Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	Carmen Madalina Cismasiu
Address(es)	Institute of Biology of Romanian Academy, 296 Splaiul Independentei, 060031, Bucharest, PO-BOX 56-53, Romania
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E-mail	carmen.cismasiu@ibiol.ro; madalinabio@yahoo.com
Nationality	Romanian
Date of birth	05.05.1969
Gender	Female

Desired employment / Occupational field

Work experience

Dates	2006 - present
Occupation or position held	Scientific research
Main activities and responsibilities	Research activities in fields of microbiology, bioremediation of the environments contaminated with metallic ions.
Name and address of employer	Institute of Biology Bucharest of the Romanian Academy, 296 Splaiul Independentei, 060031, PO Box 56-53, Bucharest, ROMANIA.
Type of business or sector	Biology of acidophilic bacteria living in residual industrial waters with a high level of heavy metals (isolation, characterization, taxonomy, physiology, applications in biotechnology), Academic research.

Dates	1996 - 2006
Occupation or position held	Junior researcher
Main activities and responsibilities	Research activities in fields of microbiology.
Name and address of employer	Institute of Biology Bucharest of the Romanian Academy, 296 Splaiul Independentei, 060031, P.O Box 56-53, Bucharest, ROMANIA.
Type of business or sector	General Microbiology, Academic research

Education and training

Dates	1998 – 2004
Title of qualification awarded	Doctor degree
Principal subjects/occupational skills covered	The study of acidophilic microbiota from industrial effluents with acid pH (2.0-4.0) and higher concentrations of metallic ions
Name and type of organisation providing education and training	Romanian Academy – Institute of Biology Bucharest, ROMANIA
Level in national or international classification	Doctor degree

Dates	1994 – 1995

Title of qualification awarded	Master degree
Principal subjects/occupational skills covered	Taxonomy
Name and type of organisation providing education and training	University of Bucharest, Faculty of Biology, ROMANIA
Level in national or international classification	Master degree
Dates	1989 – 1994
Title of qualification awarded	Licence
Principal subjects/occupational skills covered	Biology Section
Name and type of organisation providing education and training	University of Bucharest, Faculty of Biology, ROMANIA
Level in national or international classification	Licence

Personal skills and competences

Mother tongue(s): Romanian

Other language(s): English, French

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
Language - English	C1	Experimented user	C1	Experimented user	C1	Experimented user	C1	Experimented user	C1	Experimented user
Language - French	A2	Elementary user	A2	Elementary user	A2	Elementary user	A2	Elementary user	A2	Elementary user

(*) Common European Framework of Reference for Languages

Social skills and competences: Ability to work in multidisciplinary team, motivation to adapt to the working environment, perseverance.

Computer skills and competences: Word, Excel, Power-Point, Outlook, Adobe, Internet.

Additional information

I have involved in projects focused on their role in the bioremediation of environments (ground and residual water) containing metallic ions, such as 2 PNCDI research project within program BIOTECH and 2 CNCSIS research projects within ANSTI Grant and MEC Grant.
I was project manager in 1 CEEX research project within MENER program developed in partnership, 1 GAR research project and 1 CNCSIS research project within MEC Grant.
The scientific research was evidenced in 43 scientific articles in Romanian and International Journals and 1 patent entitled "Méthode microbiologique pour l'enlèvement de métaux des eaux lourds résiduelles" winning with 4 medals.

Annexes

Patent, Diplomas, Certificates, Publication list

PATENT

1. Bordeianu M., Stancu R., Sandu I., Popea F., Toniuc M., Cismasiu C., 2004. Méthode microbiologique pour l'enlèvement de métaux des eaux lourds résiduelles galvaniques – OSIM registered patent no. A/00280-30.03.2004, Bucharest.

