



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) Mariana Carmen Chifiriuc (maiden name Balotescu)  
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Nationality Romanian  
Date of birth 4<sup>th</sup> September 1974  
Gender female

### Work experience

Date **2003-present**  
Occupation or position held Lecturer (2003-2007), Associate Professor (2007-2013), Full Professor (2013-present), PhD supervisor (since 2014); Coordinator of the Life, Environmental and Earth Science Division of the Research Institute of the University of Bucharest; Director of Doctoral School of Ecology, University of Bucharest  
Name and address of employer University of Bucharest, Faculty of Biology, Ale. Portocalelor 1-3, 60101 Bucharest, Romania  
Main activities and responsibilities **Courses and practical works:** *General microbiology, Immunobiology, Medical microbiology, Medical bacteriology, Medical micology, Novel antimicrobial strategies, Immunogenetics, Standardized microbiological control of water, food, air and pharmaceutical products, Clinical Immunology*  
**Practical works:** *Immunobiology, Microbiology, Clinical Immunology, Medical microbiology*  
**Annual post-university courses of medical bacteriology** for biologists, biochemists and chemists working in the Romanian Sanitary System in cooperation with OBBCSSR (*Romanian Order of Biologists, Biochemists and Chemists Working in the Sanitary System*)  
**Supervisor of graduation, Master and PhD works** (cca 20 theses/year).  
Date **1997-2013 (1997-2003 full time)**  
Occupation or position held **Microbiologist**  
Main activities and responsibilities Microbial diagnosis of *Vibrionaceae* family, National Data Manager for EARSS (*European Antimicrobial Resistance Surveillance System*), member in the research team of the laboratory undergoing projects of the laboratory concerning the investigation by phenotypic and genetic tools of the *Vibrionaceae* family members; implementation of new methods for the investigation of toxigenicity and virulence potential, standardization of antimicrobial susceptibility testing of *Vibrio* isolates.  
Name and address of employer National Institute for Research and Development in Microbiology and Immunology Cantacuzino  
National Reference Center for Cholera and other Vibrios/Enteric infections

### Education and training

Dates **2011-2012- Sept-May**  
Continuous "Blended Learning" Training for University teaching - MII- Student centered learning – strategies for projecting, implementation and evaluation of educational process. **M2.2.** Educational strategies centered on students **POSDRU/57/1.3/S/26646**  
Dates **2000-2005**  
Title of qualification awarded **PhD degree - Host-parasite relationship. Opportunistic infections in HIV-infected patients**  
Principal subjects/occupational skills covered Conventional and complementary techniques used for the bacterial, parasitic, viral, fungal infections diagnosis in HIV infected patients, as well as for the investigation of their pathogenic potential.

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|--|---|
| Name and type of organisation providing education and training | University of Bucharest, Faculty of Biology   |
| Level in national or international classification              | First place in Class A  |
| Dates  | <b>1999-2000</b>  |
| Title of qualification awarded                                 | <b>PhD fellowship</b>   |
| Principal subjects/occupational skills covered                 | Elucidation of <i>Blastocystis hominis</i> , <i>Entamoeba sp.</i> : statute as primary or opportunistic pathogens in HIV/AIDS patients; Detection of <i>Entamoeba histolytica/dispar</i> complex using <i>Entamoeba</i> and <i>Entamoeba histolytica</i> II ELISA Techlab kits. |
| Name and type of organisation providing education and training | Pasteur Institute of Bangui, Central African Republic   |
| Dates  | <b>2000 (3 months)</b>  |
| Title of qualification awarded                                 | <b>Certificate Equivalent to DEA (Diplome des Etudes Approfondis)</b>   |
| Principal subjects/occupational skills covered                 | Medical Bacteriology Advanced Course  |
| Name and type of organisation providing education and training | Pasteur Institute of Paris, France  |
| Date   | <b>1997-1999</b>  |
| Title of qualification awarded                                 | <b>Master studies</b>   |
| Principal subjects/occupational skills covered                 | Taxonomy  |
| Name and type of organisation providing education and training | University of Bucharest, Faculty of Biology   |
| Date   | <b>1992-1997</b>  |
| Title of qualification awarded                                 | <b>Diploma in Biology, Specialization Medical Biology</b>   |
| Principal subjects/occupational skills covered                 | <b>Title of graduation work:</b> Microbial adherence to eukaryotic HEp-2 and HeLa cells   |
| Name and type of organisation providing education and training | University of Bucharest, Faculty of Biology   |

