



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) Mariana Carmen Chifiriuc (maiden name Balotescu)

Work experience

Date	2003-present
Occupation or position held	Lecturer (2003-2007), Associate Professor (2007-2013), Full Professor (2013-present), PhD supervisor (since 2014); Director of the Research Institute of the University of Bucharest (2014-2020); Vice-rector for Research at University of Bucharest (2020-).
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: <i>General microbiology, Immunobiology, Medical microbiology</i> (undergraduate students), <i>Medical bacteriology, Medical Micrology, Novel antimicrobial strategies, Immunogenetics</i> (Master and PhD students), <i>Standardized microbiological control of water, food, air and pharmaceutical products</i> (Master and PhD students), <i>Clinical Immunology</i> (Master and PhD students) Practical works: <i>Immunobiology, Microbiology</i> (undergraduate students), <i>Clinical Immunology, Medical microbiology</i> (Master and PhD students), <i>Microbiology</i> (postuniversity training) Annual post-university courses of medical bacteriology for biologists, biochemists and chemists working in the Romanian Sanitary System in cooperation with OBBCSSR (<i>Romanian Order of Biologists, Biochemists and Chemists Working in the Sanitary System</i>) Supervisor of graduation, Master, PhD and Postdocs (cca 20 theses/year).
Date	1997-2013 (1997-2003 full time)
Occupation or position held	Microbiologist
Main activities and responsibilities	Microbial diagnosis of <i>Vibrionaceae</i> family, National Data Manager for EARSS (<i>European Antimicrobial Resistance Surveillance System</i>), member in the research team of the laboratory undergoing projects of the laboratory concerning the investigation by phenotypic and genetic tools of the <i>Vibrionaceae</i> family members; implementation of new methods for the investigation of toxigenicity and virulence potential, standardization of antimicrobial susceptibility testing of <i>Vibrio</i> 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.
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	1999-2000
Title of qualification awarded	PhD fellowship
Principal subjects/occupational skills covered	Elucidation of the <i>Blastocystis hominis, Entamoeba sp.</i> : statute as <i>primary or opportunistic pathogens in HIV/AIDS patients; Detection of Entamoeba histolytica/dispar complex using Entamoeba and Entamoeba histolytica II ELISA Techlab kits.</i>

Name and type of organisation providing education and training	Pasteur Institute of Bangui, Central African Republic
Dates	2000 (3 months)
Title of qualification awarded	Certificate Equivalent to DEA (Diplome des Etudes Aprofondis)
Principal subjects/occupational skills covered	Medical Bacteriology Advanced Course
Name and type of organisation providing education and training	Pasteur Institute of Paris, France
Date	1997-1999
Title of qualification awarded	Master studies
Principal subjects/occupational skills covered	Taxonomy
Name and type of organisation providing education and training	University of Bucharest, Faculty of Biology
Date	1992-1997
Title of qualification awarded	Diploma in Biology, Specialization Medical Biology
Principal subjects/occupational skills covered	Title of graduation work: 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; **2nd, 3rd Workshops of National Data Managers of EARSS**, Bilthoven, 2001; 2004; **18th 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; **1st 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; **ROWER Workshops**- Izmir, 2008, Sinaia, 2010; Flow cytometry workshops (2013, 2014), Bucharest, Romania, **Workshop - Pharmacogenomics and risk management in personalized cancer treatment**, 2016, Bucharest, Romania; **Workshop - Natural versus anthropogenic causes of climate variability and feedback from bio-geo-chemical processes** (NatClimVar), 2017, Bucharest, Romania

Personal skills and competences

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

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

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 the 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

research

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:

- 15 national projects
- 5 international (EARSS, PHARE, InfectEra, M-Eranet)

Member in the research team:

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

Publications

- First/main author 3 books, >20 chapters in books
- Coauthor – 4 books, 9 textbooks, 1 national guide, 1 dictionary of specialty terms, 13 patents
- 235 publications *in extenso*
- >160 posters and communications with abstracts published in proceedings of national and international congresses and meetings

Project manager – national projects:

