

Curriculum Vitae



BUŞMACHIU GALINA NICOLAE

Date of birth: 04.01.1963

Place of birth: Chişinău, Moldova.

Expertise: Taxonomy, systematics and ecology of Collembola, invertebrates biodiversity, entomology.

Scientific degrees and title

2013 Doctor habilitatus in biology, Institute of Zoology, Academy of Science of Moldova

2002 Associate professor, Institute of Zoology, Academy of Science of Moldova.

1996 PhD. in biology, Institute of Zoology, Academy of Science of Moldova.

STUDIES:

2010 – 2012 Postdoc at the University of AŞM;

1991 – 1994 PhD student in the Institute of Zoology of the ASM;

1986 – 1991 State Agrarian University of Moldova;

1982 – 1984 College of Pediatric Medicine from Leningrad, USSR.

Experience

2020 – present Member of the profile commission of National Agency for Quality Assurance in Education and Research;

2020 – present Head of the committee of experts of National Agency for Quality Assurance in Education and Research;

2018 – 2019 Member of the committee of experts of National Agency for Quality Assurance in Education and Research;

2015 – 2019 President of the profile seminar 165.02 – Zoology;

2018 – present Head of Entomology laboratory, Institute of Zoology;

2014 – 2018 Leader Scientific Researcher, Institute of Zoology, Academy of Science of Moldova;

2001 – 2014 Senior Scientific Researcher, Institute of Zoology, Academy of Science of Moldova;

1997 – 2001 Research Scientist, Institute of Zoology, Academy of Science of Moldova;

1995 – 1997 Expert in zoology, Institute of Zoology, Academy of Science of Moldova;

1991 – 1994 Postgraduate, Institute of Zoology, Academy of Science of Moldova.

SCIENTIFIC NATIONAL AND INTERNATIONAL SCHOLARSHIPS, GRANTS AND PROJECTS:

2020- 2023: Project director within the State Program „EVOLANTER”, Evolutionary changes of the economically important terrestrial fauna, of the rare and protected species in the conditions of anthropic and climatic changes, N. 20.80009.7007.02.

2018: GEF/UNEP Project Support to Produce the Sixth National Report to the Convention on Biological Diversity, expert in invertebrate. Biodiversity Office. Republic of Moldova. Project Code: BAC:M99-11207-32NFL-SB-008720.02.08.

2015 – 2019: Project EU/CoE Joint Programme "Emerald Network of Nature Protection Sites, expert expert in invertebrate. Biosafety Office. Republic of Moldova.

2013 - 2018. Director of bilateral academic exchange project (Moldova - Poland). Collaboration with prof. Wanda Weiner with Institute of Systematics and Evolution of Animals from Krakow.

2017: Individual scientific research project - In memoriam „Mircea Ciuhrii”- fouded by the University of Academy of Science of Moldova.

2014: Invited researcher to ther "Museum National d' Histoire Naturelle de Paris", France. Colaborative research with prof. Louis Deharveng and PhD Anne Bedos.

2010-2012: Bilateral colaborative project AȘM - ANCS (Moldova- Romania) „The importance of forest strips in maintaining the diversity of agrocenosis entomofauna, their role in the protection of useful insects and the numerical regulation of harmful ones in comparative aspect between the Republic of Moldova and Romania”, № 10.820.04.16/RoA.

2010-2011: Director of bilateral colaborative project AȘM-FCFRB (Moldova - Belarus) „Ecological adaptation of insects (Insecta: Collembola, Coleoptera, Lepidoptera) to seasonal changes of environment în the floodplains of Eastern European rivers (as example - Belarus and Moldova)”, № 08.820.10.07/BF.

2010-2012: Director of bilateral academic exchange project (Moldova - Poland) with Institute of Systematics and Evolution of Animals from Krakow. Poland. Collaboration with prof. Wanda Weiner „The study of the specific diversity of the representatives of Tullbergiidae family (Collembola) from the Republic of Moldova”.

2008-2012. Academic exchange program. Species diversity of *Xenylla* from Moldova. Prof. Wanda Weiner. Krakow. Poland.

2011: Invited researcher to "Museum National d' Histoire Naturelle de Paris", France. „Barcoding of collembolan species from the Republic of Moldova”. Colaborative research with prof. Louis Deharveng and PhD Anne Bedos

2008-2009: Director of bilateral collaborative project AȘM-FCFRB (Moldova - Belarus) „Biodiversity of insects in the ecosystems adjacent to rivers in Belarus and Moldova”, № 08.820.08.02/BF.

2007-2009: Director of bilateral academic exchange project (Moldova - Poland) „The study of the species diversity of the representatives of the genus *Xenylla* from the Republic of Moldova”. Collaboration with prof. Wanda Weiner with Institute of Systematics and Evolution of Animals from Krakow..

2006: Invited researcher to "Museum National d' Histoire Naturelle de Paris", France „Species diversity of the representatives of the Neaurinae family from the Republic of Moldova”. Collaborative research with prof. Louis Deharveng.

2006: Invited researcher to "Museum National d' Histoire Naturelle de Paris", France. Franța. Tema „Psamophilous collembolans from the Republic of Moldova”. Collaborative research with prof. Jean-Marc Thibaud.

2005 - 2007: Researcher within the bilateral project AȘM-MRDA-CRDF Moldova - SUA „Biodiversity of Nematoda and Collembola to establish a baseline for environmental assessment and to monitor ecological change in the Danube Delta”, № MOBI –2651 –CS-05.