Date **1988-1992**  
 Title of qualification awarded **Certificate of Medical Assistant**  
 Name and type of organisation providing education and training Sanitary Secondary School of Pitesti

**Specialization courses and trainings**

**CEFOR courses** (Centre de Formation des Enseignants dans le Domaine de Sciences de la Vie): *Microbiology, Immunology, Molecular Biology, Biochemistry*, Bucharest, 1997, 2002 ; **CEFOR II-TEMPUS**: *Microbiology, Statistics in Biology*, Bucharest, 1997; **International course**: *Update in Clinical Diagnosis of Infectious Diseases- American Foundation for Medical Education*, Bucharest, 1998 ; **Workshop**: *Antibiotic resistance in lung and EET infections*, Bactro & Augmentin Bis, Budapest 1998; **Advanced Course**: *Medical Bacteriology* - Pasteur Institute, Paris, France, January -April 2000; **PhD fellowship**: *Maladies opportunistes chez des malades immunodeprimés*, Pasteur Institute Bangui, Central African Republic, March- December 1999; **International Postuniversity Course**: *From molecular biology to 21st Century Medicine* Bucharest, 2001; **2<sup>nd</sup>, 3<sup>rd</sup> Workshops of National Data Managers of EARSS**, Bilthoven, 2001; 2004; **18<sup>th</sup> ESCMID Postgraduation Course**: *Characterization, Molecular Biology and Epidemiology of beta-lactamases*, Italy, 2002; **Intensive Course of Bioinformatics**: National Excellence Center for Microbiology, Biotechnology and Microbial Genetics, Bucharest, Romania, 2002; **1<sup>st</sup> ESCMID Summer School of Clinical Microbiology and Infectious Diseases**, Lausanne, Switzerland, 2002; **Workshop**: *Mycology without tears: tools and techniques for demystifying fungal identifications*, Bucharest, 2003; **Data mining and Data managing workshop**, Bilthoven, Holland, 2006; **EARSS data managers workshop: data analysis and interpretation with statistic tools**, June 2006, RIVM, Bilthoven, Netherlands; **International Workshop on Quantitative Biology**, 2007 Bucharest, Romania.

**Personal skills and competences**

Romanian  
 Mother tongue(s) **Specify mother tongue** (if relevant add other mother tongue(s), see instructions)  
 ([Consult European Framework of Reference for Languages](#))  
 Other language(s)

| Self-assessment<br><i>European level (*)</i> | Understanding |         | Speaking           |                   | Writing |
|--|---------------|---------|--------------------|-------------------|---------|
|  | Listening     | Reading | Spoken interaction | Spoken production |         |
| <b>English</b>                               | C1            | C2      | C1                 | C1                | C2      |
| <b>French</b>                                | B2            | B2      | B2                 | B2                | B1      |
| <b>German</b>                                | A2            | A2      | A1                 | A1                | A2      |

## Technical skills and competences

investigation of antibiotic resistance at phenotypic and molecular level;  
phenotypic and genotypic investigation of bacterial virulence;  
investigation of host-infectious agents relationships by *in vitro* and experimental pathology assays;  
assessment of novel chemical compounds for their antimicrobial activity;  
investigation of therapeutic or prophylactic alternatives for fighting resistant bacteria and optimizing the *in vitro* and *in vivo* methodology for their selection (i.e. probiotics, prebiotics, vegetal extracts);  
study of microbial interactions with the cellular and inert substrata, in order to select biomaterials with potential use in medicine as anti-microbial/anti-biofilm surfaces;  
investigation of the role of microbial signaling molecules pheromones in the bacterial cell – eukaryotic cell cross-talk;  
nanotechnology in microbiology (biological tests for the evaluation of different types of nanoparticles as anti-microbial/anti-biofilm strategies, as drug delivery systems, as stabilizers for unstable antimicrobial compounds, such as the essential oils);  
application of flow cytometry in microbiology for antibiotic susceptibility testing and resistant populations detection;  
quality assurance in microbiology.