1. **PN-III-P3-3.1-PM-RO-CN-2018-0147** - - In silico and experimental studies of mobile genetic platforms of multiple antibiotic resistance
2. **PN-III-P4-ID-PCE-2016-0921-** *Rapid flow-based cytometry method for detecting microorganisms and testing antibiotic susceptibility directly from clinical samples*
3. **PN-III-P4-ID-PCCF-2016-0114-** *Selection and dissemination of antibiotic resistance genes from wastewater treatment plants in the aquatic environment and the clinical sector*
4. **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*
5. **PN II PCCA 215 2014-2016** – *Innovative nanostructured materials and coatings with antimicrobial activity for medical applications.*
6. **Human Resources- PN-II-RU-TE-2014-4-2037-***Risk assessment of transposon-mediated transfer of some carbapenemase gene*
7. **Human Resources 135/2010** *The correlation of Pseudomonas aeruginosa and Staphylococcus aureus virulence and/or resistance pattern with the clinical outcome of nosocomial infections*
8. **Ideas 296/2007 (2007-2010)** *The role of heat shock proteins in bacterial pathogenesis and their potential use in developing new antimicrobial strategies*
9. **CNCSIS 187 (2007-2009)** *The role of P. aeruginosa bacterial pheromones in the modulation of host-bacterial cell interaction during the infectious process*
10. **CEEX 1460 (2006-2008)** *Novel strategy for attenuation of bacterial pathogenicity and virulence based on QS inhibitors*
11. **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*
12. **UEFISCDI 2014; 2018** - Romanian Biotechnological Letters – Financial support for journal publication

Project manager/Key person –international projects:

1. **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*
2. **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*
3. **M-ERA.NET Call 2016.** *Interfaces between materials and biological hosts for health applications Advanced biodegradable materials based on MgB2 resistant to microbial colonization. Acronym: BIOMB*

4. **EARSS Project-financed by DG-SANGO** (*European Antimicrobial Resistance Surveillance System*) (**National Data Manager** - 2001-2009)
5. **COFUND-JPI-EC-AMR-ARMIS / Contract 40 din 01/05/2018** - *Antimicrobial Resistance Manure Intervention Strategies*

Project responsible- national projects:

1. **PN-III-P1-1.2-PCCDI-2017-0686, PATCULT # RO-** *Complex multidisciplinary platform for integrative and systematic research of tangible and non-tangible cultural identities and cultural heritage in Romania*
2. **PN-III-P1-1.2-PCCDI2017-0629** *Innovative bionanomaterials for treatment and diagnosis.*
3. **PN-III-PED 234** -*Sustainable materials based on zinc oxide for antimicrobial applications.*

Member in the projects' research team: International:

1. **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*
2. **PROJEC COST B 23** (2004-2006) *Oral Facial Development and Regeneration.*
3. **Project M-ERA.NET (2013-2015)** *Ag/Si doped carbon layer for biomedical application (CarLa)*

