



## Europass Curriculum Vitae

### Personal information



First name(s) / Surname(s) **Mihai Radu**  
Address(es) 73-75, Calea 13 Septembrie, Bucharest, Romania  
Telephone(s) Office 0040214046223 Mobile: 0723397592  
E-mail [mradu@nipne.ro](mailto:mradu@nipne.ro)  
Nationality Romanian  
Date of birth 1958, November 14  
Gender Male

### Work experience

Dates 2012-2016  
Occupation or position held Postdoctoral researcher  
Main activities and responsibilities *Main activities:* research focused on the role of brain endothelial cells in epilepsy. *Responsibilities:* calcium imaging, cell cultures (brain endothelial cells – primary and immortalized cells), installation of new set-ups (patch clamp and calcium imaging), preparing samples for qRT-PCR, WB and IF analysis  
Name and address of employer University of Verona, Department of Neurological and Movement Sciences, Strada Le Grazie 8, 37134, Verona, Italy  
Type of business or sector Research.

Dates 1987-present  
Occupation or position held Researcher (1987-2001), senior researcher (2001-present), scientific director (2017-present)  
Main activities and responsibilities *Main activities:* research in the field of cellular and molecular biophysics: radiobiology, protein-lipids bilayer interaction, oxidative stress involved in ionizing radiation effects on living matter and in large impact diseases (diabetes, cardiovascular and neuronal diseases), biocompatibility of materials, development of fluorescence techniques for molecular and cellular investigation  
*Responsibilities:* project management and execution.  
Name and address of employer Horia Hulubei National Institute for Physics and Nuclear Engineering (IFIN-HH), Atomistilor 407, Magurele, 077125, Romania  
Type of business or sector Research.

Dates 2003-2011  
Occupation or position held Associate Professor  
Main activities and responsibilities *Main activities:* education (courses in the field of effects of electrical fields on living matter and fluorescence microscopy) and research (effects of variable electrical fields on cells in suspensions)  
*Responsibilities:* teaching, project execution.

Name and address of employer	Carol Davila University of Medicine and Pharmacy (UMF Carol Davila), Department of Biophysics and Cellular Biotechnology; Eroilor Sanitari Street 8, Bucharest, Romania
Type of business or sector	Education and Research
Dates	2002-2005
Occupation or position held	Associate Professor
Main activities and responsibilities	<i>Main activities:</i> education in biophysics (theoretical and practical courses in Physics and Biophysics) <i>Responsibilities:</i> teaching
Name and address of employer	University of Bucharest, Faculty of Biology, Department of Animal Physiology and Biophysics, Splaiul Independentei, 91-95, Bucharest, Romania
Type of business or sector	Education
Dates	1983-1987
Occupation or position held	Physics teacher.
Name and address of employer	No 1 Highs School, Cugir, Alba county, Romania
Type of business or sector	Education
Visiting scientist	<i>Nov01,1999-Oct30, 2000:</i> Postdoctoral fellow at Department of Biophysics and Biophysical Chemistry, Faculty of Chemistry, University of Bielefeld, Bielefeld, Germany: research in the field of DNA passage through lipid bilayer investigated by voltage clamp and fluorescence techniques <i>May15-Aug08, 2002; Aug04-Sep29, 2003; Nov01-Dec22,2003; Jan01-Mar12, 2004:</i> Stages in a postdoctoral position at Department of Physiology, Faculty of Medicine, Hasselt University, Hasselt, Belgium (former LUC, Diepenbeek, Belgium), Research in the field of concentration of cytosolic ions and membrane lipids organisation by microfluorimetry technique (wide field fluorescence microscopy, confocal microscopy, FRET). <i>Jan 2012-2016:</i> postdoctoral fellow at Faculty of Medicine, Univeristy of Verona, Italy; research focused on the neurovascular unit role in neurodegenerative diseases.
Review panels, editorial boards, and affiliation to professional societies	<i>1995-present:</i> Referee (occasionally) for the journals in different topics (e.g.: Bioelectrochemistry, Journal of Peptide Science, British Journal of Medicine and Medical Research, etc.) <i>2010:</i> Member in the scientific panels for evaluation of project proposals (Biology committee) at the national scientific grants competition. <i>2007-present:</i> Editorial board, Romanian Journal of Biophysics ( <a href="http://www.biophysicsnet.ro/rjb">www.biophysicsnet.ro/rjb</a> ) <i>2013-present:</i> Editorial Board, International Journal Bioautomation ( <a href="http://www.clbme.bas.bg/bioautomation/">http://www.clbme.bas.bg/bioautomation/</a> ) <i>1995-present:</i> Member of Romanian Society of Pure and Applied Biophysics (affiliated to EBSA and IUPAB); 2004-2006, secretary of Bucharest branch <i>2005-present:</i> Member of Bioelectrochemistry Society <i>2009-present:</i> Member of European Society of Microscopy <i>2011-present:</i> Member of Biophysical Society
Publications	62 papers (see Publication list) in peer review journals, 4 book chapters, 1 patent (registered application), Hirsh index 12 (web of sci)
Projects	6 national grants (principal investigator), 4 collaborative national grants (institute team leader), 1 international bilateral collaboration grant (Romanian team leader), 1 COST network (representative of Romania)

