

CURRICULUM VITAE



First Name, Last Name: Ion TODERAȘ

Place and date of birth: Logănești village, Hâncești County, Moldova, August 17, 1948

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Position at the time of CV completion:

- Honorary Director of the Institute of Zoology
- Head of the Biological Invasion Research Center of the Institute of Zoology

Education:

- Moldova State University, Faculty of Biology and Soil Sciences, 1966 - 1971.
- Doctoral studies, Institute of Zoology and Physiology, Academy of Sciences of Moldova, 1972 - 1976.
- Postdoctoral studies, Institute of Zoology of the Academy of Sciences of Russia, Leningrad, 1986 - 1987.

Specializations:

- University of Riverside (USA, California), Ecological Education, 2000, 2006.
- University of Paris–VII, Paris, 1995.
- US Agency for International Development, Environment Management Courses (funded by USAID) in România, 1994.
- Institute of Zoology in Minsk, Belarus, Limnology, 1982.
- Institute of Zoology in Sankt–Petersburg, Russian Federation, Zoology and Functional Ecology, 1981.
- “M. Lomonosov” Moscow State University, Taxonomy and Hydrobiology, 1980.

Scientific Degrees:

- *Doctor Habilitated in Biology*, awarded by the Institute of Zoology of the Russian Academy of Sciences, Sankt-Petersburg, 1991.
- *PhD (in Biology)*, awarded by the Odessa State University, 1979.

Academic titles:

- Academician of the Academy of Sciences of Moldova, 2007.
- Corresponding Member of the Academy of Sciences of Moldova, 2000.
- University Professor, 1991.

Honorary Titles:

- Honorary Member of the Romanian Academy, 2016.
- Doctor Honoris Causa of the Tiraspol State University (based in Chisinau), 2016.
- Doctor *Magna cum Laude* of the Moldova State University, 1993.

Head Positions

- Honorary Director of the Institute of Zoology, 2019 – present
- Director of the Institute of Zoology, 1993-2006, 2009 – 2018.
- Academician-Coordinator of the Section of Biological, Chemical and Ecological Sciences, Academy of Sciences of Moldova (2004 - 2006).

Executive positions

- Member of the College of the Ministry of Ecology and Natural Resources, 2008.
- Member of the Supreme Council for Science and Technological Development of the Academy of Sciences of Moldova (2004-2008).
- Chairman of the Scientific Council of the Institute of Zoology, 1999.
- Chairman of Specialized Scientific Councils of the Institute of Zoology for the Defense of Doctoral Theses, 1999.

Teaching positions

- University Professor (since 1991)
- Head of Department, Faculty of Biology and Soil Sciences, Moldova State University, 1988 – 2006.

Research Fields:

Zoology; Hydrobiology; Functional Ecology.

The Research Program included in the UNESCO Program, Project 8 “b”.

(Confirmation No. 10320 of 22.II.1978, signed by Acad. V.E. Sokolov, Russian Academy of Sciences).

Author of a new research field:

- Eco-Physiological Biogeochemistry of Poikilothermic Animals, 2000.

Scientific works:

- 590, including:
 - 110 papers in Peer-reviewed Journals
 - 25 Monographs, including one edited within the UNESCO Program “Man and Biosphere” (co-authored), 2009.
- 25 Books, Textbooks, and Course materials.

Innovative Activities:

- 46 patents (including co-authored).
- 5 Innovations (the *Apispir* Vegetarian Product obtained as a Bio-stimulatory Remedy for the Prolificacy and Productivity of Bee Families, implemented in Collaboration with the Institute of Microbiology and Biotechnology of the Academy of Sciences of Moldova), 2000.
- 10 Innovations implemented in Aquaculture and Fish farming, 2000.

Teaching Activities:

- Professor at the Faculty of Biology and Soil Sciences of the Moldova State University, 1991 – present.
- Author of 12 Normative Courses, Special Courses and Seminars, held for undergraduate and graduate Students, including: Zoology of Invertebrates; Hydrobiology, Productivity of Terrestrial and Aquatic Ecosystems; Informatics and Computing Technique in Biology; Hydrochemistry (1999, 2000).

Co-author of:

- Monograph "Man and Biosphere", published within the UNESCO Program, 2009.
- "Zoology of Invertebrates" (A Field Practice Guide for Biology Faculty Students (in Romanian), 2005).
- Analytical Program of Zoology for High Schools, 2000 (in Romanian).
- Textbooks: "Cryobiology", "Zoology with Elements of Ecology", "Ecology of Aquatic Microorganisms", and "Histology", 2000 (in Romanian).
- Information System for Testing the Knowledge of Students in Biology, Botany, and Zoology, 2000 (in Romanian).

