [oanamol35@gmail.com](mailto: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 “Mecanismes 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 din 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, Risǿ, Denmark (2010)

**International expeditions**: Israel, Brazil, Bosnia-Hercegovina, Slovakia, Poland

**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**:

25th International Conference on Subterranean Biology (Cluj-Napoca, Romania, 2022)

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, Slovacia, 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), 21stInternational 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, InternationalJournal 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.NET](http://era.net/)RUS Pilot Joint Call on Collaborative Science & Technology Projects.

**Organized international conferences:**

25th International Conference on Subterranean Biology (Cluj-Napoca, Romania, 2022), **organizer**

Workshop *Protection and Management of Rare and Endangered Subterranean Fauna Symposium*, 15thInternational 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):

Torok AI, Casoni D, Senila M, Tanaselia C, Covaci E, Hoaghia M-A, Neag E, Cadar O, Levei EA, Arghir R, **Moldovan OT**, Constantin S, Frentiu T. 2024. Spatial variability and hydro/geochemical profiling of the elemental composition of mineral deposits and drip water from caves using unsupervised chemometric modelling, Chemical Geology, 646, 121903.

**Moldovan, O.T.**, Carrell, A.A., Bulzu, PA. *et al.* The gut microbiome mediates adaptation to scarce food in Coleoptera. *Environmental Microbiome* 18, 80 (2023).

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.,  Delić, T.,  Zagmajster, 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*, 24, e13882.

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. *Microbil Ecol*ogy, 86,2847-2857.

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 Spectroscop*y, 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 DŞ, Mirea IC**,** Şandric IC, Cîşlariu 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, Gąsiorowski 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, Bădăluţă 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, Burghele 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, 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.

Măntoiu DŞ, 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, Ćurčić S, Danflous S, Dányi L, Déjean S, Deltshev 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, Vargovitsh RS, Zaenker S, Isaia M (2019) Local- versus broad-scale environmental drivers of continentalβ-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., Zagmajster 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., Ćurčić S., Danflous S., Dányi L., Déjean S., Deltshev 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., RůžičkaV., 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., 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*, 34:445-468.

**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 Internationa*l 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.

**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.

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**Projects/Grants**

Project Coordinator (Romanian):

Chemical-mineralogical analyzes of the deposition on the concrete of the main adduction Drăgan-Remeţi, ISPH contract Bucharest, 1998

Impact of organic pollutants in surface waters on groundwater aquatic fauna in the Crisului Repede and the lower Someş 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 Pestera 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 Someşul Cald basin (Apuseni Mountains), MEC grant, 1998-1999

Preliminary geological and hydrological research on the hydrokarstic system of Pişniţa Cave (com. Aştileu, jud. Bihor), contract Aştileu City Hall, 1999

Vulnerability of endemic species and rare underground terrestrial and aquatic species in the Apuseni Mountains National Park, ANSTI grant, 2000-2001

Vulnerability of underground fauna in tourist caves in Romania, CNCSIS grant, 2003-2005

The role of the Carpathian range in controlling past climate changes during Quaternary - a multi-proxy, speleothem-based, approach, UEFISCDI, grant PCE 197/2016, 2016-2018

Project Collaborator (international)

Karst climate archives (KARSTHIVES), European Financial Mechanism 2014-2021, 2019-2023

EU Phare EuropeAid/12/12160/D/SV/RO: Implementation of NATURA 2000 Network in Romania,

collaborator/expert, 2007-2008

LIFE Project: Combined actions for the protection and valuation of the natural heritage of the Apuseni Mountains, 2000-2002.