

## Beatrice Mihaela RADU

### PERSONAL INFORMATION



Previous name: **Macri**

📍 Department of Anatomy, Animal Physiology and Biophysics, Faculty of Biology, University of Bucharest, Romania

✉ beatrice.radu@bio.unibuc.ro

Sex F | Date of birth 27/08/1979 | Nationality Romanian

### WORK EXPERIENCE

February 2020- present

#### Professor

University of Bucharest, Faculty of Biology, Department of Anatomy, Animal Physiology and Biophysics, 91-95 Splaiul Independentei street, Bucharest, Romania

Type or activity field Teaching, research

Main activities and responsibilities

Teaching activity: Medical neurobiology (course and laboratory at master degree program), Biomedical microscopy (course and laboratory at master degree program)

Research activity: Project 146/2016 (UB project director)

July 2019 – present

#### Affiliation to the Doctoral School in Biology

December 2018

#### Habilitation in Biology

Habilitation thesis entitled: "Original contributions in molecular and cellular signalling pathways' discovery with implications in physiology and physiopathology of neuronal cells, uterine and endothelial interstitials" which was held on 7<sup>th</sup> December 2018

The order of granting the habilitation certificate: 4073/28.05.2019

February 2017-January 2020



### Associate Professor

University of Bucharest, Faculty of Biology, Department of Anatomy, Animal Physiology and Biophysics, 91-95 Splaiul Independentei street, Bucharest, Romania

Type or activity field Teaching, research

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Main activities and responsibilities

Teaching activity: Medical neurobiology (course and laboratory at master degree program), Methods of spectroscopy and microscopy in neurobiology (course and laboratory at master degree program)

Research activity: Project 146/2016 (UB project director)

July 2016- February 2017

### Lecturer

University of Bucharest, Faculty of Biology, Department of Anatomy, Animal Physiology and Biophysics, 91-95 Splaiul Independentei street, Bucharest, Romania

Type or activity field Teaching, research

Main activities and responsibilities

Teaching activity: Neurophysiology of cognitive processes (course at master degree program), Physics (Seminars, biochemistry, bachelor program), Biostatistics and experimental data processing (Seminars, master degree program), Ionic channels (seminars, master degree program)

Research activity: Project 82/2012 (UB project responsible)

February 2012- June 2016

Activity interruption at University of Bucharest based on Rector's decision

January 2014-September 2017

### PhD Student

University of Verona, Doctoral School of Neurosciences, Psychological and Psychiatric Sciences, 91-95 Le Grazie street, Verona 37134, Italy

Ministerial doctoral scholarship (Ministero dell'istruzione, dell'Universita e della Ricerca-MIUR)

Type or activity field Research

February 2012-December 2013

### Postdoc fellow

University of Verona, Doctoral School of Neurosciences, Psychological and Psychiatric Sciences, 91-95 Le Grazie street, Verona 37134, Italy

Cariverona Foundation scholarship

Pharmacog FP7 Project scholarship

Type or activity field Research

October 2008-January 2012

### Lecturer

University of Bucharest, Faculty of Biology, Department of Anatomy, Animal Physiology and Biophysics, 91-95 Splaiul Independentei street, Bucharest, Romania

Type or activity field Teaching, research

Teaching activity: Methods in spectroscopy and microscopy in neurobiology (course master degree), Physics (Seminars, biochemistry, bachelor program), Biophysics (laboratory biology bachelor program), Biophysics of the membranes (laboratory, master degree program)

Research activity: Project 62-061/2008 (UB project responsible), 61-011/2007 (UB project responsible), 61-016/2007 (UB project responsible), 41-074/2007 (consortium project director), capacities 158/2008 UB scientific director

October 2006-September 2008

### Assistant Professor

University of Bucharest, Faculty of Biology, Department of Anatomy, Animal Physiology and Biophysics, 91-95 Splaiul Independentei street, Bucharest, Romania

Teaching activity: Neurobiology (laboratory, biology bachelor program), biophysics

(laboratory, biology bachelor program), Physiology (laboratory, biology bachelor program)