Supervisor of Bachelors, Postgraduates, and Doctoral Students:

- 10 Doctors Habilitated, including 2 Laureates of the National Contest "Doctoral Thesis of Excellence" (1999 – present)
- 47 PhD (from Moldova and abroad), including one Laureate of the National Contest "PhD Thesis of Excellence" (1999 – present).
- 110 Bachelors and Postgraduates in the field of Zoology and Hydrobiology, 30 of which have successfully passed the Admission to Doctoral Studies in Moldova and abroad.

Positions in National Organizations:

- Vice-President of the National Book Commission: Red Book of the Republic of Moldova, 3rd Edition, Chişinău: Ştiinţa, 2015, ISBN 978-9975-67-985-5.
- Head of the Biological Invasions Research Center, 2007 - present.
- President of the Society of Hydro-Biologists and Ichthyologists of Moldova, 2000-present.
- President of the Society of Hydro-Biologists and Ichthyologists of Moldova, 1999 - present.
- President of "J. Cousteau" Center for Ecological Education of Moldova, 2008.
- Vice-President of the National Committee "Red Book" of the Republic of Moldova, 2008.
- Member of the Supreme Council for Science and Technological Development of the Academy of Sciences of Moldova, 2004-2008.
- Coordinating Academician of the Department of Biological, Chemical and Ecological Sciences, Academy of Sciences of Moldova, 2004 - 2006.
- Member of the Commission for Ecological Security of the Republic of Moldova, 2003.
- Member of the Commission of Experts in Animal and Human Biology of the National Council for Attestation and Accreditation, 2000.
- President of the Scientific Council of the Institute of Zoology, 1999.
- President of Specialized Scientific Councils of the Institute of Zoology, empowered with the right to organize the Defense of Doctoral Theses, 1999.
- President of the Hydro-Biological and Ichthyologic Society of Moldova "ARGONAUT", 1995.

Positions in International Organizations:

- President of the UNESCO National Council "Man and Biosphere" of Moldova, 2010-present.
- Member of the "Eco-Physiology" Group of the International Association of Danube Countries, 2005.
- President of the UNESCO National Committee "Man and Biosphere", Moldova, 2003.

Founder and Co-Founder:

- Center for Research on Biological Invasions, Institute of Zoology, 2007.
- General and Molecular Biology Research Center, Institute of Zoology, 2007.
- The new Research Field – Eco-Physiological Biogeochemistry of Poikilothermic Animals, 2000.
- "Argonaut" Creative Group within the Faculty of Biology and Soil Sciences of Moldova State University, 1998.

- Co-Founder of the School of Hydrobiology, Ichthyology and Zoology, founded by acad. Mikhail Iaroşenko, 1995.

Academic Awards:

- Medal “Nicolae Miclesu Spătaru”, awarded by the Academy of Sciences, 2016.
- Nominal Award "Boris Melnic" of the Supreme Council for Science and Technological Development of the Academy of Sciences of Moldova, 2016.
- Diploma "MERITUL ACADEMIC", awarded by the Academy of Sciences of Moldova to Toderaş Ion, as a high appreciation and deep gratitude for outstanding results obtained during over 40 years of research activity as the founder of an academic school in the field of Eco-Physiological Biogeochemistry of Animals, and for the organization of science and training of highly qualified research staff. August 17, 2013.
- Medal “Dimitrie Cantemir”, awarded by the Academy of Sciences of Moldova, 2008.
- Jubilee Medal “70 years since the founding of the first research institutions in Moldova as the basis for the founding the Academy of Sciences of Moldova”, 2016.
- "Inventor of the Year" in the National Competition for Science and Innovation Support "Econom-2007" organized by the Savings Bank and the Supreme Council for Science and Technological Development of the ASM in 2007.
- 1st Prize of the Academy of Sciences of Moldova awarded to young researchers for contributions to the research of the functional ecology of Hyronomide populations, 1980.
- 1st Prize of the USSR Academy of Sciences awarded to young scientists in the field of Hydrobiology, Ichthyology and related disciplines for the work "The Energy Balance of Larvae of Hyronomides", 1979.

National Awards:

- Honorary Title and Medal “Om Emerit” (“Emeritus Man”), awarded by the Decree of the President of Moldova No. 1058-VII of March 26, 2014.
- Laureate of the 2013 National Prize for the Research Works “Diversity, Protection and Capitalization of the Animal World”, including 4 Volumes of the Series “Animal world”, “Zoological Atlas”, and “Fisherman's Book”.
- Honorary Diploma of the Parliament of the Republic of Moldova, 2007.
- 1st Degree Diploma of the Government of Moldova, 2007.