National

1. **PN-III-P1-1.2-PCCDI2017-0782 (2018-2022)** *Advanced innovative approaches for predictive regenerative medicine*
2. **PN-III-P1-1.2-PCCDI2017-0728 (2018-2022)** *Integrated project for the development of technologies dedicated to advanced medical treatments*
3. **PDI-PFE-CDI ID 335-2018 2020** *Interdisciplinary Institutional Platform for Excellence in Research, Development, Innovation and Professional Training in Archaeological Sciences.*
4. **PN III-P1-1.2-PCCDI-2017-0473 (2018-2022)** *From classical nutrition to precision nutrition in animal breeding, the scientific basis for ensuring the nutritional security of the population*
5. **PN II 1172/2007 (2007-2010)** *Partnership for the purpose of synthesis, physico-chemical characterization and testing of biological activity of new thioumids with potential anti-infectious action*
6. **PN-III-P1-1.2-PCCDI-2017-0428 (2018-2022)** *Innovative nanotechnologies based on polymers for obtaining new advanced materials*
7. **PN-III-P1-1.2-PCCDI-2017-0743 (2018-2022)** *Interinstitutional program for the development of advanced solutions based on eco-nanotechnologies for multifunctional treatments of textile and leather materials*
8. **PN-III-P2-2.1-PED-2016-1008 (2016-2018)** *Elaboration of a functional model of microbial combustion cells for the production of bioelectricity with the simultaneous treatment of municipal wastewater*
9. **PN-III-P2-2.1-PED-2016-0910 (2016-2018)** *Innovative surface design for prolonging the use period and the safety of dental and orthopedic implants*
10. **PN-III-P4-ID-PCE2016-0884** - *Release of antimicrobial peptides mediated by innovative multifunctional nanoparticles for improved performance of medical implants*
11. **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*
12. **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*
13. **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*
14. **TE 372/2015-Magnetite nanoparticles** *functionalized with natural compounds modulatory effect on Pseudomonas aeruginosa virulence and persistence.*
15. **PCCA 259/2014-Bioceramic composites** *with local applications in antibacterial therapy.*
16. **PN-II-PT-PCCA-2011-3.1-0621 (2013-2015)** *Selection of new functional strains of lactic bacteria isolated from plant materials, with applications in food biotechnologies.*
17. **PN-II-PT-PCCA-2013-4-1292 (2013-2015)** *Innovative nanostructured materials and coatings with antimicrobial activity for medical applications*
18. **PN-II-PT-PCCA-2013-4-2087 (2013-2015)** *Integrated system for biomolecular modeling, applicable to the study of Gram-negative bacteria*
19. **PN II 3.1-0969 (2012-2014)** *Innovative Multidisciplinary research to investigated the effects of probiotic lactic acid bacteria strains and new consortia (Prolab)*
20. **PN II 3.1-0969 (2012-2014)** *Innovative, multidisciplinary research to investigate the probiotic effects of new lactic acid bacteria strains and consortia (Prolab)*
21. **94/PN2/PCCA (2012-2014)** *New nanostructured prosthetic devices with improved anti-biofilm activity (AntiBioTube)*
22. **PCCA 87/2014-Textile innovative photocatalytic antibacterial and self-cleaning properties**
23. **CNCSIS 134 (2010-2013)** *Study of molecular mechanisms of the antimicrobial activity of some probiotic bacteria against urogenital pathogenic agents*
24. **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*
25. **PN II 61-046 (2007-2010)** *Research on obtaining new classes of antimicrobial agents: synthesis, characterization, physico-chemical and biological screening of new thioureides*

26. **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*
27. **PN II 62-071 (2008-2011)** *Getting a topic phytoproduct efficient in stimulating the healing of skin lesions*
28. **Ideas 295/2007 (2007-2010)** *Alternative methods for demonstrating in vivo invasive potential of Shigella spp and enteroinvasive Escherichia coli strains*
29. **PN II 71-010/ (2007-2010)** *Biodegradability study of some composite materials with applications in cars industry*
30. **CNCSIS A 1312 (2007-2009)** *Evaluation and monitoring of the soluble mediators implicated in the regulation of bacterial cells growth by quorum sensing mechanisms*
31. **CNCSIS 187 (2007-2009)** *The role of Ps. aeruginosa bacterial pheromones in the modulation of host-bacterial cell interaction during the infectious process*
32. **CNCSIS 1679 (2007-2009)** *Selecting and monitoring the effectiveness of ecological alternatives to combat opportunistic infections and antibiotic resistant bacteria included in biofilms*
33. **CEEX_86/2006- (2006-2008)** *Application of accelerated electron beam for the microbial decontamination of nutritive supplements of vegetal origin*
34. **CEEX_85 (2006-2008)** *Interdisciplinary research for obtaining new antimicrobial agents, physico-chemical characterization and antimicrobial activity*
35. **CEEX (RELANSIN) 199 (2006-2008)** *Control of human and bacterial cells interaction with nanostructured surfaces to obtain intelligent biosurfaces*
36. **PN II 61-047 (2006-2008)** *Interdisciplinary research for obtaining new antimicrobial agents, physico-chemical characterization and anti-infectious activity*
37. **CEEX (VIASAN) 142 (2006-2008)** *Setting 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*
38. **CEEX (RELANSIN) 129 (2006-2008)** *Novel nanostructured materials with biocompatible properties for biomedical applications*
39. **CEEX (VIASAN) (168/2006)** *Study of antibiotic resistance mechanisms by impermeability in Gram-negative bacteria on natural and reconstituted membranes*
40. **CERES. 4 – 128 (2004-2006)** *Bioactive species processed as infectious agents inhibitors*
41. **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"*
42. **MATNANTECH 204 (403) (2004 2006)** *Complex nanospecies, biomaterials with anti-infectious action*
43. **VIASAN 239 (2004-2006)** *Virulence and pathogenicity of Aeromonas sp. strains with different sources of isolation*
44. **VIASAN 443 (2004-2006)** *Local immunisation methods for the management of periodontal disease*
45. **BIOTECH-292- (2004-2006)** *Setting up a standardized microbial collection laboratory*
46. **AGRAL 212 (2003-2005)** *Biotechnological evaluation and demonstration of some ecologic alternatives with potential applications in monogastric animals growing*
47. **VIASAN 224 (2003-2005)** - *Pilot program for the surveillance of antibiotic resistance.*
48. **VIASAN 065/(2001-2003)** *Genotypic and Phenotypic characterization of Vibrio cholerae strains isolated in Rep. Moldova during 1995-2000*

