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## Professional experience

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Period, position, address            | 01.2026 prezent, coordinating scientific researcher, IMB, 3/3 Academiei Street, 2028MD; Chişinău, R.Moldova, <a href="http://www.imb.asm.md">www.imb.asm.md</a>                                                                                                                                                                                                                                                                                                                                                                   |
| Period, position, address            | 01. 2023 – 12.2025, Head of Laboratory (CNMN), coordinating scientific researcher, IMB of Technical University of Moldova, 1 Academiei Street, 2028MD; Chişinău, R. Moldova,<br>The elaboration of the projects of the annual and perspective work programs and the presentation of the annual reports, realizes the scientific leadership in research.<br>Study of microbial biodiversity of water basins, Isolation in pure culture of different groups of microorganisms of biotechnological interest, study and conservation. |
| Period, position, address            | 02. 2019 – 12.2022, Head of Laboratory (CNMN), coordinating scientific researcher, IMB, 1 Academiei Street, 2028MD; Chişinău, R.Moldova, <a href="http://www.imb.asm.md">www.imb.asm.md</a>                                                                                                                                                                                                                                                                                                                                       |
| Main activities and responsibilities | The elaboration of the projects of the annual and perspective work programs and the presentation of the annual reports, realizes the scientific leadership in research.<br>Study of microbial biodiversity of water basins, Isolation in pure culture of different groups of microorganisms of biotechnological interest, study and conservation.                                                                                                                                                                                 |
| Period, position, address            | 01.2014 –01.2019, coordinating scientific researcher IMB, Str. Academiei 1, 2028 MD, Chişinău, R. Moldova, <a href="http://www.imb.asm.md">www.imb.asm.md</a>                                                                                                                                                                                                                                                                                                                                                                     |
| Main activities and responsibilities | Isolation, study and selection of micromycetes for bioremediation of soil contaminated with persistent organic pollutants. Studying the nanotechnological potential in bioremediation of soil contaminated with persistent organic pollutants<br>Development of processes for the conservation of microorganisms based on nanoparticles and bioactive substances of microbial origin.                                                                                                                                             |
| Period, position, address            | 07. 2006 – 12.2013 ,Coordinating scientific researcher, IMB, Str. Academiei 1, 2028 MD, Chişinău, R. Moldova, <a href="http://www.imb.asm.md">www.imb.asm.md</a>                                                                                                                                                                                                                                                                                                                                                                  |
| Main activities and responsibilities | Isolation, study and selection of micromycetes with antimicrobial and phytostimulating properties for organic farming. Research on the long - term conservation and preservation of microorganisms.                                                                                                                                                                                                                                                                                                                               |
| Period, position, address            | 12.2004 -06.2006,Senior scientific researcher, 10.2003 – 11.2004, Trainee scientific researcher, CNMN, Str. Academiei 1, 2028 MD, Chişinău, Moldova                                                                                                                                                                                                                                                                                                                                                                               |
| Main activities and responsibilities | Isolation, study and completion of CNMN with strains of microorganisms of biotechnological interest. Development of procedures for the conservation and preservation of microorganisms.                                                                                                                                                                                                                                                                                                                                           |

Period, position, address 01.1993 - 12. 2001, biotechnologist specialist, 01. 2002 – 11 2004, Trainee scientific researcher, IMB, Str. Academiei 1, 2028 MD, Chişinău, R. Moldova,

Main activities and responsibilities Research on the enzymatic activity of mycelial fungi (amylase, lipase, cellulase, pectinase, etc.).

Period, position, address 09.1991-12.1993, engineer, category 1 within the Branch of the USSR Institute of Moldova “Ohranaprirodîzapovednogodelo”, Chisinau.

Main activities and responsibilities Study of the action of persistent organic pollutants on food, soil and water.

Period, position, address 08.1987- 08. 1991, senior agronomist, „Moldselihozhimia”, t. Hînceşti

Main activities Coordinating experiments in the laboratory to determine the quality of agricultural products, water, soil and chemical fertilizers.

## Education and Training

Period, Qualification / diploma obtained 11. 2001 – 11. 2003. Competitor within the Institute of Microbiology of the ASM  
12. 2004 - Doctor of Biology, specializing in Microbiology  
01. 2009 – Research Associate, Microbiology

The main disciplines studied / acquired professional competencies Microbiology, Methodology of knowledge, French language, computer science

Period, institution, address 09. 1982 – 06. 1987.State University of Moldova, Faculty of Biology and Pedology, Chisinau, RM, Higher diploma, Pedology, pedologist

Qualification / diploma obtained

The main disciplines studied / acquired professional competencies *General courses:* pedology, mineralogy, geology, geodesy, soil physics, microbiology, plant physiology, botany, biochemistry, analytical chemistry, inorganic chemistry, organic chemistry, physical and colloidal chemistry, ecology, philosophy, history, higher mathematics, physics, ethics.  
*Special courses:* soil microbiology, mathematical methods in biology.

Native language Romanian

| Self-evaluation<br>European level(*) | Understanding |         | Speaking              |             | Writing            |
|--------------------------------------|---------------|---------|-----------------------|-------------|--------------------|
|                                      | Listening     | Reading | Join the conversation | Oral speech | Written expression |
| English                              | A2            | A2      | A1                    | A1          | A1                 |
| French                               | A2            | A2      | A2                    | A2          | A2                 |
| Russian                              | C2            | C2      | C2                    | C2          | C2                 |

(\*)Level of the Common European Framework of Reference for Languages

Social skills and competences Team spirit, achieved through work in several research projects; Good communication skills; Ability to adapt to multicultural environments as a result of working on international projects.