2005: Individual grant of NATO Science Fellowship from Portugal - „Phylogeny and evolutionary systematic of the species from the genus *Pseudosinella*”. Colaborative research with prof. Maria Manuela da Gama Assalino, Coimbra University, Portugal, GRICEPS № 00607.

2004 – 2005: Researcher within the bilateral project „Ecology and Biodiversity of Nematoda and Collembola in Moldova” INTREU Grants Program from USA.

2002 - 2004: Director of bilateral academic exchange project (Moldova – Poland) „Diversity of Collembola from fluvial ecosystem” . Collaborative research with dr. hab. Maria Sterzynska from „Museum and Institute of Zoology, Polish Academy of Sciences”. Poland.

2003 - 2004: Individual grant of NATO Science Fellowship from Portugal - „Collembola from Moldova. A taxonomic study.” Collaborative research with prof. Maria Manuela da Gama Assalino, Coimbra University, Portugal, GRICEPS № 03676.

2001 - 2002: Individual grant of NATO Science Fellowship from Portugal - „Evolutionary systematics of species from genus *Pseudosinella*”. Collaborative research with prof. Maria Manuela da Gama Assalino, Coimbra University, Portugal, ICCTI № 04795.

2000: Foundation Scholarship Soros– Moldova № 102172 Cod. 140401 K.

2000: Scholarship of the Trustees of the Persy Sladen Memorial Fund of the Linnean Society of London.

Professional honours with dates

2019 - Diploma of honor from the Ministry of Culture, Education and Research.

2014 - Diploma of gratitude for excellent result in Moldo - Polish cooperation awarded by Academy of Sciences of Moldova.

2013 - Diploma II degree at the competition "Excellent habilitatus thesis for 2012 year" of the Academy of Sciences of Moldova".

Publications: author and co-author of 140 publications: 3 monographs; 1 brochure, 12 articles with impact factor; 3 synthesis articles in international journals; 28 articles in foreign journals category B +; 8 articles in category B journals in the country, 10 articles in category C journals in the country, 22 articles in collections, etc.

Collections: Holotypes and paratypes of new species for science, specimens of rare species were stored in the collections of several museums:

Museum of the Institute of Zoology of the ASM, Chisinau, **R. Moldova;**

„Instytut Systematyki i Ewolucji Zwierząt PAN, Kraków”, **Polonia;**

„Musée de Zoologie de l'Université de Coimbra”, **Portugalia;**

„Muséum d'Histoire naturelle de Genève”, **Elveția;**

„Staatliches Museum für Naturkunde Görlitz”, **Germania;**

„State Museum of Natural History, Lviv”, **Ucraina;**

„Department of Biodiversity and Evolutionary Taxonomy, Zoological Institute, Wrocław”, **Polonia;**

„Muséum National d'Histoire Naturelle” Paris, **Franța;**

„Natural History Museum from London”, „Departament of Entomology” cîrful colecției BMNH (E), № 2001 – 106; **Marea Britanie,**

„Museum of biodiversity, University of Guelph, Biodiversity Institute of Ontario”, **Canada;**

„Schmalhausen Institute of Zoology, National Academy of Sciences, Ukraine”, **Kiev, Ucraina;**

„Departamento de Biología Animal, Universitat de Barcelona”, **Spania.**

Implementation of scientific results at international level:

„FAUNA EUROPAEA”, „LIVING NATIONAL TREASURE”, „BOLD SYSTEM”; are included in the monographs and the reports of the "Codrii" and "Plaiul Fagului" Reserves; the report of the Academy of Sciences to the Government of the Republic of Moldova for 2010.

The results of the research are approved and accepted nationally and internationally being included in the sites:

<http://www.geocities.com/fransjanssens/doc/experts.htm>;

<http://www.boldsystems.org/index.php>;

http://www.faunaeur.org/taxon_tree;

<http://Intreasures.com/sources.html>;

<http://www.collembola.org/taxa/neanurinae.htm>, etc.

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THE MOST REMARKABLE RESULTS:

TAXONOMY:

Fourteen new species for science from were described: *Pseudosinella moldavica* Gama, Buşmachi, 2002; *P. simpatica* Gama, Buşmachi, 2002; *P. codri* Gama, Buşmachi, 2002, *P. ioni* Gama, Buşmachi, 2002; *P. larisae* Gama, Buşmachi, 2002; *P. gruiiae* Gama, Buşmachi, 2002; *P. variabilis* Gama, Buşmachi, 2004; *P. pygmaea* Gama, Buşmachi 2004; *Neanura moldavica* Buşmachi, Deharveng, 2008; *Xenylla andrzeji* Buşmachi, Weiner, 2008; *Lathriopyga nistru* Buşmachi, Deharveng, Weiner, 2010; *Micraptorura gamae* Buşmachi, Weiner, 2013; *Hymenaphorura ioni* Buşmachi, Popa, Weiner, 2014; *Pygmarhopalites prutensis* Vargovitch, Buşmachi 2015.

MOLECULAR BIOLOGY:

More than 60 species of Collembola from the Republic of Moldova were deposited in the GenBank World Bank in Canada, including species described as new for sciences: *Neanura moldavica*, *Lathriopyga distru* and *Pseudosinella moldavica*.

Mitochondrial sequencing of the cryptic species *Parisotoma notabilis* in the collaboration with colleagues from 12 countries from Europe, Asia and Canada that confirm of the presence of four separate evolutionary lines existing in the Palearctica was done.