Research activity: 61-011/2007 (UB project responsible), 61-016/2007 (UB project responsible), 41-074/2007 (consortium project director), CEEX 168/2006 (team member),

CEEX 2-Cex06-11-49/2006 (team member), CEEX 6109/2005 (UB scientific director),

CNCSIS 1030/2006 (team member)

January 2004- September 2004

### Doctoral fellowship

University Pierre and Marie Curie, Faculty of Medicine, INSERM U677, Neuropsychopharmacology, Blv de l'Hopital street, Paris, France

Research activity: ERASMUS-Socrates scholarship

Type or activity field Research, teaching

October 2003-September 2006

### Teaching assistant

University of Bucharest, Faculty of Biology, Department of Anatomy, Animal Physiology and Biophysics, 91-95 Splaiul Independentei street, Bucharest, Romania

Teaching activity: Biophysics (laboratory, biology bachelor program), Physiology (laboratory, biology bachelor program)

Research activity: CEEX 6109/2005 (UB scientific director), VIASAN 199/2003 (team member), CEEX 67/2005 (team member)

**EDUCATION  
AND TRAINING**

- 2014-2017 **PhD in Neurosciences, Psychological and Psychiatric Sciences**  
University of Verona, 91-95 Le Grazie street, Verona 37134, Italy  
Distinction: *Doctor Europaeus*
- 2002-2005 **PhD in Biology**  
University of Bucharest, Faculty of Biology, 91-95 Splaiul Independentei, Bucharest, Romania  
Distinction: *Cum Laudae*
- 2001-2003 **Master in Neurobiology**  
University of Bucharest, Faculty of Biology, 91-95 Splaiul Independentei, Bucharest, Romania
- 1997– 2001 **Bachelor in Physics, Biophysics section**  
Faculty of Physics, University of Bucharest, Romania
- 1993– 1997 **Bacalaureat**  
Ion Barbu Theoretical Highschool, Chemistry-Biology section, 18<sup>th</sup> Nabucului Street, Bucharest, Romania

**PERSONAL  
SKILLS**

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	C1	C1	C1	C1	C1
DALF Certificate- French Institute in Bucharest (2000)					
Italian	C1	C1	C1	C1	C1
Certified by Universita Degli Studi di Verona (2016)					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

**Communication skills** ▪ Good communication skills gained due to personal experience of project director/responsible in various research projects.

**Organisational / managerial skills** ▪ Good working skills gained within several international groups (University of Verona, Italy, University Pierre e Marie Curie, France)  
▪ Scientific managerial skills gained within European projects by participation at work meetings of the management group of FP7 EpimiRNA (2014, 2015) project, especially for scientific report at European Committee  
▪ Organisational/managerial skills gained within of 6 research projects as project director or responsible at University of Bucharest  
▪ HR managerial skills gained within these projects at University of Bucharest

## Job-related skills

- Scientific skills
- Laboratory waste management (2008-2011)
- Responsible for labour medicine (2008-2011)
- License to use laboratory animals (2012, University of Verona)

## Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Proficient user	Basic user	Independent user

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

ADDITIONAL  
INFORMATION

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### Project director/ responsible– national projects

- POC Axe 1 type E, nr. 146/2016, 2016-2020 *Development of automated patch-clamp technologies for pro-arrhythmogenic risk testing of drug candidates*, 1.000.000 euro (**Project director**)
- PCCA 82/2012, 2012-2016, *Myometrial interstitial cells Beat Morphological, Biophysical and bioelectrochemical characterisation. New perspectives in human uterine contractility and myometrial regeneration*, (**Project responsible**)
- PNCDI2 62-061 /2008, 2008-2011, *Elucidation of mechanisms of interaction between selected cytotoxic peptides with tumor cells, and optimize their anti-tumor properties* (**Project responsible**)
- PNCDI2 41-074/2007, 2007-2010, *Mechanisms of neuropathic pain in transgenic mice model for type 1 diabetes*, (**Project director/consortium**)
- PNCDI2 61-011/2007, 2007-2010 *Guiding neuronal extension growth and synapse formation with a multipoint optical tweezer*, (**Project responsible**)
- PNCDI2 61-016/2007, 2007-2010 *Molecular characterization of antimicrobial peptides action mechanisms and de-novo prediction of molecular structures with enhanced antimicrobial potential* (**Project responsible**)