## Scientific production

**Habilitation thesis:** *Investigation of microbial virulence and resistance reservoirs and assessment of new anti-infective therapeutic and preventive strategies*

**PhD thesis:** *Host-parasite relationship. Opportunistic infections in HIV-infected patients*

### Research projects obtained as principal investigator or member in the research team after obtaining the PhD degree:

#### Coordinator/key person:

- 10 national projects (1 Bridge, 2 Ideas, 2 CNCSIS- AT, A, 2 Human resources, 3 PNIII - 1 BG, 1 PCE, 1 PED)
- 4 international (EARSS, PHARE, InfectEra, M-Eranet)

#### Member in the research team:

- 38 national research projects
- 3 international (FP7, COST, 1 M-ERANET)

#### Publications

- First/main author-4 books, 5 chapters in books
- Coauthor – 3 books, 5 textbooks, 1 national guide, 1 dictionary of specialty terms, 4 chapters in books (1 in national, 3 in international publishing houses), 10 patents
- 235 publications *in extenso*
- >160 posters and communications with abstracts published in proceedings of national and international congresses and meetings

#### Project manager/Partner responsible:

1. **PN-III-P4-ID-PCE-2016-0921** *Rapid method based on flow cytometry for detection microorganisms and antibiotic sensitivity testing directly from clinical specimens*
2. **PN-III-P2-2.1-PED-2016-0240** *Sustainable Zinc Oxide Materials for Antimicrobial Applications*
3. **PN III BG- PN-III-P2-2.1-BG-2016-0369** *Transfer of knowledge on investigation of infectious and antitumor properties of new pharmaceutical formulations and cosmetics based on natural extracts*
4. **PN II PCCA 215 2014-2016** *Innovative nanostructured materials and coatings with antimicrobial activity for medical applications.*
5. **Human Resources- PN-II-RU-TE-2014-4-2037** *Risk assessment of transposon-mediated transfer of some carbapenemase gene*
6. **Human Resources 135/2010** *The correlation of Pseudomonas aeruginosa and Staphylococcus aureus virulence and/or resistance pattern with the clinical outcome of nosocomial infections*
7. **Ideas 296/2007 (2007-2010)** *The role of heat shock proteins in bacterial pathogenesis and their potential use in developing new antimicrobial strategies*
8. **CNCSIS 187 (2007-2009)** *The role of P. aeruginosa bacterial pheromones in the modulation of host-bacterial cell interaction during the infectious process*
9. **CEEX 1460 (2006-2008)** *Novel strategy for attenuation of bacterial pathogenicity and virulence based on QS inhibitors*
10. **IDEAS (2011-2014)** *Effects of P. aeruginosa quorum sensing molecules on Drosophila genome: a new tool to identify candidate genes involved in host-pathogen crosstalk*

**Key person:**

1. **EARSS Project-financed by DG-SANGO** (*European Antimicrobial Resistance Surveillance System*) (**National Data Manager** - 2001-2009)
2. **PHARE PROJECT** -*Strengthening the Institutional and Administrative Capacity of the MoHF to adopt and implement the Acquis Communautaire in the Field of Water and Related Risks* **project ID:EuropeAid/115101/D/SV/RO/ - National expert**
3. **JPI-EC-AMR Joint Transnational Call for Proposals 2016** "Transmission Dynamics of Antimicrobial Resistance - Antibiotic Resistance in Wastewater: Transmission Risks for Employees and Residents around Waste Water Treatment Plants. Acronym: AWARE-WWTP
4. **M-ERA.NET Call 2016**. Interfaces between materials and biological hosts for health applications Advanced **FP7-Cooperation** (2009- 20011) *Occupational Health and Safety economics –ROWER* Health-2007- 4.2: *Building a knowledge repository for occupational well-being economics research (ROWER biodegradable materials based on MgB2 resistant to microbial colonization. Acronym: BIOMB*

**Member in the projects' research team:International:**

5. **PROJECT COST B 23 (2004-2006)** *Oral Facial Development and Regeneration.*
6. **Project M-ERA.NET (2013-2015)** *Ag/Si doped carbon layer for biomedical application (CarLa)*

