

## PERSONAL INFORMATION

**Marius Stefan**

📍 „Alexandru Ioan Cuza” University, Faculty of Biology, B-dul. Carol I, nr. 20 A, 700506 Iasi (Romania)

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## WORK EXPERIENCE

15/02/2016–Present

**Professor**

„Alexandru Ioan Cuza” University of Iași, Department of Biology, Faculty of Biology, Iasi (Romania)

Education and research

01/10/2014–15/02/2016

**Associate Professor**

„Alexandru Ioan Cuza” University of Iași, Department of Biology, Faculty of Biology, Iasi (Romania)

Education and research

10/10/2007–2014

**Lecturer**

„Alexandru Ioan Cuza” University of Iași, Department of Biology, Faculty of Biology, Iasi (Romania)

Education and research

15/02/2001–10/10/2007

**Teaching assistant**

„Alexandru Ioan Cuza” University of Iași, Department of Biology, Faculty of Biology, Iasi (Romania)

Education and research

## EDUCATION AND TRAINING

2014

**Habilitation thesis - BACTERIAL BIOTECHNOLOGICAL APPLICATIONS: FROM PLANT GROWTH PROMOTION TO NEW NEUROPROTECTIVE DRUGS**

Alexandru Ioan Cuza University of Iasi, Iasi (Romania)

2011–2013

**Postdoctoral position - Microbiology, project title - THE IMPACT OF SOME RHIZOBACTERIA STRAINS ON RUNNER BEAN (PHASEOLUS COCCINEUS L.) PLANTS GROWTH AND DEVELOPMENT**

The University of Agricultural Sciences and Veterinary Medicine Iași, Iasi (Romania)

2001–2007

**Doctoral degree in Microbiology, thesis title: “Researches concerning the effect of rhizospheric microbiota on growth and development of some crop plants”,**

Alexandru Ioan Cuza University of Iasi, Iasi (Romania)

Microbiology

2000–2002 **Master’s degree – „Microbial biotechnologies”**  
Alexandru Ioan Cuza University of Iasi, Iasi (Romania)

1996–2000 **Bachelor’s degree in Biology**  
Alexandru Ioan Cuza” University of Iasi, Iasi (Romania)

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)

|         | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
|         | Listening     | Reading | Spoken interaction | Spoken production |         |
| English | C1            | C1      | B2                 | B2                | B2      |
| French  | B1            | B2      | B1                 | B1                | B1      |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills Good communication skills gained through my experience as teacher.  
Team spirit.

Organisational / managerial skills Good experience in project management.

Job-related skills **Teaching**  
1. General microbiology  
2. Microbial biotechnologies  
3. Soil Microbiology

**Research**  
General microbiology, Soil Microbiology, Microbial biotechnology.  
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Digital skills Good command of Microsoft Office (Word, Excel, Power Point),  
Basic knowledge of graphic design applications: Adobe Photoshop, Correl Draw.

ADDITIONAL INFORMATION

Management Head of Biology Doctoral School, from 1st of August 2017

Projects Project leader  
International:  
2019-2020 Module III, Bilateral cooperation (Romania-France), 490/26.07.2019: NEW SYNTHETIC FLAVONOIDS WITH ANTIMICROBIAL PROPERTIES  
2015-2017 Module III, Bilateral cooperation (Romania-France), 780/30.06.2014: APPLICATIONS OF BIOMOLECULES WITH ANTIFUNGAL PROPERTIES IN PLANT PROTECTION  
2016-2018 Module III, Bilateral cooperation (Romania-South Africa): THE STUDY OF ZEA MAYS L. AND VIGNA UNGUICULATA (L.) WALP. RHIZOSPHERE BIODIVERSITY - PREMISE FOR BIOECONOMICAL APPLICATIONS  
National:  
2007-2010 PNCDI II, Contract IDEI, nr. 249/01.10.2007, cod CNCSIS 440: IMPACT OF SOME RIZHOBACTERIA STRAINS ON GROWTH AND DEVELOPMENT OF SOYBEAN PLANTS (GLYCINE MAX L. MERR)  
2006-2007 Grant CNCSIS, tip TD, nr. 459, IMPACT OF RHIZOSPHERIC MICROORGANISMS