International Awards:

- The Innovation and Commander's Cross Award by the High Commission for Inventions and outstanding Achievements in Innovation, Brussels, 2018.
- Medal of the University of Versailles St-Quentin-en-Yvelines, France, 2016.
- Diploma of the “Al.-I. Cuza” University of Iaşi, Romania, awarded for the fruitful Collaboration during 25 years, 2016.
- Diploma of the Romanian Academy, awarding the title *Honorary Member of the Romanian Academy* to Ion Toderaş, November 4, 2016.
- Diploma and Medal of Commander, awarded to Prof. Dr. Ion Toderaş by the High Commission of Invention Awards. Brussels, November 20, 2015. (European Innovation Awards). Number of the Cross 15118,
- Gold Medal - “Eminent Services to the Cause of Progress” (ICEPEC-Brussels), 2015.
- Commander of the Order "Merit of Invention" (Belgium), 2014.
- WIPO Gold Medal, awarded for founding a new Research Field "Eco-Physiological Biogeochemistry of Animals", 2014.
- CHARTE Diploma and Medal - For contributing to the Stimulation, Development and Promotion of Creativity at “Brussels Innova / Eureka” Brussels-2013.
- Diploma and Medal “HENRY COANDĂ”, 1st degree, for Special Merits in Innovative Creativity, 2013.

Editorial Activity:

- Member of the Scientific Council of the Magazine of the Cultural-Scientific Association “DIMITRIE GHICA - COMANEȘTI”, Bucharest, Romania. ISSN 2285 - 4878, ISSN - L 2285 - 4878 (academician Ion Toderaș), 2019.
- Member of the Academic Council. STUDIA UNIVERSITATIS MOLDAVIAE (2015-present). "Real and Natural Sciences" series. ISSN 1814-3237. ISSN online 1857-498X. (Academician Ion TODERAȘ). <http://studiamsu.eu/stiinte-ale-naturii/>, 2015-present
- Member of the Editorial Board of the 3rd Edition “Red Book of the Republic of Moldova”, Chisinau, 2015, ISBN 978-9975-67-985-5. Coordinator of Animals Department.
- Member of the Editorial Board of the scientific journal of education, spiritual and ecological culture "Noosphere", 2014. ISSN 1857-3517. http://www.uspee.md/images/materiale29.03.14/publicatii_drept/noosfera/Noosfera_10.pdf;
- Editor-in-Chief of the VIII International Conference of Zoologists. Current problems of protection and sustainable use of the animal world diversity, 10-12 October, 2013, Chisinau. UDC 59/599: 502.74 (082). ISBN 978-9975-66-361-8.
- Member of the Editorial Board of the magazine "Akademos", 2011.
- Member of the Editorial Board of the National Collection "Scientific Reserves of the Republic of Moldova", 2010.
- Member of the Editorial Board of the magazine "Environment", 2010.
- Deputy Editor-in-Chief of the editorial board of the reviewed journal “Bulletin of the Academy of Sciences of Moldova. Life sciences”. ISSN 1857-064X, Category B, 2010.
- Editor-in-chief in the editorial staff "Zoology" of the reviewed journal "Bulletin of the Academy of Sciences of Moldova. Life sciences”. ISSN 1857-064X, Category B, 2010.
- Member of the National Committee for Editing the Collection "Vegetable World and Animal World of Moldova", 2010
- Member of the Editorial Board of the International Journal "Hydrobiology", Kiev, 2000.
- Member of the Editorial Board of the periodical collection Ecological Studies, Hazards, Solutions, 2000.

