

CURRICULUM VITAE

Personal Information:

Name: **MOLDOVAN**, Oana Teodora
Work address: Romanian Academy, "Emil Racovitza" Institute of Speleology, Cluj Department
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E-mail: oanamol35@gmail.com
Date of birth: April 25th 1964, Cluj-Napoca, Romania
Nationality: Romanian

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

Academic degree: B.Sc. from "Babes Bolyai" University of Cluj in 1986
Ph.D. from the "Paul Sabatier" Université, Toulouse, France in 1997

Position held: 2006 – present: *Senior Researcher I*, Emil Racovitza 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)
2012 - present: editor-in-chief, *Subterranean Biology* (Q3, Scimag)
2017 – present: associated editor, *Frontiers in Ecology and Evolution* (WoS)

Teaching: lectures in Hydrobiology, Ecological reconstruction, Statistics for ecology, Biospeleology

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

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

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

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

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)
- Paleocological 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, 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)
- 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 (Belgrad, Serbia, 2007)
- International Symposium of Entomologists (Uzice, Serbia, 2007)
- ESF LESC/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, Slovakia, 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)

Languages: English, French, German, Italian (basics), Spanish (basics)

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: 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 diploma, master and PhD students
- Member in the expert panel for grant evaluation of the 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, 2020), **organizer** – postponed to 2022
- 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, 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, 2003), **organizer**
- Fauna Carpathica 2004, International Validation Workshop (Smolenice, Slovakia, 2004), **co-organizer**
- Karst studies and problems: 2000 and beyond (Cluj-Napoca, 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

Indexed Papers in Web of Science:

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., 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., Ćurčić 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., Růžička 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., 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-Izbuca Cave, NW Romania. *Ecology*, 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.
- 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 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.
- 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.*** (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.
- Moldovan O.T.***, Levei E., Banciu M., Banciu H. L., Marin C., Pavelescu C., 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*, 101: 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 Arieș stream catchment area, Romania. *Carpathian Journal of Earth and Environmental Sciences*, 5, 1: 13-24.
- Moldovan O.T.***, Pipan T., Iepure S., Mihevc A., Mulec J. (2007) Biodiversity and ecology of fauna in percolating water in selected Slovenian and Romanian caves. *Acta Carsologica*, 36 (3): 493-501.
- Rougier H., Milota S., Rodrigo R., Gherase M., Sarcină L., **Moldovan O.**, Zilhao J., Constantin S., Franciscus R. G., Zollikofer C. P. E., Ponce-de-Leon M. & Trinkaus E. (2007) Cranial Morphology of the Earliest Modern European: Peștera cu Oase 2. *Proc. Nat. Acad. Sci., U.S.A.*, 104: 1165-1170.
- Moldovan O. T.***, Racoviță G., Dunaj G. (2007) Reconsidering the *Pholeuon* Hampe, 1856 (Coleoptera: Leiodidae: Cholevinae) with the description of a new sub-genus. *Zootaxa*, 1449: 31-43.
- Moldovan O. T.***, Rajka G. (2007) Historical biogeography of subterranean beetles – between „Plato's cave” and scientific evidence. *Acta Carsologica*, 36: 77-86.
- Quiles J., Petrea C., **Moldovan O. T.**, Trinkaus E., Zilhao J., Rodrigo R., Rougier H., Constantin S., Milota S., Gherase M., Sarcina L. (2006) Cave bears from P. cu Oase (Banat, Romania): taphonomy and paleobiology. *C.R. Acad. Sc., Palevol, Paris*, 5: 927-934.
- Trinkaus E., **Moldovan O.**, Milota Ș., Bilgăr A., Sarcina L., Athreya S., Bailey S.E., Rodrigo R., Gherase M., Hilgham T., Bronk Ramsey C., & van der Plicht J. (2003) An early modern human from Peștera cu Oase, Romania. *Proc. Nat. Acad. Sci., U.S.A.*, 100 (20), pp. 11231–11236.
- Trinkaus E., Milota Ș., Rodrigo R., Gherase M., **Moldovan O.** (2003) Early Modern Human Cranial remains from the Peștera cu Oase, Romania. *Journal of Human Evolution*, 45: 245-253.
- Soran V., Biro J., **Moldovan O.**, Ardelean A. (2000) Conservation of biodiversity in Romania, *Biodiversity and Conservation*, 9: 1187-1198.