**National**

1. **PN-III P2-2.1-94BG-2016** - *Performance / competitiveness increase by improving the technology of obtaining intelligent products with biocompatibility and superior antibacterial properties with cosmeto-medical applications*
2. **PN-III-P2-2.1-PED-2016-1008**-*Functional model of microbial combustion cells for the production of bioelectricity with treatment simultaneous use of municipal waste water*
3. **PN-III P2-2.1-PTE-2016-0177**-*Hydrogels based composites of inorganic nanoparticles and collagen prolonged antimicrobial activity of the wound for infection prevention*
4. **PN-III P2-2.1-BG-2016-0142** - *Increased performance / competitiveness by improving the technology of production of intelligent products with superior biocompatibility and antibacterial properties cosmeto medical applications*
5. **PN-III P2-2.1-BG-2016-0397** –*Contributions to improve competitiveness of Sanimed SRL by assimilating knowledge and possible implementation into production of 3D collagen-polymer hybrid matrices with applications in tissue recovery*
6. **PCCA 259/2014**-*Bioceramic composites with local applications in antibacterial therapy.*
7. **TE 372/2015**-*Magnetite nanoparticles functionalized with natural compounds modulatory effect on Pseudomonas aeruginosa virulence and persistence.*
8. **PN II 3.1-0969 (2012-2014)** *Innovative Multidisciplinary research to investigated the effects of probiotic lactic acid bacteria strains and new consortia (Prolab)*
9. **PCCA 87/2014**-*Textile innovative photocatalytic antibacterial and self-cleaning properties.*
10. **CNCSIS 134 (2010-2013)** *Study of molecular mechanisms of the antimicrobial activity of some probiotic bacteria against urogenital pathogenic agents*
11. **CNCSIS A 1312 (2007-2009)** *Evaluation and monitoring of the soluble mediators implicated in the regulation of bacterial cells growth by quorum sensing mechanisms*
12. **Ideas 295/2007 (2007-2010)** *Alternative methods for demonstrating in vivo invasive potential of Shigella spp and enteroinvasive Escherichia coli strains*
13. **PN II- 42150 (2007 -2010)** *New significant aspects concerning the antibiotic resistance and virulence of bacterial strains isolated from the infectious pathology associated with cardiovascular and gastro-intestinal surgery*
14. **PN II 61-046 (2007-2010)** *Research on obtaining new classes of antimicrobial agents: synthesis, characterization, physico-chemical and biological screening of new thioureides*
15. **CEEX (VIASAN). 142 (2006-2008)** *Setiing up an integrated network for the study of microbial biofilms developed on prosthetic and cellular substrates in order to improve diagnosis and treatment of biofilms associated infections*
16. **CNCSIS 187 (2007-2009)** *The role of Ps. aeruginosa bacterial pheromones in the modulation of host-bacterial cell interaction during the infectious process"*
17. **PN II 42095 (2007-2010)** *Research concerning the synthesis, physico-chemical characterization and anti-infectious activity of new compounds with tricyclic 6.7.6 structure*
18. **PN II 61-047 (2006-2018)** *Interdiaplinary research for obtaining new antimicrobial agents, physoco-chemical charatcerization and anti-infectious activity*
19. **CEEX (RELANSIN) 129 (2006-2008)** *Novel nanostructured materials with biocompatible properties for biomedical applications*
20. **CNCSIS 1679 (2007-2009)** *Selecting and monitoring the effectiveness of ecological alternatives to combat opportunistic infections and antibiotic resistant bacteria included in biofilms."*

21. **CEEX (VIASAN) (168/2006)** Study of antibiotic resistance mechanisms by impermeability in Gram-negative bacteria on natural and reconstituted membranes
22. **PN II 62-071 (2008-2011)** Getting a topic phytoproduct efficient in stimulating the healing of skin lesions"
23. **PN II 71-010/ (2007-2010)** Biodegradability study of some composite materials with applications in cars industry
24. **CNCIS 1679 (2007-2009)** Selecting and monitoring the effectiveness of ecological alternatives to combat opportunistic infections and antibiotic resistant bacteria included in biofilms."
25. **CEEX (RELANSIN) 199 (2006-2008)** Control of human and bacterial cells interaction with nanostructured surfaces to obtain intelligent biosurfaces
26. **VIASAN 475- (2004-2006)** In vitro study of the bacterial lectins role in the evolution of infectious process and their role in the infraspecific typing"
27. **MATNANTECH 204 (403) (2004 2006)** Complex nanospecies, biomaterials with anti-infectious action
28. **VIASAN 224 (2003-2005)** - Pilot program for the surveillance of antibiotic resistance.
29. **AGRAL 212 (2003-2005)** Biotechnological evaluation and demonstration of some ecologic alternatives with potential applications in monogastric animals growing
30. **VIASAN 239 (2004-2006)** Virulence and pathogenicity of *Aeromonas* sp. strains with different sources of isolation
31. **VIASAN 443 (2004-2006)** Local immunisation methods for the management of periodontal disease
32. **PN II 3.1-0969 (2012-2014)** - Innovative, multidisciplinary research to investigate the probiotic effects of new lactic acid bacteria strains and consortia (*Prolab*).
33. **VIASAN 065/(2001-2003)** – Genotypic and Phenotypic characterization of *Vibrio cholerae* strains isolated in Rep. Moldova during 1995-2000.
34. **BIOTECH-292- (2004-2006)** "Setting up a standardized microbial collection laboratory"
35. **94/PN2/PCCA (2012-2014)** – New nanostructured prosthetic devices with improved anti-biofilm activity (*AntiBioTube*).
36. **CEEX\_86/2006- (2006-2008)** Application of accelerated electron beam for the microbial decontamination of nutritive supplements of vegetal origin
37. **CEEX\_85 (2006-2008)** Interdisciplinary research for obtaining new antimicrobial agents, physico-chemical characterization and antimicrobial activity
38. **CERES. 4 – 128 (2004-2006)** Bioactive species processed as infectious agents inhibitors