Participation in International Conferences and Symposiums

- Chairman of the Organizing Committee of IV to IX Conferences of Zoologists of Moldova (with international participation), 2000 – present.
- Member of the Scientific Committee. International Symposium “Current Problems of Zoology and Parasitology: Achievements and Perspectives”, dedicated to the 100th Anniversary of the Academician Alexei SPASSKY, one of the Founders of the Academy of Sciences of Moldova, October 13, 2017, Chisinau.
- Member of the Scientific Committee. International Zoological Congress of “Grigore Antipa” National Museum of Natural History, Bucharest, Romania. November 21-24, 2018; November 22-25, 2017; November 16-19, 2016; November 18-21, 2015; November 19-22, 2014. November 20-23, 2013; November 21-23, 2012; November 17-19, 2010; ISSN: 2457-9777, ISSN-L: 2457-9769
- Member of the International Scientific Committee of the VIII International Conference of Zoologists. Current Problems of Protection and Sustainable Use of the Animal World Diversity, October 10-12, 2013, Chisinau. UDC 59/599: 502.74 (082). ISBN 978-9975-66-361-8.
- Member of the Scientific College. Management of the Dniester Cross-Border Basin under the New Basin Agreement. Materials of the International Conference, September 20-21, 2013, Chisinau. C.Z.U. 556.53: 504 453 (082). ISBN 978-9975-66-353-3.
- Member of Jury. International Specialized Exhibition "INFOINVENT-2013", November 19-22, 2013, Chisinau.

- Member of the Scientific Committee. International Scientific Session "The Human Impact on the Biodiversity in the Black Sea Area", October 21-22, 2011, Constanța, Romania.
- Member of the Scientific Committee. International Conference of Zoologists dedicated to the 50th anniversary of the Institute of Zoology of the ASM. October 13-15, 2011, Chisinau.
- Member of the Scientific Committee. International Conference "Scientific achievements of the Reservation in 40 years of activity" September 29-30, 2011, Lozova, Moldova.
- Member of the Scientific Committee. International scientific and practical conference. Tiraspol, October 15-16, 2010. Dniester River Basin: Environmental Issues and Trans-boundary Management.
- Member of the Scientific Committee. 4th International Scientific Conference dedicated to the memory of Professor G.G. Vineberg. October 11-15, 2010, Russia, St. Petersburg.
- Representative of Moldova at the UNESCO Symposium on Environmental Policies and Education for Sustainable Development in the Black Sea Region (Bucharest, Romania), 2008.
- Representative of Moldova at the Pan-European Meeting of the RAMSAR International Convention (Varna, Bulgaria), 2008.
- Member of the Organizing Committee of the International Symposium on Ecological Chemistry, 2007.
- Chairman of the Organizing Committee of Zoology Conference with International Participation "Preserving and Exploiting the Diversity of the Animal World", 1995 - 2004; 2006-2007.

Participation in National Projects

- Director of National Project: 20.80009.7007.12 "Diversity of Hemato-Phagous Arthropods, Zoo- and Phyto-Helminthes, Vulnerability, Strategies for Tolerating Climatic Factors and Development of Innovative Procedures for Integrated Control of Species of Socio-Economic Interest" (2020-2023).
- Scientific Consultant in the Research Project for Young Researchers: 18.80012.80.15A "Taxonomic Identification, Molecular Detection and Surveillance of new Diseases, Transmitted to Humans and Animals by Hematophagous Insects from the Fauna of the Republic of Moldova" (2018-2019).
- Scientific Consultant in the Project within the State Programs 18.51.07.08A / PS "Monitoring System for the Quality of Fishery Products to Ensure Food Security of the Republic of Moldova" (2018-2019).
- Director of the National Project: 17.80013.5107.12 / 6233 STCU (no.12 / 6233 STCU of 30.06.17) "Development and Application of Agro-ecological Processes in Sustainable Management of Harmful Insects for the Production of Healthy Tomatoes" (2017-2019).
- Director of the National Project: 15.817.02.12F "Diversity, Structure and Functioning of Natural and Anthropogenic Fauna Complexes in the Context of Strengthening the National Security Strategy of the Republic of Moldova" (2015-2019).
- Project Leader in the Competition Call for "Modernization of Research Infrastructure to Facilitate Participation in European Programs" for the Years 2017-2018.
- RESINFRA. "Modernization of the Infrastructure of Biological Invasions Research Center in the Field of Bio-Banking and Genetic Barcoding of Biodiversity" (2017-2018).
- Scientific Consultant in the National Project 15.817.02.27A "Determining the Structure, Functioning, Tolerance of Hydro-bion Communities and Development of Scientific Principles of Aquatic Ecosystem Bio-Productivity Management" (2015-2018).
- Director of the National IPMD-GROW Project: "Strengthening the Capacities of the Biological Invasions Research Center in the Field of IPM through Connection to the European Research Infrastructure" (2015-2016).