## (PGPR) ON GROWTH AND DEVELOPMENT OF SOME CROPS

- Memberships** Romanian Society of Microbiology;  
Romanian Society of Limnology;  
National Society of Cellular Biology;  
Romanian Society of Pure and Applied Biophysics.
- Publications** Relevant publications:
1. Babii, C., Mihalache, G., Bahrin, L.G., Neagu, A.N., Gostin, I., Mihai, C.T., Sarbu, L.G., Birsa, L.M., **Stefan, M.**, 2018 - *A novel synthetic flavonoid with potent antibacterial properties: In vitro activity and proposed mode of action*, PLOS ONE, 1-15.
  2. Babii, C., Bahrin, L.G., Neagu, A.-N., Gostin, I., Mihasan, M., Birsa, L.M., Stefan, M., 2016 - *Antibacterial activity and proposed action mechanism of a new class of synthetic tricyclic flavonoids*. Journal of Applied Microbiology, 120, 630-637.
  3. Hritcu, L., **Stefan, M.**, Brandsch, R., Mihasan, M., 2015 - Enhanced behavioral response by decreasing brain oxidative stress to 6-hydroxy-L-nicotine in Alzheimer's disease rat model, Neuroscience Letters, 591: 41-47.
  4. Bahrin, L.G., Apostu, M.O., Birsa, L.M., **Stefan, M.**, 2014 - The antibacterial properties of sulfur containing flavonoids, Bioorganic & Medicinal Chemistry Letters, 24: 2315-2318.
  5. Mihasan, M., **Stefan, M.**, Hritcu, L., Brandsch, R., 2013 - Evidence of a plasmid-encoded oxidative xylose catabolic pathway in *Arthrobacter nicotinovorans* pAO1, Research in Microbiology, 164: 22-30.
  6. **Stefan, M.**, Melnig, V., Pricop, D., Neagu, A., Mihasan, M., Tartau, L., Hritcu, L., 2013 - Attenuated effects of chitosan-capped gold nanoparticles on LPS-induced toxicity in laboratory rats, Materials Science and Engineering: C Materials for Biological Applications, 33: 550-556.
  7. **Stefan, M.**, Munteanu, N., Stoleru, V., Mihasan, M., Hritcu, L., 2013 - Seed inoculation with plant growth promoting rhizobacteria enhances photosynthesis and yield of runner bean (*Phaseolus coccineus* L.), Scientia Horticulturae, 151: 22-29.
  8. Noumedem, J.A.K., Mihasan, M., Lacmata, S.T., **Stefan, M.**, Kuate, J.R., Kuete, V., 2013 - Antibacterial activities of the methanol extracts of ten Cameroonian vegetables against Gram-negative multidrug-resistant bacteria, BMC Complementary and Alternative Medicine, 13:26, 1-9.
  9. Noumedem, J.A.K., Mihasan, M., Kuate, J.R., **Stefan, M.**, Cojocaru, D., Dzoyem, J.P., Kuete, V., 2013 - In vitro antibacterial and antibiotic-potential activities of four edible plants against multidrug-resistant Gram-negative species, BMC Complementary and Alternative Medicine, 13, Article Number - 190.
  10. **Stefan, M.**, Hritcu, L., Mihasan, M., Pricop, D., Gostin, I., Olariu, R.I., Dunca, S., Melnig, V., 2011 - Enhanced antibacterial effect of silver nanoparticles obtained by electrochemical synthesis in poly(amide-hydroxyurethane) media, Journal of Materials Science: Materials in Medicine, 22: 789-796.
- Books:**
- Simona Dunca, Octăvița Ailiesei, Erica Nimițan, **Marius Ștefan**, 2005 – Elements of Microbiology - Ed. Junimea, Iași, ISBN: 973-37-1042-3, vol I, p. 268.
  - Simona Dunca, Octăvița Ailiesei, Erica Nimițan, **Ștefan Marius**, 2007 – Applied Microbiology, Casa editorială Demiurg, Iași, ISBN: 973-7603-79-6, p. 300.
  - **Ștefan Marius**, 2008 – Biology of rhizospheric microorganisms – biotechnological applications, Ed. Tehnopress Iași, ISBN 973-702-597-5, p. 369.
  - Mihășan Marius, **Ștefan Marius**, Olteanu Zenovia, 2012 – Molecular biology – experimental methods, Ed. Universității Alexandru Ioan Cuza din Iași, ISBN 978-973-703-816-6, p. 354.
  - **Ștefan Marius**, 2014 - Applied microbiology: from plant growth promotion to new neuroprotective drugs, Ed. Universității Alexandru Ioan Cuza din Iași, ISBN 978-606-714-091-0, p. 213.
- Conferences** (selective)
1. International Congress EUROSIL 2008, Technical University Vienna, Austria.
  2. 11th International Congress on Amino Acids, Peptides and Proteins, 2009, Vienna, Austria.
  3. 22nd New Phytologist Symposium Effectors in plant-microbe interactions, INRA, Versailles, 2009, Paris, France.

4. The EMBO Meeting 2010, Barcelona, Spain.
5. 36th FEBS Congress 2011 Biochemistry for tomorrow's medicine, Torino, Italy.
6. 18th International Botanical Congress, Melbourne, Australia, 2011.
7. 43rd FEBS Congress 2018 Biochemistry forever, Prague, Czech Republic.
8. 44th FEBS Congress 2019 From molecules to living systems, Krakow, Poland.

- Associate editor**
- American Journal of Current Microbiology
  - International Journal of Microbiology Research
  - World Research Journal of Tropical Agriculture
  - Analele Stiintifice ale Universității Alexandru Ioan Cuza din Iasi, Sec. II a. Genetică și Biologie Moleculară
- Reviewer**
- PlosOne
  - Plant and soil
  - Archives of Agronomy and Soil Science
  - International Journal of Biomedical Nanoscience and Nanotechnology
  - International Journal of Nanomedicine
  - BMC Complementary and Alternative Medicine
  - Archives of Agronomy and Soil Science
  - African Journal of Microbiology Research
  - African Journal of Biotechnology
- Awards**
- 2016 – *Grigore Antipa* Romanian Academy Award