#### Patents

1. M.V. Lungu, D. Pătroi, F. Grigore, M. Lucaci, D. Tâlpeanu, V. Tsakiris, S.A. Mitrea, A. Brătulescu, C.D. Cîrstea, N. Stancu, V. Marinescu, A. Sobetkii, A.A. Sobetkii, M.C. **Chifiriuc**, M. Popa, *Sputtering targets and thin films made of silver doped zinc oxide antimicrobial nanopowders and process for preparing the same*, Proceedings of the 9<sup>th</sup> Edition of EUROINVENT 2017, European Exhibition of Creativity and Innovation, May 25-27, 2017, Iasi, România (<http://www.euroinvent.org/cat/E2017.pdf>), pag. 406-407, Gold Medal (<http://www.icpe-ca.ro/activitate-stiintifica/diplome-2017/euroinvent-2017/aur-lungu-2017.pdf>) and Excellence prize
2. Moldovan L., Alexandru V., Craciunescu O, Lazar V, **Balotescu C.** Patent no. 122181- 2007- *Natural hydrogel for the regeneration of injured dermal tissue*.
3. Lazar V., **Chifiriuc M.C.**, Cernat R., Bulai D. Patent no. 123145- 2007- *Method for assessment of the bacterial biofilms to antimicrobial substances*.
4. Lazar V., **Chifiriuc M.C.**, Cernat R., Bulai D. Patent no. 123146- 2007- *Antibiotic susceptibility method for testing the microbial biofilms*.
5. Draghici C., Missir A.V., **Chifiriuc M.C.**, Nițulescu G.M., Dițu L.M. Patent no. 00426 00123418 C07C 335/26 -2009 -*Thioureides of 1-Methyl-1h-4-Pirazol-Carboxylic acid and preparation procedure*.
6. Limban C., Missir A., Chirita I.C., Draghici B., **Chifiriuc M.C.**, Bleotu C. Patent no. RO122638 (B1)- 2009 -N, N'-Disubstituted Thioureides Of 2-(4-Fluorophenoxymethyl)-Benzoic Acid used as a anti-microbial agent.
7. Limban C., Missir A., Chirita I.C., Miron T.C., Drăghici C., **Chifiriuc M.C.**, Drăcea N.O. Patent no. RO123054 (B1)- 2010 -*N-Acylated Thiourea Derivatives, Pharmaceutical Composition Containing The Same And Use Thereof*.
8. Limban C., Missir A., Chiriță I.C., Căproiu M.T., **Chifiriuc M.C.**, Israil M.A., Delcaru C. Patent no. RO 123055 (B1)- 2010- *O-Acyl-2-Ethyl-11-Oxyimino-6,11-Dihydro-Dibenz[B,E]Oxepine Derivatives, Pharmaceutical Composition Containing The Same And Use Thereof*.
9. Stecoza C.E., Chirita I.C., Căproiu M.T., Drăghici C., **Chifiriuc M.C.**, Ilie C. Patent no. RO123114- - 2009-(6,11-Dihydrodibenzo(b,e)thiepine-5,5-dioxide derivatives, process for preparing the same, pharmaceutical composition containing the same and utilization thereof as antimicrobial agents.
10. Pelinescu D., **Chifiriuc C. M.**, Săsărman E., Vassu Dimov T, Stoica I., Enache Soare S., Ionescu R., Avram I. Patent no. 123277 B1/30.05.2011- *Isolation, selection and preservation procedure of a probiotic strain of Enterococcus faecium, lactic bacteria of zootechnic use*.
11. Sasarman E., **Chifiriuc C.M.**, Pelinescu D., Bleotu C., Vassu T., Stoica I. Patent no. 123278 B1/ 30.05.2011 - *Isolation, selection and preservation procedure of a probiotic strain of Enterococcus faecium, Lactobacillus paracasei ssp. paracasei, lactic bacteria for human use*.