Postdoctoral research coordinator

1. **PN-III-P1-1.1-PD-2016-1798** - *Pilot study on the evaluation of the role of wastewater in the dissemination of carbapenem resistant Pseudomonas aeruginosa and Acinetobacter baumannii clinical strains into the aquatic ecosystem*
2. **PN-III-P1-1.1-PD-2016-2137-** *Mapping the insertions of transposons associated with the phenomenon of anti-resistance.*

Contracts with industry

1. 17654 / 13.10.2009
2. 21737/2012
3. 9489 / 25.06.2008
4. GJ208 / 05.12.2008

Participation to scientific congresses, workshops:

National

- D. Brandza Botanical Garden Conference, Cantacuzino Institute Days, Balş Institute Days - 2018
- OBBCSSR National Conference, UMF Congress -2017
- MEDICS, April 14-17, 2016
- SIMI, Bucharest, 2016
- Diaspora Conference, April 25-28, 2016, Timisoara, Romania
- Conference of the Doctoral School of Biology of the Lower Danube University, June, 2016
- UNAS National Congress (National Union of Dentists in Romania), 2009 Annual participation to the National Meeting of Romanian Society of Microbiology Acad. N. Cajal Symposium, National Flow Cytometry Congress
- Romanian Society for Cell Biology at 25 years, Anniversary workshop "From Basic Science to Therapeutic Applications", Bucharest 6-10 June 2007
- The 6th Seminar of NanoScience and Nanotechnology, Romanian Academy, 26 March 2007
- Workshop PROBIOTICS – An alternative to conventional treatments , 2010

Workshop "Medical significance of microbial biofilms", Bucharest, November, 2008
National Congress UNAS (National Union of Romanian Dentists), 2009
ICDPP Symposium (scientific research and development for plant protection) 2010
Veterinary Medicine Simposium, Bucuresti, 2008

International

1. BALKAN FUNGUS, SOMED-2018
2. SOMED, ROCAM, FEMS-2017
3. FISH, Edinburgh, November, 2016
4. EQALM; Barcelona, October, 2016
5. ICAAC, California, October, 2016
6. Vilnius International Communicable Disease week (26 Iunie-1 Iulie, 2016, Vilnius, Lithuania)
7. ECCMID- European Congress of Clinical Medicine and Infectious Diseases – annual participation during 2002- 2010
8. Federation of European Microbiological Societies Congress (FEMS) – 2006, 2011
9. Meeting of the Three Divisions of the International Union of Microbiological Societies, Bulgaria, 2008
10. Microbiologia Balkanica, Bucharest, Romania, 2005
11. Genomes 2008. Functional Genomics of Microorganisms, Paris, 8-11 April, 2008
12. Federation of European Biochemistry Societies Congress- 2007, 2008
13. 31st International Symposium on HPLC and Related Techniques, June, 2007
14. VIBRIO 2007 Conference, 25 Nov. – 1 Decembrie, Paris, Franta
15. Genetics and Mechanisms of Susceptibility to Infectious Diseases 21-24 Nov. 2007, Paris
16. International Congress of Nosocomial Infection Prevention, Lednice, 27-29.5.2007
17. *Data mining and Data managing workshop*, Bilthoven, Holland, 2006
18. *Workshop data analysis and interpretation in Excel- EARSS datamanagers workshop*, 2006, RIVM, Bilthoven, The Netherlands
19. 1st International Medicinal and Aromatic Plants Conference on Culinary Herbs, 2007, Antalya, Turkey
20. International congress fPEDon microbial ecology and disease (SOMED) –2007, 2010, 2011, 2012
21. Le quatrieme colloque Franco-Roumain de Chimie Apliquee, Clermont-Ferrand, France, 2006
22. 7th International Symposium on the Biology of *Acinetobacter*, Palma de Majorca, 2006
23. International Conference on Surgical Infections, 2006, Stockholm, Sweden
24. Black Sea basin conference on analytical chemistry, 2005
25. *ROWER Workshops*- 2009, 2010
26. *International Workshop on Quantitative Biology*, 2007, Bucharest, Romania

