

PERSONAL INFORMATION



📍 1, Academiei str. 2009 Chişinău, Republic of Moldova
☎ + 373 725754 📠 +373 79556350
✉ svetlana.codreanu@imb.utm.md, codreanu.svetlana@gmail.com

Date of birth 07/07/1967 | Citizenship: Republic of Moldova
Researcher Unique Identifier(S): ORCID ID: 0000-0002-6744-6352;
UEF-iD: U-2400-071V-7777; IBN: https://ibn.idsi.md/ro/author_articles/4287

SVETLANA CODREANU
Ph. Doctor in Biology, Associate Research Professor

WORK EXPERIENCE

January 2026 -
Present

Head of Laboratory

National Collection of Non pathogenic Microorganisms, Institute of Microbiology and Biotechnology, Technical University of Moldova, 3/3 Academy Str., Chisinau 2028, Republic of Moldova, <https://imb.utm.md/>

- Management of the National Collection, including scientific projects, coordination of 13 staff.

September 2024 –
December 2025

Senior Researcher

Laboratory of Phycobiotechnology, Institute of Microbiology and Biotechnology, Technical University of Moldova, 3/3 Academy Str., Chisinau 2028, Republic of Moldova, <https://imb.utm.md/>

- Project design and management, team leadership, communication and reporting.

January 2019 –
November 2020

Director

Institute of Microbiology and Biotechnology, 1 Academy Str., Chisinau 2028, Republic of Moldova, www.imb.asm.md

- Management and scientific coordination of the research institute, coordination of 89 staff, administrative and budget issues.

January 2014 –
January 2019

Senior Researcher

Laboratory of Phycobiotechnology, Institute of Microbiology and Biotechnology, 1 Academy Str., Chisinau 2028, Republic of Moldova, www.imb.asm.md

- Coordination of team collaborative work, including research projects

January 2015-
September 2020

Teacher

National Lyceum “Aristotel”, 1 Sprîncenoaia Str. , Chişinău 2028, Republic of Moldova, <http://liceu.asm.md/>

- Biology teaching

December 2005-
September 2007

Deputy-director

Institute of Microbiology and Biotechnology of the Academy of Sciences of Republic of Moldova, 1 Academia Str., Chisinau 2028, Republic of Moldova, www.imb.asm.md

- Management and scientific coordination of the institute, including scientific projects, coordination of 89 staff, administrative and budget issues.

October 2003-
September 2007

Director

National Collection of Non pathogenic Microorganisms , Academy of Sciences of Moldova, 1 Academy Str., Chisinau 2028, Republic of Moldova

- Management of the National Collection, including scientific projects, coordination of 14 staff, administrative and budget issues.

September 2003-
September 2007

Teacher

„Gh. Asachi” Lyceum , 64 București str., mun. Chișinău, www.asachi.md

- Biology teaching (in French) in bilingual classes

September 1993-
September 2007

Scientific Researcher

Laboratory of Photomicrobiology, Institute of Microbiology of the Academy of Sciences of Moldova, 1 Academy Str., Chisinau 2028

- Scientific research in the field of microbiology and biotechnology

2021-2024,
2007-2014
1997-2000

Career breaks

Accompanying husband in his diplomatic missions abroad (Prague, Budapest, Strasbourg)

EDUCATION AND TRAINING

Qualification awarded

2020

Doctoral Advisor

Certificate Series CD No. 0077 issued by the National Agency for Quality Assurance in Education and Research on 25.11.2020.

- Cell Biology, Microbiology

2003

Associate Research Professor

Certificate CȘS 0579 issued by the National Council for Accreditation and Attestation of the Republic of Moldova on 23.10.2003

- Biotechnology

1996

PhD in Microbiology

Diploma D 000288, issued by the National Council for Accreditation and Attestation of the Republic of Moldova on 24.02.1996. PhD thesis, specialization Microbiology: “*Directed Synthesis of Cyanocobalamine and Porphyrines by Propionibacterium freudenreichii s.s. shermanii*”, defended on 7 december 1995

- Microbiology

1989-1993

Doctoral studies

Faculty of Biology, Moldova State University, Chisinau, Republic of Moldova

- Microbiology, Biotechnolog

1984-1989

Bachelor of Science in Biology

Faculty of Biology, Moldova State University, Chisinau, Republic of Moldova

- Biology, Chemistry, Pedagogy

July 2006

Trainee Scheme Certificate

Centre International d’Etudes Pédagogiques, Sèvres, France

- Pedagogy, Biology, French

January – March
2000

Trainee Scheme Certificate

Department of Bioethics, Council of Europe, Strasbourg

- Bioethics

Other relevant professional experiences

2025 - present	- Scientific Secretary of Expert Committee on Chemical, Biological and Genomic Sciences of National Council for Accreditation and Attestation of the Republic of Moldova;
2019 -2025	- Member of the Scientific Committee of COST Association;
2018-2021	- Member of the National Team for elaboration of the Smart Specialization Strategy;
2018-2020	- Member of the Configuration “Climate action, environment, resource efficiency and raw materials” of the Horizon 2020 Programme Committee; - Member of the Configuration “Food security, sustainable agriculture and forestry, marine, maritime and inland water research, and the bioeconomy” of the Horizon 2020 Programme Committee;
2015-present	- FEMS Delegate;
2014-2018	- Official Representative of the Republic of Moldova nominated to the HORIZON 2020 Research Infrastructure Programme Committee;
2007- present	- Member of the Society for Microbiology of Moldova;
2001 – 2002	- Alternate member from Moldova to the Steering Committee on Bioethics, Council of Europe;
2007, 2014, 2016, 2018	- Member of organising committee of national and international Symposiums and Conferences;
2004 - present	- Evaluator of scientific projects and research infrastructure; - Reviewer of scientific publications, doctoral dissertation, member of doctoral Committee in Microbiology.