## Participation to scientific congresses, workshops:

### National

1. Annual participation to the National Meeting of Romanian Society of Microbiology Acad. N. Cajal Symposium, National Flow Cytometry Congress
2. Workshop PROBIOTICS – An alternative to conventional treatments , 2010
3. ICDPP Symposium (scientific research and development for plant protection) 2010
4. National Congress UNAS (National Union of Romanian Dentists), 2009
5. Veterinary Medicine Simposium, Bucuresti, 2008
6. Workshop -*Medical significance of microbial biofilms*, Bucharest, November, 2008
7. Romanian Society for Cell Biology at 25 years, Anniversary workshop “From Basic Science to Therapeutic Applications”, Bucharest 6-10 June 2007
8. The 6th Seminar of NanoScience and Nanotechnology, Romanian Academy, 26 March 2007

### International

1. ECCMID- European Congress of Clinical Medicine and Infectious Diseases – annually 2002- 2017
2. Federation of European Biochemistry Societies Congress (FEBS)- 2010-2017
3. Federation of European Microbiological Societies Congress (FEMS) – 2006, 2011
4. 1st International Medicinal and Aromatic Plants Conference on Culinary Herbs, 2007, Antalya, Turkey
5. International Congress On Microbial Ecology And Disease (SOMED) –2007, 2010, 2011, 2012
6. ROWER Workshops- 2009, 2010
7. Meeting of the Three Divisions of the International Union of Microbiological Societies, Bulgaria, 2008
8. Genomes 2008. Functional Genomics of Microorganisms, Paris, 8-11 April, 2008
9. Federation of European Biochemistry Societies Congress- 2007, 2008
10. 31<sup>st</sup> International Symposium on HPLC and Related Techniques, June, 2007
11. VIBRIO 2007 Conference, 25 Nov. – 1 Decembrie, Paris, Franta
12. Genetics and Mechanisms of Susceptibility to Infectious Diseases 21-24 Nov. 2007, Paris
13. International Congress of Nosocomial Infection Prevention, Lednice, 27-29.5.2007
14. International Workshop on Quantitative Biology, 2007, Bucharest, Romania
15. Data mining and Data managing workshop, Bilthoven, Holland, 2006
16. Workshop data analysis and interpretation in Excel- EARSS data managers workshop, RIVM, Bilthoven, The Netherlands, 2006
17. Le quatrieme colloque Franco-Roumain de Chimie Apliquee, Clermont-Ferrand, France, 2006
18. 7<sup>th</sup> International Symposium on the Biology of *Acinetobacter*, Palma de Majorca, 2006
19. International Conference on Surgical Infections, Stockholm, Sweden 2006
20. Black Sea basin conference on analytical chemistry, 2005
21. Microbiologia Balkanica, Bucharest, Romania, 2005

### Organisational skills and competences

- **Member in the scientific committee**

Workshop “*Medical significance of microbial biofilms*”, 2008

CALILAB- Association for quality in laboratories

Member of the Scientific Professional Commission for teaching and legislation- OBBCSSR

Member of the Ministry of health Commission for Laboratory Medicine

- **Member in the organizing committee**

Research Institute of the University of Bucharest (ICUB) workshops and events

Congress of the Romanian Society of Cytometry, 2014, 2015, 2017

Beginners and advanced courses of flow cytometry 2014, 2015

National Conference of OBBCSSR, 2012

2<sup>nd</sup> ROWER Conference on Occupational Health and Safety Economics, 2011

Member in organizing committee and invited speaker “*Management and quality assurance in medical laboratories. Conventional and modern microbiological and immunological methods*” – Bucharest, 2007

Member in organizing committee and invited speaker „*Follow up QA/QC and reference laboratory*’, Bucuresti, 28-30 Sept. 2005