DISTINCTIONS

1. Golden Medal at the Salon International des Inventions des Techniques et Produits Nouveaux, Geneva, for the invention titled, Méthode microbiologique pour l'enlèvement of métaux des eaux lourds résiduelles galvaniques' - Bordeianu M., Stancu R., Sandu I., Popea F., Toniuc M., Cismasiu C., 2005.

2. Silver Medal in Salon Mondial de l'Innovation et la Recherche of Nouvelles Technologies, "EUREKA", Brussels, for the invention titled 'Method microbiologique des métaux durs d'Elimination des eaux résiduelles galvaniques - Bordeianu M., Stancu R., Sandu I., Popea F., Toniuc M., Cismasiu C. 2004.
3. Golden Medal at the World Exhibition of Innovation " ZLATNA ARCA" - Zagreb, for the invention titled "Microbiological method to remove heavy metals from galvanic waste waters", Zagreb - Bordeianu M., Stancu R., Sandu I., Popea F., Toniuc M., Cismasiu C., 2007.
4. Silver medal at World Exhibition of Inventions and New Technologies "INVENTIKA" for the invention titled "Method microbiological removal of heavy metals from electroplating wastewater", Romania - Bordeianu M., Stancu R., Sandu I., Popea F., Toniuc M., Cismasiu C., 2007.

PhD THESIS

"*The study of acidophilic microbiota from industrial effluents with acid pH (2.0-4.0) and higher concentrations of metallic ions*" – scientific supervisor Professor Dr. I. Lazar. The thesis has been presented in 2004.

LIST OF PUBLICATIONS

1. Chapters of books

1. Carmen Madalina Cismasiu, 2011, *Complexitatea microbiotei acidofile din efluenti industriali cu concentratii crescute de ioni metalici*, Vol. „Complexitatea biologică sub aspect macro, micro, nano", Ed. M. Enache, Edit. Academiei Române, 191 – 212, (ISBN 978-973-27-2063-9).

2. Carmen Madalina Cismasiu, 2010, *Biodiversitatea microorganismelor acidofile prezente in habitate cu pH extrem si implicarea lor in bioremedierea mediilor poluate cu ioni metalici* , Vol. „Impactul factorilor de mediu asupra biodiversității, Ed. M.Enache, Edit. Academiei Române, 225 – 239, (ISBN 978-973-27-1907-7).

3. Carmen Madalina Cismasiu, 2007, *Diversitatea microorganismelor si potentialul lor biotehnologic in industria extractiva*, Vol. „Biodiversitatea de la concepte fundamentale la aplicații biotehnologice", Ed. M. Enache & L. Dumitru, Editura Academiei Române, 75 – 86, (ISBN 978-973-27-1584-0).

2. Scientific papers

4. Cismasiu C.M., 2011. *The influence of physico-chemical parameters on extracellular hydrolases from Acidiphilium species, isolated from acid mine drainage*, Muzeul Olteniei Craiova, Oltenia, Studii şi comunicări, Ştiintele Naturii, 27(1): 159-164.

5. Cismasiu C.M., 2010. The effects of acidity, temperatures and metallic ions on the oxidative activity of the acidophilic heterotrophic bacteria, present in mining effluents from Asecare mine, Oltenia. Studii si comunicari. Stiintele Naturii. 26(1): 223-230.

6. Cismasiu C.M., 2010. The taxonomic and physiologic diversity of the acidophilic chemolithotrophic bacteria of the genus *Thiobacillus* used in ores solubilization processes. Travaux de L'Institut de Speologie Emile Racovitza, Bucharest, 49: 97-112.

7. Cismasiu C.M., 2010. The acidophilic chemolithotrophic bacteria involved in the desulphurization process of lignite and pit coal from Halânga, Mintia and Petrila mines, Romanian Biotechnological Letters, 15(5): 5602-5610.

8. Cismasiu C.M., 2009. The acidophilic microorganisms diversity present in lignite and pit coal from Paroseni, Halânga, Turceni mines, International Conference of Sciences 2009, The Annals of Oradea University, Biology Fascicle, 2: 60-65.