Organisational skills and competences

Member in the organizing committee

1. *Congress of the Romanian Society of Cytometry*, 2014, 2015
2. *Beginners and advanced courses of flow cytometry* 2014, 2015
3. National Conference of OBBCSSR, 2012
4. 2nd *ROWER Conference on Occupational Health and Safety Economics*, 2011
5. Member in organizing committee and invited speaker "Management and quality assurance in medical laboratories. Conventional and modern microbiological and immunological methods" – Bucharest, 2007
6. Member in organizing committee and invited speaker „Follow up QA/QC and reference laboratory”, Bucuresti, 28-30 Sept. 2005
7. Coordinator "Quality assurance in antimicrobial susceptibility testings", 11-12 October, 2001, Bucharest, Romania, Romanian Society of Microbiology
8. 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

1. First Boehringer Ingelheim National Livestock Conference, Romania, 17-19 May, 2019, Poiana Brasov
2. Project closure meeting ERANET HCVCYSPROT Identification of first in class chemical scaffolds against Hepatitis C Virus NS2 cysteine protease (www.hvcysprot.com), Bucharest, 2018
3. 3. ADVANCED OPTICAL MICROSCOPY IN MICROBIOLOGY AND IMMUNOLOGY, IUNIE, VALENCIA, 2017
4. 5.The 56th Edition of the Romanian Academy Scientific Session, December, 2016
5. ROCAM, Bucharest, 2017
6. International Conference of the Doctoral School of Dunarea de Jos Universitu, Galati, 2016
7. International Workshop - "Natural versus anthropogenic causes of climate variability and feedback from bio-geo-chemical processes (NatClimVar), 18-22 Octombrie, 2016, București, Romania
8. International Workshop –Application of flow cytometry in microbiology- 2014
9. European Congress of Cell Analysis (ECCCA), Lisbon, 2014;
10. EQALM (European organization for external Quality Assurance providers for Laboratory Medicine) Symposium, Bucharest, 2013 ;
11. 22nd ECCMID (European Congress for Clinical medicine and Infectious Diseases), London, April 2012;
12. Conference -Diaspora in Romanian Scientific Research and Education, Bucharest, September 25-28, 2012;
13. 2nd ROWER Conference on Occupational Health and Safety Economics; 2011;
14. 1st ROWER Conference on Occupational Health and Safety Economics, 2010;
15. *ROWER Workshops*- 2009, 2010;
16. *Data mining and Data managing workshop*, Netherlands, 2006;
17. *Data analysis and interpretation in Excel- EARSS datamanagers workshop*, 2006, RIVM, Bilthoven, The Netherlands;
- 27.

18. *New antimicrobial strategies based on the modulation of intercellular signalling mechanisms in bacteria mediated by quorum-sensing-16^h* International conference on control systems and computer science, "POLITEHNICA" University of Bucharest, Bucharest, Romania, 2007;
19. *Water microbiological control, infectious diseases and public health- Seminar* Schleicher and Schuell, 2002, February, Brasov, Romania.

Member in the scientific committee

1. Workshop *Aware ERANET project-*, Bucharest, Romania, 2019
2. Workshop *ARMIS ERANET project -* Bucharest, Romania, 2019
3. Workshop - *Pharmacogenomics and risk management in personalized cancer treatment*, Bucharest, Romania, , 2016
4. Workshop- *Natural versus anthropogenic causes of climate variability and feedback from bio-geo-chemical processes* (NatClimVar), Bucharest, Romania, 2016
5. ICUB BIS Workshops I, II -2016
6. Coordinator *Atelier pratique- Le diagnostic des diarrhees au cours du SIDA de l' adulte*", Bangui, Republique Centrafricaine, 1999, Pasteur Institute of Bangui
7. *2nd ROWER Conference on Occupational Health and Safety Economics*
8. Coordinator "Quality assurance in antimicrobial susceptibility testings", 11-12 October, 2001, Bucharest, Romania, Romanian Society of Microbiology
9. Member in organizing committee and invited speaker „Follow up QA/QC and reference laboratory’, Bucharest, Romania, 2005
10. Workshop -*Medical significance of microbial biofilms*, Bucharest, Romania 2008
11. Member in organizing committee and invited speaker "Management and quality assurance in medical laboratories. Conventional and modern microbiological and immunological methods" – Bucharest, 2007