Coordinator “*Quality assurance in antimicrobial susceptibility testings*”, 11-12 October, 2001, Bucharest, Romania, Romanian Society of Microbiology

Coordinator *Atelier pratique- Le diagnostic des diarrhees au cours du SIDA de l’ adulte*”, Bangui, Republique Centrafricaine, 1999, Pasteur Institute of Bangui

- **Invited speaker and chair in international workshops and conferences**

Congress of the Immunology -2016, 2017

Congress of the Romanian Society of Cytometry - 2015, 2017

European Congress of Cell Analysis (ECCCA), Lisbon, 2014;

EQALM (European organization for external Quality Assurance providers for Laboratory Medicine) Symposium, Bucharest, 2013 ;

22<sup>nd</sup> ECCMID (*European Congress for Clinical medicine and Infectious Diseases*), London, April 2012;

*Conference -Diaspora in Romanian Scientific Research and Education*, Bucharest, September 25-28, 2012;

2<sup>nd</sup> ROWER Conference on Occupational Health and Safety Economics; 2011;

1<sup>st</sup> ROWER Conference on Occupational Health and Safety Economics, 2010;  
ROWER Workshops- 2009, 2010;

*New antimicrobial strategies based on the modulation of intercellular signaling mechanisms in bacteria mediated by quorum-sensing-16<sup>h</sup>*  
International conference on control systems and computer science, "POLITEHNICA" University of Bucharest, Bucharest, Romania, 2007;  
Data mining and Data managing workshop, Netherlands, 2006;  
Data analysis and interpretation in Excel- EARSS Data managers workshop, 2006, RIVM, Bilthoven, The Netherlands;  
Water microbiological control, infectious diseases and public health- Seminar Schleicher and Schuell, 2002, February, Brasov, Romania.

### Member of professional associations/societies

**ESCMID** (European Society for Clinical Microbiology and Infectious Diseases), **OBBCSSR**, **SRM** (Romanian Society of Microbiology), **Balkan Medical Union**, **FEMS** (European Federation of Microbiology Societies), **Romanian Association of Flow cytometry**, **ESCCA** (European Society for Clinical Cell Analysis).

### Professional visibility

#### • Prizes

- Gold Medal EuroInvent (<http://www.icpe-ca.ro/activitate-stiintifica/diplome-2017/euroinvent-2017/aur-lungu-2017.pdf>)
- The prize of the *Romanian Society of Microbiology* for 2 posters presented to the Romanian Conference of Microbiology, 2007
- The 3rd prize for the poster presented to The Anniversary Conference of the Institute of Biology – 50 years of Academic Research in Microbiology, 2010

• **National microbiology expert** in the PHARE project - EuropeAid/115101/D/SV/RO.

#### • Invited Editor

- a. *Invited guest editor- special issues for Current Organic Chemistry (impact factor 2,9; RIS 2.13)* (Topics: Quorum sensing inhibitors: synthesis, optimization, and emerging biomedical applications; Prevention of microbial biofilms - the contribution of micro and nanostructured materials)- <http://benthamscience.com/journal-files/special-issue-details/CMC-SII20130923-07.pdf>; <http://benthamscience.com/journals/current-organic-chemistry/volume/17/issue/2/page/89/>  
- Guest editor – *Curr Top medChem*  
- <http://grumezescu.com/wp-content/uploads/2014/02/Micron.pdf>  
- <http://grumezescu.com/wp-content/uploads/2014/02/Nanon.pdf>

• **Projects Evaluator**—Ideas Projects, Competitions 2008, 2012, ERA-NET, PNIII-TE, research projects within the University of Missouri system

• **Hirsch index- 24**, >2000 citations (source: SCOPUS)

#### • Editor of national journals

- *Romanian Biotechnological Letters (RBL)* - <http://www.rombio.eu/editorial%20board.pdf>
- *Rom Arch. Imunol. Microbiol. Din 2008*-<http://www.roami.ro/index.php?q=board>
- *Biointerface Research and Applied Chemistry-2011*-<http://biointerfaceresearch.com/editorial-board/>
- *Letters in Applied NanoBioScience- 2012*-<http://nanobioletters.com/>
- *Annals of West University of Timisoara, Series of Biology.*-<http://www.biologie.uvt.ro/annals.htm>

#### • Referee – for journals ISI si IDB

##### National

*Romanian Biotechnological Letter* – **RBL**, *Rom Arch. Immunol. Microbiol.*, **RAMI**, *Romanian Journal of Biophysics* - **RJB**; *Biointerface Research in Applied Chemistry* – **BRIAC**; *Letters in Applied NanoBioSciences*; *Revista Romana de medicina de Laborator* – **RRML**.