9. Cismasiu C., 2008. Diversitatea microorganismelor acidofile prezente în habitate cu condiții extreme de pH, cu implicații în bioremedierea mediilor cu conținut crescut de ioni metalici". In: ARGESIS - Studii şi Comunicări, Seria Ştiințele Naturii, Tom XV, 11: 41 – 52.

10. Carmen Madalina Cismasiu, Gabriela Popescu Teodosiu, Lucia Roxana Cojoc, Liliana Ciobanu, 2007. Desulphurization coal with microbiological procedures, In „Capacity Building on the Ecomining principle: Proceedings of the Second International Seminar ECOMINING-Europe in 21st Century, Sovata & Praid Salt Mine, Romania, p. 403-413.

11. Popea F., Toniuc M., Cismasiu C., Bordeianu M., Stancu R., Sandu I., 2006 .Researches regarding the removal of Cu^{2+}, Zn^{2+} and Ni^{2+} ions by microbiological methods from galvanic waste water, Secția 2: Tehnologii de valorificare şi depoluare a apei, In: *Vol. cu lucrările celui de al III-lea Congres Internațional "Apa - un miracol*" (Vasile Cândea, Mărioara Godeanu, Iosif Tripşa), Ed. Europa Nova, Bucureşti, p. 417-424.

12. Cismasiu C., 2006. Influenta acidității, temperaturii şi a concentrațiilor de ioni metalici asupra activității oxidative a bacteriilor chemolitotrofe acidofile. In: ARGESIS – Studii şi Comunicări, Seria Ştiințele Naturii, Tom XIV, p. 121-135.

13. Lazar I., Voicu A., Dobrota S., Stefanescu M., Petrisor I.G., Cismasiu C., 2005. New contributions to the microbiota naturally occurring in the Movile cave, Travaux de l' Institut de Speologie "Emile Racovitza , Bucharest, 43-44: 7-24.

14. Toniuc M., Popea F., Faghi A.M., Cismasiu C., Bordeianu M., Stancu R., 2005. Microorganisme implicate în îndepărtarea cromului din ape reziduale industriale, Proceedings of the Xth Symposium of the Microbiology and Biotechnology", Iaşi, ISBN 973-8225-29-9, p. 419 – 424.

15. Bordeianu M., Stancu R., Rocsin D., Sandu I., Toniuc M., Popea F., Faghi A.M., Cismasiu M., 2004. Biotehnologiile - noi soluții pentru reducerea riscului de poluare a mediului datorat apelor reziduale cu conținut de crom, "Ecologie Industrială", Revista pentru protecția muncii şi a mediului, vol. I-II, ICTCM, Bucureşti, p.19 - 23.

16. Popea F, Toniuc M., Cismasiu C., Bordeianu M., Stancu R., Rocsin D., 2003. Procese biotehnologice de îndepărtare a metalelor grele cu ajutorul microorganismelor. In : Vol. celui de-al V-lea Simpozion cu participare Internațională "Ecologie, acoperiri metalice coroziune", Sibiu, p. 123 - 130.

17. Bordeianu M., Stancu R., Rocsin D., Olteanu C., Popea F, Toniuc M., Cismasiu M., 2003. Aplicațiile microorganismelor la îndepărtarea metalelor grele din apele reziduale galvanice. In: Proceedings of the 2nd International Conference "Study and Control of Corrosion in the Perspective of Sustainable Development of Urban Distribution Grids" June 19-21, Miercurea Ciuc, p. 71 - 73.

18. Bordeianu M., Stancu R., Rocsin D., Olteanu C., Popea F, Toniuc M., Cismasiu C., 2003. Aplicațiile microorganismelor în tratarea apelor reziduale galvanice cu conținut de metale grele , "Ecologie Industrială", nr.1, ICTCM, Bucureşti, p. 25 - 30.