Member of professional associations/societies

ESCMID (European Society for Clinical Microbiology and Infectious Diseases), **EARSS** (European Antimicrobial Resistance Surveillance System), **SRM** (Romanian Society of Microbiology), *Balkan Medical Union*, **FEMS** (European Federation of Microbiology Societies), *Romanian Association of Flow cytometry*, **FEBS** (Federation of Biochemistry Societies), **ESCCA** (European Society for Clinical Cell Analysis), **ACR** (Romanian Association of Cytometry), **CALILAB**- Asociația pentru calitate în laboratoare, **OBBCSSR**, **SOMED** (Society of Medical Ecology and Disease)

Professional visibility

Prizes

- a. 2 gold medals for two patents
- b. The 3rd prize for the poster presented to The Anniversary Conference of the Institute of Biology – 50 years of Academic Research in Microbiology, 2010
- c. The prize of the *Romanian Society of Microbiology* for 2 posters presented to the Romanian Conference of Microbiology, 2007

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

Invited Editor

Invited guest editor-

- a) *special issue for Current Organic Chemistry (factor de impact 2,9; SRI 2)* (Topic: Quorum sensing inhibitors: synthesis, optimization, and emerging biomedical applications- <http://www.eurekaselect.com/107468/article>)
- b) *Curr Top Med Chem* (Topic: Micro and Nanoscale Materials for Boosting the Antimicrobial Fight) (Factor de impact 3,4) <http://www.eurekaselect.com/130282/article>
- c) *Curr Top Med Chem* (Thematic Issue: Nanobioactive Structures for Drug Targeting and Delivery) (Factor de impact 3,4) <http://www.eurekaselect.com/130281/article>
- d) *Molecules* (Factor de impact 3) *Synthetic Antibiofilm Agents: Design, Synthesis and Applications*) https://www.mdpi.com/journal/molecules/special_issues/Synthetic_Antibiofilm
- e) *Coatings* (Factor de impact 2,33) Special Issue *Antimicrobial/Antibiofilm Surfaces* https://www.mdpi.com/journal/coatings/special_issues/Antimicrobial_Antibiofilm_Surf
- f) *Materials* (Factor de impact 2.9) *Antimicrobial Bio-Nanomaterials: Current Progress and Challenges for Translating Them into the Clinical Practice* https://www.mdpi.com/journal/materials/special_issues/adv_bio_nano_curr_prog_chall_trans_clinic_prac

Editor of national journals

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

Projects Evaluator—Ideas Projects, Human Resources, Bilateral Projects RO-Rep. Moldavia, RO-France, Competitions 2008, 2012, ERA-NET, research projects within the University of Missouri system, research Belgium. Israel

Hirsch index- 32 (SCOPUS), **29** (WOS) >4000 citations (source: SCOPUS)

**Refferee – for journals ISI si IDB
International**

JCAB, PLOS One, Scientific Reports Nature, Molecules, Pathogens, Frontiers in Microbiology, Helyon, APSUSC, CARBPOL, STOTEN, COLSUA; MATCHEMP, IJMS, AJFS, JMPR, IJB, IRJM, IJFA, AJMR, Journal of JMMS, AJPP; AJB; IRJPP, JVS; AJP, JBR, JMA, RJPS, COC, FPD; CP, JMM, RBL, RAMI, RJB; BRIAC; LIANBS etc.

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

Artistic skills and competences Archaeological reproductions painting

Other skills and competences Labeling historical monument buildings from three historical cities of Romania, i.e. Bucharest, Curtea de Arges, Campulung (>500 monuments) (as Board member of APMNIR- Friends of Romanian National History Museum) (www.monumenteromania.ro); public conferences 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, Sacred Architecture (as Member of the Cultural Association New Akropolis- www.noua-acropola.ro)).

Driving licence No

October 2020

Prof. Mariana Carmen Chifiriuc