##### International

*Journal of Nanomaterials* – **J. Nanomat.**, *Antimicrobial agents and chemotherapy*-**AAC**, *Current Pharmaceutical Biotechnology* – **CBP**, *Zygot*, *Chinese Chemical Letters* – **CCL**, *Biologicals*, *Jornal de Pediatria*, **AOB**-*Archives of Oral Biology*, *Colloids and Surfaces B: Biointerfaces*, *Journal of Infection and Public Health*, *British Journal of Medicine and Medical Research*, *Innovative Food Science and Emerging Technologies*, *Journal of Food and Drug Analysis*, *Journal of Essential Oil Bearing Plants*, *Materials Chemistry and Physics*, *Journal of Industrial and Engineering Chemistry*, *Journal of Epid. And Global Health*, *British Microbiology Research Journal*, *International Journal of Pharmaceutics* – **IJP**, *Journal of Antimicrobial Agents* – **JAC**; *Applied Surface Science* – **ASS**; *International Journal of Molecular Sciences*- **IJMS**, *African Journal of Food Science*- **AJFS**, *Journal of Medical Plant Research* – **JMPR** *Iranian Journal of Biotechnology* – **IJB**, *International Research Journal of Microbiology*- **IRJM**, *International Journal of Fisheries and Aquaculture*- **IJFA**, *African Journal of Microbiological Research* – **AJMR**, *Journal of Medicine and Medical Sciences*- **JMMS**, *African Journal of Pharmacy and Pharmacology*- **AJPP**; *African Journal of Biotechnology*- **AJB**; *International Research Journal of Pharmacy and Pharmacology*- **IRJPP**, *Journal of Veterinary Science*- **JVS**; *African Journal of Plant Science*- **AJP**, *Journal of Bacteriology Research* – **JBR**, *Journal of Microbiology and Antimicrobials*- **JMA**, *International Research Journal of Plant*

### Computer skills and competences

Microsoft Office (Word, Excel, PowerPoint, Photo Editor, Access), working with databases (Whonet, EARSS), statistical analysis software (GraphPad).

### Other skills and competences

Archeological reproductions painting

**Board member of APMNIR- Friends of Romanian National History Museum** ([http://www.apmnir.ro/en/APMINR Asociatia Prietenilor Muzeului National de Istorie al Romaniei-Proiecte-2.html](http://www.apmnir.ro/en/APMINR%20Asocia%20Prietenilor%20Muzeului%20National%20de%20Istorie%20al%20Romaniei-Proiecte-2.html)): Labeling historical monument buildings from four historical cities of Romania, i.e. Bucharest, Curtea de Arges, Campulung and Pitesti (>600 monuments); **Bucharest's historical monuments interactive map** (<http://www.apmnir.ro/map.php?lang=en>); **Romania's Historical Monuments interactive project** (<http://www.monumenteromania.ro/>); **Smart Phone Applications (google play/app store) - Museums and collections of Romania** (<https://play.google.com/store/apps/details?id=com.Cultural.Collections&hl=ro>); **Romania's Historical Monuments** ([https://play.google.com/store/apps/details?id=com.historical.monuments&feature=search\\_result#?t=W251bGwsMSwxLDEslmNvbS5oaXN0b3JpY2FsLm1vbnVtZW50cyJd](https://play.google.com/store/apps/details?id=com.historical.monuments&feature=search_result#?t=W251bGwsMSwxLDEslmNvbS5oaXN0b3JpY2FsLm1vbnVtZW50cyJd))

**Member of the Cultural Association New Akropolis- [www.noua-acropola.ro](http://www.noua-acropola.ro)**: public conferences and exhibitions on cultural/large interest subjects (ancient Egypt, Ancient India, Feng-Shui, Neolithic cultures in Romania, Romanian Renaissance, Global warming and human health, Genetics, between science and philosophy, Wooden art in the Romanian traditional art, Romanian Sacred Architecture etc.)

### Driving licence

No

October 2017



Prof. Mariana Carmen Chifiriuc