### Team member – European projects

- 2014-2017, "MicroRNAs in the pathogenesis, treatment and prevention of epilepsy under an epileptogenic insult" European project FP7-EpimiRNA. (**Team member University of Verona**)
- 2013, "Prediction of cognitive properties of new drug candidates for neurodegenerative diseases in early clinical development", European project FP7-Pharmacog. (**Team member University of Verona**)
- 2012, "Molecular mechanisms controlling leukocyte trafficking in inflammatory processes"(WP4) financed by Fondazione Cariverona, VERONA NANOMEDICINE INITIATIVE (**Team member University of Verona**)

### Team member – national projects

- Capacities 158/2008, 2008-2010, Multinational platform of fluorescence microscopy and spectroscopy with electrophysiological and pharmacological applications in neuro- and cardiopathologies (**UB scientific director**)
- CEEEX 6109/2005, 2005-2008, Development of standardized natural products based on polyphenols through biodisponibility studies (**UB scientific director**),
- VIASAN 199/2003, 2003-2005, Modulation mechanisms of ionic channels activated in tissular acidose in ppheripheral nervous fibers and bloodvessels. (**Team member**)
- CEEEX 168/2006, 2006-2008, Antibody-resistant mechanisms study through impermeability to Gram-negative bacteria on natural and reconstituted membranes (**Team member**),
- CEEEX 2-Cex06-11-49/2006, 2006-2008, Nanoscopic investigations of the existent interactions between bacterial toxic membranes and the proteins implicated in the transport of several antibacterian agents through biomembranes. (**Team member**),
- CNCSIS 1030/2006, 2006-2008, The modulation of the ionic channels from ENaC/Deg family by the intracelular bivalent cations and their role in neuronal ischemia- possible pharmacological targets in stroke therapy (**Team member**)

### Evaluator – national grants

- PD and TE grant evaluator – competition 2019
- PD project grant evaluator and member of "Health" and "Biology and Ecology" Panels – competition 2016
- TE grant evaluator and member of "Health" Panel – competition 2016

### Distinctions

- 2018-2023, Merit ranking, Faculty of Biology, University of Bucharest
- 2016, The best student from Europe – Post-university category, granted by League of Romanian students from abroad
- 2015, DAAD fellowship for attending 1st BIGS Student Symposium in Neuroscience, Diez, Germany
- 2014, Ministerial doctoral fellowship with a 3 year-period from The Italian Ministry of Research and Education, Italy
- 2013, ISN travel grant for attending ISN/FENS School on Local protein synthesis in axons and dendrites, Kolymbari, Crete, Greece
- 2012, IBRO fellow (Young investigator program) in the Laboratory of Neuronal Circuits, Institute Cajal, Madrid, Spain
- 2011, IBRO fellow (Young investigator program), in the Department of Neurological, Neuropsychological, Morphological and Movement Sciences, Section of Anatomy and Histology, University of Verona, Verona, Italy
- 2010, ASCB travel grant for attending the 50th Annual Meeting of the American Society of Cell Biology, Philadelphia, Pennsylvania
- 2010, Eli Lilly travel grant for attending 17th Young Scientists Training Course, Heidelberg, Germany
- 2010, FEBS travel grant for attending 35th FEBS Congress Molecules of Life, Gothenburg, Sweden
- 2010, FENS / IBRO CEERC travel grant for attending 7th Forum FENS Forum of European Neuroscience, Amsterdam, The Netherlands
- 2006, FEBS travel grant for attending 6th Young Scientist Forum, Doga Club, Turkey and 31st FEBS Congress, Istanbul, Turkey.
- 2005, SFB travel grant for attending 5th European Biophysics Congress and 5th IUPAB joint

