

## Senior Researcher, Dr. Alina BUTU

### **ACTUAL POSITION**

*Scientific Director, Head of Biotechnology Department - National Institute of Research and Development for Biological Sciences, Bucharest, ROMANIA*



### **ACADEMIC QUALIFICATION**

*PhD in Physics, specialization Biotechnology,*

*Magna cum laudae – 2005, Faculty of Physics, University of Bucharest, ROMANIA;*

*Physicist engineer in biotechnology – 1994, Faculty of Physics, University of Bucharest, ROMANIA;*

### **RESEARCH INTEREST**

**Microbial and environmental biotechnology:** *isolation and screening of microorganisms and microbial consortia for accumulation of polluting compounds; practical applications for exploiting the potential of microorganisms for soil, air and water bioremediation; microorganisms useful for biomining - identification of microorganisms involved in the process of metal extraction – bioleaching, bioaccumulation, biooxidation; optimal conditions for cultivation of microorganisms at the laboratory level and micropilot; testing of new culture media using agricultural, industrial and domestic waste for producing microbial biomass.*

**Bioinformatics:** *molecular dynamics simulation of biomolecules.*

### **SCIENTIFIC PUBLICATIONS / AWARDS**

**Author/co-author of more than 100 articles in ISI/BDI Journals, 4 patents and 8 books/book chapters.**

#### **Prizes**

- Patent Prize 122437 – CNCSIS 2009
- Patent Prize 122438 – CNCSIS 2009
- First prize and gold medal INVENTIKA, Bucharest, ROMANIA, October 6 – 9, 2010
- Special prize of Republic of Moldova, INVENTIKA, Bucharest, ROMANIA, October 6 – 9, 2010
- First prize and gold medal INNOVA, Bruxelles, BELGIUM, November 18 – 20, 2010
- Diploma of Excellence and Bronze Medal for Patent 125078/ 28.01.2011, PROINVENT 9th edition, Cluj-Napoca, Romania, March 22-25, 2011
- Diploma of Excellence and Bronze Medal for Patent Request A/01005 / 22.10.2010, PROINVENT 9th edition, Cluj-Napoca, Romania, March 22-25, 2011
- Romanian Academy Prize “Traian Savulescu”, 2016

**Member in Executive Committee of professional associations**

- President of Biophysics and Medical Physics section – SRF, 2017 - present
- Vice-president of Biophysics and Medical Physics section – SRF, 2009-2013 (first mandate), 2013- 2017(second mandate)
- Secretary of Bucharest Branch – SRF, 2009-2013

**Member of professional associations:** European Peptide Society; European Physical Society; American Peptide Society; European Federation of Biotechnology; The Phytochemical Society of Europe (RSE); Italo-Latin American Society of Ethnomedicine; Chemical, Biological & Environmental Engineering Society; Society of Bioengineering and Biotechnology (SRBB); Romanian society of Biochemistry and Molecular Biology, FEBS affiliated; Romanian Society of Physics (SRF); Romanian Chemical Engineering Society, EFCE affiliated; Romanian Chemistry Society - Biotechnology section

**Internship Programs Tutoring**

- Internship Program Laval Institut Universitaire de Technologie, University of Maine, France, 2011
- Internship Program Faculty of Biotechnology, USAMV Bucharest, 2011
- Internship Program the University of Edinburgh, UK, 2011
- Internship Program Ecole de Biologie industrielle, Paris, France, 2013
- Professional internship program Technical High school Fierbinți, 2013 – 2014
- Internship Program Politechnics University of Bucharest, 2012-2013

**Other Information**

- Expert evaluator in POS-CCE, POC, PN II and PN III competitions;
- Keynote/invited speaker for more than 20 international conferences
- Member for over 25 international scientific manifestation committees;
- Member of editorial/reviewer committee for over 10 ISI/BDI journals;
- Project Director for over 20 projects (5 international) and Member of Research Team for over 45 research projects.

<http://www.researcherid.com/rid/F-5950-2016>

<https://scholar.google.ro/citations?hl=ro&user=bLoD-6UAAAAJ>

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