Project management experience

2006 - 2010	Project: Preservation of viability, physiological-biochemical characteristics and improvement of the productive potential of microorganisms - <i>Project director</i>
2014 - 2020	Project: Valorization and conservation of microbial resources through classical and modern competitive biotechnologies - <i>Project director</i>
2024 - present	

Language Skills

Mother tongue(s)

Româna

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Français	C2	C2	C2	C2	C1
Русский	C2	C2	C2	C2	C1
English	C1	B2	B2	B2	B2

Publications, Awards

- about 120 scientific publications in the field of the microbial biotechnology (bacteria, cyanobacteria, microalgae) and bionanotechnology;
- 18 patents for inventions regarding the biotechnological aspects of the cultivation and valorization of microorganisms;
- WIPO Golden Medal and Prize;
- Gold Medal “Henry Coanda”, Romanian Inventions Society
- Honorary Title “Elite Inventor of Romania” and “Elite Inventor R. of Moldova”

Some important scientific outputs

- **Codreanu, S.**; Cepoi, L.; Rudi, L.; Chiriac, T. Photosynthetic Microorganisms and Biogenic Synthesis of Nanomaterials for Sustainable Agriculture. *Nanomaterials* **2025**, *15*, 990. ISSN: 2079-4991. <https://doi.org/10.3390/nano15130990>
- Cepoi L, Rudi L, Chiriac T, Valuta A, **Codreanu S**, Mitina T and Codreanu L (2025) Effects of copper and copper oxide nanoparticles on cyanobacterium *Nostoc linckia*: an experimental study. *Front. Microbiol.* 16:1553857. ISSN: 1664-302X. <https://doi.org/10.3389/fmicb.2025.1553857>
- Sangeetha, J., **Codreanu, S.**, Thangadurai, D. (editors). Microalgal Biotechnology: Bioprospecting Microalgae for Functional Metabolites towards Commercial and Sustainable Applications, Apple Academic Press, 2023, pp. 1–322. ISBN 978-100077210-4, 978-177491237-9. DOI: <https://doi.org/10.1201/9781003332251>
- Oltu, I., Cepoi, L., Rudik, V., Rudi, L., Chiriac, T., Valuța, A., **Codreanu, S.** Current Research and New Perspectives in Antifungal Drug Development. In: Advances in experimental medicine and biology, 2020, nr. 1282, pp. 71-83. ISSN 0065-2598. DOI: https://doi.org/10.1007/5584_2019_453
- Cepoi, L., Rudi, L., Chiriac, T., **Codreanu, S.**, Valuța, A. Biological methods of wastewater treatment. In: Cyanobacteria for Bioremediation of Wastewaters. Cham: Springer International Publishing, 2016. pp. 45–60. ISBN 978-3-319-26751-7. DOI: [10.1007/978-3-319-26751-7_5](https://doi.org/10.1007/978-3-319-26751-7_5)
- Boortseva, S., Byrsa, M., Shibaeva, I., Cebotaru, N., **Codreanu, S.** Changes in the Antimicrobial Properties of *Streptomyces Canosus* CNMNAC-02 and its Variants During Long-Term Storage by Subculturing, *Analele Universitatii din Oradea, Fascicula Biologie*, 2021, 28(1), pp. 20–26 https://ibn.idsi.md/ro/vizualizare_articol/126715
- Rudi, L., Cepoi, L., Chiriac T., Maxacova–Djur S., Miscu V., **Codreanu S.**, Valuța, A., Dumbrăveanu, V., Cepoi, A., Rotari, I., Rudic, V. Unele aspecte ale procesului de biofuncționalizare spontană a nanoparticulelor de argint de către cianobacteria *Arthrospira platensis*. *Buletinul AȘM. Stiințele vieții*. 2020, 2(341), ISSN 1857-064X. https://ibn.idsi.md/ro/vizualizare_articol/121113
- Cepoi L., Rudi L., Chiriac T., Djur S., Miscu V., **Codreanu S.**, Ghelbet V., Nartea E., Rudic V. Modificarea conținutului unor compuși biologic activi la *Spirulina platensis* în condiții de stres de iluminare indus. *Buletinul AȘM. Stiințele vieții*. 2018, 2(335), ISSN 1857-064X.
- Rudic, Valeriu; Rudi, Liudmila; Maftai, Elena; Chiriac, Tatiana; Cepoi, Liliana; Miscu, Vera; **Codreanu, Svetlana**; Dumbrăveanu, Veronica; Zinicovscaia, Inga. Procedeu de cultivare a microalgei *Dunaliella salina* CNMN-AV-01. Patent de invenție MD 4598. BOPI 05/2019- p. 51, BOPI 10/2018, p. 47-48 http://agepi.gov.md/sites/default/files/bopi/BOPI_05_2019.pdf