19. Cismasiu C., 2001. The influence of acidity on the growth and activity of acidophilic heterotrophic bacteria, isolated from mining effluents", Institute of Biology. In: Revue Roumaine de Biologie, Académie Roumaine, Bucarest, p. 19-27.

3. Paper published in *Proceedings of the Institute of Biology*

20. Popea F., Cismasiu C., Bordeanu M., Stancu R, 2004. Sorption of metallic ions from galvanic water treated with yeasts, isolating from food produce and mining sites. In: *Proceedings of the Institute of Biology, Romanian Academy, Annual Scientific Session,* vol. VI, Bucureşti, p. 279 - 291

21. Cismasiu C. M., Bordeanu M., Stancu R, 2004. Removing the metallic ions from the industrial residual waters using the aerobe heterotrophic bacterial cultures, In: *Proceedings of the Institute of Biology, Romanian Academy, Annual Scientific Session,* vol. VI, Bucureşti, p. 199 - 211.

22. Cismasiu C. M., 2004. The study of acidophilic heterotrophic bacteria tolerance to high concentrations of metallic ions. In: *Proceedings of the Institute of Biology, Romanian Academy, Annual Scientific Session,* vol. VI, Bucureşti, p. 185 - 198.

23. Cismasiu C., Toniuc M., Popea F., 2002. Physiological microorganisms groups present in the mining residual waters. In: *Proceedings of the Institute of Biology, Romanian Academy, Annual Scientific Session*, vol IV, Bucharest, p. 235 -242

24. Voicu A., Cismasiu C. M.., Dobrotă S., Petrişor I. G., Stefănescu M., Lazăr I., 2000. The resistance of several microorganisms to Cu^{2+} ions and their role in biohydrometallurgical applications. In: *Proceedings of the Institute of Biology, Romanian Academy, Annual Scientific Session*, Bucharest, p. 295 - 304.

ORAL PRESENTATION

1. Carmen Madalina Cismasiu, The influence of physico-chemical parameters on extracellular hydrolases from Acidiphilium species, isolated from acid mine, Conferință ştiințifică internațională „Muzeul şi Cercetarea Stiințifică", Bucureşti, 22-24 septembrie 2011.

2. Carmen Madalina Cismasiu, The importance of acidophilic heterotrophic microorganisms for the biosorption process of heavy metals environmental pollution, Section - Microbiological techniques for environment, Conferința Ştiințifică Internațională ""Biotehnologia microbiologică-domeniu scientointensiv al ştiinței contemporane", Chişinău, Moldova, 4-9 iulie 2011.

3. Carmen Madalina Cismasiu, Curs Postuniversitar, prelegere cu tema, Complexitatea microbiotei acidofile din efluenti industriali cu concentratii crescute de ioni metalici, Inst. de Biologie, Bucureşti, 8 – 10 iulie 2009.

4. Carmen Madalina Cismasiu, Acidophilic microbiota from Romanian mines involved in bioremediation of heavy metal contamination, Intl. Workshop "Extremophilic microorganisms: molecular adaptations and bionanotechnological applications", Institute of Biology Bucharest, Romania, September 18-19, 2008.

5. Carmen Madalina Cismasiu, Curs Postuniversitar, prelegere cu tema Diversitatea microorganismelor acidofile şi potențialul lor biotehnologic în industria extractivă, Inst. de Biologie , Bucureşti, 31 octombrie – 2 noiembrie 2007.

6. Carmen Madalina Cismasiu, Desulphurization coal with microbiological procedures, 2nd International Seminar ECOMINING – Europe in 21st Century, 24-26 October 2007, Sovata & Praid Salt Mine Romania.

7. Carmen Madalina Cismasiu, Curs Postuniversitar, prelegere cu tema Biodiversitatea microorganismelor acidofile prezente in habitate cu pH extrem si implicarea lor in bioremedierea mediilor poluate cu ioni metalici, Inst. de Biologie, Bucureşti, 9-12 octombrie 2006.

PhD. Carmen Madalina Cismasiu