Papers indexed in other data basis:

- 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.
- Fejér A., **Moldovan O.T.** (2013) Population size and dispersal patterns for a *Drimeotus* (Coleoptera, Leiodidae, 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.
- Rusu M., Banciu H. L., Banciu M., Brad T., **Moldovan O. T.** (2010) Oxidative stress enzymes as biomarkers of heavy metal pollution in interstitial invertebrates. *Studia Universitatis Babeș-Bolyai*, 2: 61-66.
- Fiers F., **Moldovan O.** (2009) Redescription of *Spelaeocamptus spelaeus* (Chappuis, 1925), a subterranean copepod endemic to the Apuseni Mountains in Romania (Copepoda Harpacticoida). *Subterranean Biology*, 7: 51-64.
- Diedrich C., **Moldovan O.**, Constantin S. (2008) Cave bear tracks, scratch marks, hair traces and hibernation nests in the Ursilor Cave (Transylvania, Romania). Preliminary report from a famous European cave bear den. *Stalactite*, 28: 48-52.
- Moldovan O.T.** (2007) Protecția domeniului carstic în România și perspectiva europeană. *Environment & Progress*, 9: 341-346.
- Trinkaus E., Bălțeanu I.C., Constantin S., Gherase M., Horoi V., Milota S., **Moldovan O.**, Petrea C., Quiles J., Rodrigo R., Rougier H., Sarcina L., Soficaru, A., Zilhao, J. (2006) Asupra oamenilor moderni timpurii din Banat: Peștera cu Oase. *Banatica*, 14.
- Moldovan O.**, Jalzic B., Erichsen E. (2004) Diversity of mouthparts in some European representatives of subterranean Cholevidae (Coleoptera). *Natura Croatica*, 13: 1-18.
- Moldovan O.**, Racoviță Gh., Rajka G. (2003) The impact of tourism in Romanian show caves: the example of the beetle populations in the Urșilor Cave of Chișcău (Transylvania, Romania). *Subterranean Biology*, 1: 73-78.
- Moldovan O.** (2003) Sex recognition at the subterranean Leptodirinae (Coleoptera, Cholevidae). II. Biochemical approach and data integration. *Subterranean Biology*, 1: 99-110.
- Moldovan O.**, Milota Ș., Sarcina L., Trinkaus E., Bălțean I., Soficaru A., Rajka G. (2003) The oldest modern humans in Europe. *Theor. Appl. Karst.*, 16: 77-81.
- Moldovan O.**, Iepure S., Rajka G. (2002) Research on groundwater fauna in North Western Romania. *Studia Univ. Babeș-Bolyai, Biol., XLVII*, 1: 15-32, Cluj Napoca.
- Moldovan O.** (2000) Revision de *Drimeotus* s. s. Miller, 1856 (Coleoptera, Cholevidae, Leptodirinae) de Transylvanie (Roumanie), avec description de deux nouvelles especes et cle de determination des taxa, *Zoosystema*, 22: 139-152.
- Moldovan O.**, Juberthie C., Jallon J.-M. (2000) Importance of cuticular hydrocarbons for speciation in the *Speonomus delarouzei* complex (Coleoptera, Cholevidae, Leptodirinae). *Evolution and Adaptation*, Cluj-Napoca, 6: 111-117.
- Buzilă R., **Moldovan O.** (2000) Antennal receptors in two representatives of Leptodirinae (Coleoptera, Cholevidae): diversity and adaptations. *Evolution and Adaptation*, Cluj-Napoca, 6: 117-125.
- Moldovan O.** (2000) *Drimeotus plesai* (Coleoptera, Cholevidae) a new species of Leptodirinae from Transylvania (Romania). *Mem. Biospeol.*, 27: 89-92.
- Moldovan O.**, C. Paredes Bartolome (1998-1999) Fractal analysis of the behaviour of cave beetles (Coleoptera: Cholevidae: Bathysciinae). *Trav. Inst. Speol. .E. Racovitza.*, 37-38: 217-222.
- Racoviță Gh., **Moldovan O.**, Rajka G. (1998-1999) Donneés preliminaires sur l'environnement de la Grotte des Ours en regime d'exploitation touristique. *Theor. Appl. Karst.*, 11-12: 61-75.