Organisational skills and competences Experience in the management of national and international projects obtained during the realization of different types of research projects.

Technical skills and competences Knowledge of working with laboratory equipment: microscopy, lyophilization techniques, spectrometry, UV vis - 60. Knowledge acquired during the professional activity.

Computer skills and competences User of usual programs and software related to the laboratory equipment. The skills were acquired during the professional activity.

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|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Other information</b>            | Supervisor of 2 bachelor's theses, 2 master's theses, 2 doctoral theses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Field of scientific activity</b> | 163.04 Microbiology. Study of microbial biodiversity (isolation, selection, testing) from soil, water, air, etc.; study of the antimicrobial, enzymatic and phytostimulatory potential of isolated microorganisms; study of methods for stimulating the biosynthetic processes of microorganisms. Preservation of microorganisms by lyophilization, development of protective and regeneration media and optimization of lyophilization and long-term storage conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Published scientific papers</b>  | Over 200 scientific publications, of which in the last 10 years (2015-2025) - 120 publications, including: <ul style="list-style-type: none"> <li>• Chapters in monographs: 1;</li> <li>• Articles in journals from the WeB of Science and Scopus databases: 14;</li> <li>• Articles in recognized foreign journals: 12;</li> <li>• Articles in journals from the National Register, category A: 1</li> <li>• Articles in journals from the National Register, category B: 12;</li> <li>• Articles in proceedings of international scientific conferences (abroad): 20;</li> <li>• Articles in proceedings of international scientific conferences (R. Moldova): 15;</li> <li>• Articles in proceedings of national scientific conferences with international participation: 8;</li> <li>• Theses in proceedings of international scientific conferences (abroad): 7;</li> <li>• Theses in the proceedings of international scientific conferences (R. Moldova): 15;</li> <li>• Theses in the proceedings of national scientific conferences with international participation (R. Moldova): 20;</li> <li>• Patents: 17;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Projects</b>                     | <p><b>National</b></p> <p><b>06.411.017.</b> Valorization and conservation of microbial resources through classical and modern competitive biotechnologies (2006-2010, executor)</p> <p><b>06.407.022F.</b> Development of environment ally friendly means based on useful microorganisms and biologically active substances for the control of harmful organisms in agroecosystems (2006 – 2010, executor)</p> <p><b>11.817.04.11A.</b> Evaluation and capitalization of the microbiological potential for the development of sustainable agriculture technologies. (2011-2014, executor).<br/> <a href="https://expert.idsi.md/ro/view_project?proj_id=1988">https://expert.idsi.md/ro/view_project?proj_id=1988</a></p> <p><b>15.817.05.17A.</b> The nanotechnological potential in bioremediation of soil contaminated with persistent organic pollutants (2015-2019, executor). <a href="https://www.ancd.gov.md/ro/content/institutionale-2015-2018">https://www.ancd.gov.md/ro/content/institutionale-2015-2018</a></p> <p><b>20.80009.7007.09"</b> Conservation and use of microbial biodiversity as a support for the development of sustainable technologies and agriculture, integration of science and education" (2020 – 2023, Project manager). <a href="https://ancd.gov.md/ro/content/program-de-stat-2020-2023">https://ancd.gov.md/ro/content/program-de-stat-2020-2023</a></p> <p><b>21.70105.38SD</b> „Consolidation of the National Collection of Non-Pathogenic Microorganisms (CNMN) by adopting the practices of open science regarding scientific data” (2021-2022, executor).</p> <p><b>020101 InBioS,</b> „Innovative biotechnological solutions for agriculture, medicine and environment” (2024-2027, executor).<br/> <a href="https://mec.gov.md/sites/default/files/lista_programe-subprograme_-_2024.pdf">https://mec.gov.md/sites/default/files/lista_programe-subprograme_-_2024.pdf</a></p> <p><b>25.80012.7007.32SE</b> Innovative protective media for the conservation of aquatic microorganisms. (2025 - 2026, Project manager).</p> <p><b>Moldovan-Belarusian bilateral project</b></p> <p><b>08.820.09.05 BF.</b> Effectors of catalase synthesis as regulators of fungal biosynthetic activity - enzyme producers. (2008-2009, Project manager).</p> |

**Distinctions**

Diploma of the Academy of Sciences of Moldova for excellent research results Chisinau, (2021);

- Diploma of Honor of the Ministry of Education and Research of the Republic of Moldova for performance in scientific activity (2022).

- Diploma of Merit of the Technical University of Moldova for performance in scientific activity (2024).

Diploma of Merit of the National Agency for Quality Assurance in Education and Research for the scientific coordination of the doctoral thesis of excellence of the second degree (2026)

22 medals (period 2021-2025) at international Inventions and Innovation exhibitions (EUROINVENT, Iași, Romania; INVENTICA, Iași, Romania; PROINVENT, Cluj Napoca, Romania; InventCor, Deva, Romania; International Invention and Innovative Entrepreneurship Exhibition, Chișinău, Republic of Moldova), 12 gold medals, 7 silver medals, 3 bronze medals

**Affiliations**

Member of the European Federation of Microbiological Societies

26.05.2026