- Project Leader of the Project 4 / 2244-3169 Evaluation of the Status of Animal Species and Development of Rarity Criteria for the Purpose of Updating the Red List - Stage II. Funded by the Ecological Fund of the Ministry of Environment (2014).
- Director of the National Project 11.817.08.13F "Biological Invasions and their Impact on the Diversity, Structure and Functioning of Natural and man-made Ecosystems in the Republic of Moldova" (2011-2014).
- Scientific Consultant in the National Project 11.817.08.15A "Assessment of the Diversity, Features of Ecological Successions and Development of the Methodology of Integrated Monitoring of Aquatic Ecosystems in the Context of European Directives" (2011-2014).
- Manager of the Project "Diversity of Nematodes in Moldova", funded by the US National Academy, 2005. CRDF Award # MOB1-2651-CS-05 (2005-2007).
- Co-Director of the Distance Ecological Education Project, 2005.
- Scientific Coordinator of the Animal Biology Section at the Scientific Conferences in Moldova State University (1989-1995).

Participation in International Projects:

- BSB27 „Black Sea Basin Interdisciplinary Cooperation Network for Sustainable Joint Monitoring of Environmental Toxicants Migration, Improved Evaluation of the Ecological Status and Human Health Impact of Harmful Substances, and Public Exposure Prevention - MONITOX” (2019-2020).
- BSB165 „Creating a System of Innovative Trans-Boundary Monitoring of Transformations of the Black Sea River Ecosystems under the Impact of the Hydro-Power Development and the Climate Change - HydroEcoNex” (2019-2020).
- Director of the Project ASM - STCU: 17.80013.5107.121 "Development and Application of Agro-Ecological Processes in the Sustainable Management of Harmful Insects for the Production of Healthy Tomatoes" (2017-2018).
- Director of the International Project (Bilateral Collaboration Program between the Academy of Sciences of Moldova and the National Research Council of Italy (CNCI)) 15.820.18.05.07 / IT “Agrotechnological and Biotechnological Control over Invasive Cyst-forming Nematodes in the Republic of Moldova and Italy" (2015-2016).
- Scientific Consultant in the Bilateral Project STCU-ASM: 14.820.18.05.01 STCU.A/5948 “Adaptation of Biological Methods in the Protection of Vegetable Plants against Dangerous Parasitic Phyto-Nematodes and other Phyto-Pathogenic Diseases in the Protected Area of the Republic of Moldova” (2014-2015).
- Scientific Consultant in the Bilateral Project: Academy of Science of Moldova - Ukraine: 14.820.18.02.01/U “Development of the Principles of Complex Hydro-Biological Monitoring of Technological Ecosystems of Energy Enterprises, EQUAENERGO” (2014-2015).
- Director of the International Project 1/2/193 Resources Pilot Center for Cross-border Preservation of the Aquatic Biodiversity of the Prut River MIS ETC 1150 / MIS ETC 1150 “Pilot Resource Center for the Trans-boundary Preservation of the Aquatic Biodiversity of the Prut River” (2014- 2015).
- Scientific Consultant in the International Project: MIS ETC 1676 “Cross-Border Interdisciplinary Cooperation for Preventing the Natural Disasters and Reducing the Environment Pollution in the Lower Danube Euro-Region” (2014-2015).
- Scientific Consultant in the Project: 13.820.08.02/ItF “Real Ways of Applying Biologically Active Substances in order to Reduce the Damage of Meloidogyne to Horticultural Crops on Protected Lands in Italy and Republic of Moldova” (2014).
- Director of the International Project "Molecular Characteristics of Entomo-Pathogenic Fungi and their Role in Biological Control of Ixodid Ticks", funded by the CSSDT and the German Federal Ministry of Education and Research (BMBF), 2009.
- Scientific Consultant in the International Project "Interrelationships within the System Migratory Birds - Ixodid Ticks and their Role in the Formation of Infections in Natural

Outbreaks in North-Western Russia and Moldova", funded by the CSSDT and the Fund for Basic Research of Russia, 2008.

- Director of the International Project "Biodiversity of Hyphomycetes and Microsporidia (ACARINA, IXODIDAE), Pathogenicity and Spread on the Territory of Russia and Republic of Moldova", funded by the CSSDT and the Fund for Basic Research of Russia, 2007.

- Director of the International Project for the Purchase of Equipment 1 000 000 MDL, 2007.

- Responsible for the Research Program of the Institute of Zoology in the International Organization IWRB (TACIS Support for Moldova, et al.), 2003.

- Project co-Director of the Partnership between Moldova State University and the University of California Riverside "Development of Environmental Education in Moldova" 1999-2003.

- Executive Director of the INCO-COPERNICUS Project (1999-2002) "Quality Monitoring & Quality Assurance of Freshwater and Seawater Aquaculture Fish".

Foreign languages: Russian - excellent, French - speaking fluently, English - translation with dictionary.

Academician Ion TODERAȘ

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