- Moldovan O.** (1998) Reconnaissance des sexes chez les coleopteres Bathysciinae souterrains: I. Approche experimentale. *Mem. Biospeol.*, 25: 87-105.
- Moldovan O.** (1998) Sternal gland in the species of *Bathysciola* (Coleoptera, Cholevidae, Bathysciinae). *Mem. Biospeol.*, 25: 107-110.
- Moldovan O.** (1997) *Drimeotus octaviani* (Coleoptera, Catopidae, Bathysciinae), nouvelle espece des Monts Pădurea Craiului (Transylvanie, Roumanie). *Mem. Biospeol.*, 24: 169-174.
- Moldovan O.,** Juberthie C. (1997) Glandular exocrine fields in Bathysciinae (Coleoptera, Catopidae). *Mem. Biospeol.*, 24: 175-180.
- Moldovan O.,** H. Alves, J.-M. Jallon (1996) Donnees preliminaires sur les hydrocarbures cuticulaires chez quelques especes de *Drimeotus* s. str. (Coleoptera, Bathysciinae). *Trav. Inst. Speol "E. Racovitza"*, 35: 107-114.
- Pleșa C., **Moldovan O.,** Munteanu A. (1996) Aperçu biospeologique sur la grotte de Vadu-Crișului (Monts de Pădurea Craiului, Roumanie). *Trav. Inst. Speol. "E. Racovitza"*, 35: 117-145.
- Moldovan O.** (1995) Une nouvelle espece de *Duvalius* (*Duvalidius*) (Coleoptera, Trechinae) du plateau nomme Podișul Someșan. *Mem. Biospeol.*, 22: 145-146.
- Moldovan O.** (1995) Anoftalmia și orientarea animalelor animalelor in lumea subterană (Animal orientation in the underground world). *Naturalia*, 1: 227-233.
- Moldovan O.,** C. Juberthie (1994) Etude comparee et ultrastructurale de la glande sternale de quelques coleopteres Bathysciinae (Coleoptera, Catopidae). *Mem. Biospeol.*, 21: 97-101.
- Moldovan O.** (1989) Revision systematique de l'espece *Pholeuon* (s.str.) *angusticolle* (Coleoptera, Catopidae, Bathysciinae). *Trav. Inst. Speol. .E. Racovitza.*, 28: 29-41.

Books:

- 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.
- Moldovan O.** (1997) *Reconnaissance des sexes et isolement reproductif chez les coleopteres Bathysciinae souterrains: approche taxonomique, biochimique et exp.rimentale*, Teză de Doctorat, Universitatea „Paul Sabatier”, Toulouse, Franța, 130 pp.

Edited volumes:

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Coordinator (Romanian grants):

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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

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

Utilizarea speciilor endemice in biogeografia istorică și delimitarea arealelor carstice de protecție in Carpații de Vest, GAR 81, 2007-2008

Modelarea complexa a transferului poluanților in zona de ecoton epicarstica, CNCSIS IDEI 1150, 2007-2010

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

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

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

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, subproiect coordinator

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

Coordinator (International grants):

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

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

Collaborator (Romanian grants)

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

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

Collaborator (international grants)

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

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