## Education and training

Dates	<b>1990-1999</b>
Title of qualification awarded	<b>PhD (in Physics/Biophysics)</b>
Principal subjects/occupational skills covered	Title of thesis: Study on the interaction of variable electric fields with the cellular suspensions

Name and type of organisation providing education and training Babes-Bolyai University, Cluj Napoca, Romania

Level in national or international classification ISCED 8

Dates **1979-1983**

Title of qualification awarded **Bachelor of science / Master of science (in Physics)**

Principal subjects/occupational skills covered Basic education in physics, one year specialization in Biophysics

Name and type of organisation providing education and training Faculty of Physics, University of Bucharest, Romania

Level in national or international classification ISCED 6

Training fellowships *1993, June 14-26: Scholarship at NATO Advanced Course Structure, Biogenesis and Dynamics of Biological Membranes, Institut D'Etuds Scientifique de Cargese, France,*  
*1994, September 26-October 14: Scholarship at ICTP Trieste, College on biophysics: structure and function of biopolymers – experimental and theoretical techniques, Trieste, Italy*  
*1995, November 19-December 14: Scholarship at Department of Chemistry (practical training in electrochemistry techniques), University of Coimbra, Coimbra, Portugal*  
*2002, April 15-28: Scholarship at University of Konstanz, Special Course in Membrane Biophysics, Konstanz, Germany*  
*2011, May 11-16: Scholarship at Erice School of Biophysics – Course on Channels and Transporters, Ettore Majorana Scientific Cultural Fundation, Erice, Italy*

## Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level (\*)

### Language

English

French

### Understanding

Listening

Reading

### Speaking

Spoken interaction

Spoken production

### Writing

B2

B2

B1

B2

B2

A1

A1

A1

A1

A1

Social skills and competences I am a serious and friendly person, easy relating with others, with an equilibrate style in relationships. I am a good negotiator. This was one of the reasons for that I was nominated for the position of head of department

Organisational skills and competences I consider that I have the abilities to work in a programmed way with defined tasks and deadlines. I was involved in 4 national research projects as project leader and in the period of 2009-2011 I had the position of head at the Department of Life and Environmental Physics in IFIN-HH. I am the head of BioEval Laboratory which is working under the quality management standard ISO 17025.

Technical skills and competences I have the ability to work with laboratory equipments and tools. I am familiar with standard cellular and molecular biophysics laboratory instruments as: spectroscopy (UV-VIS, fluorescence), microscopy (bright field, fluorescence, confocal), biochemistry (electrophoresis, multireader plates), cellular cultures techniques, ionizing radiation measurements instruments etc.

Computer skills and competences Familiar in using PC (MS Office, Microcal Origin, Matlab, statistical analysis, programming)

Driving licence Yes, vehicle category: B

## List of publications

### Papers in refereed journals

- 1) I. Petcu, A. Brezeanu, **M. Radu** (1989) Behaviour of Vegetal Protoplasts in Fusogen Electric Fields, *Rev. Roum. Biol. - Biol. Veget.* 34: 121-128.
- 2) **M. Radu** (1990) Cellular electrorotation A General Theoretical Model, *St. Biophys.* 137: 117-124.
- 3) **M. Radu** (1990) Cellular Rotation in Pulsed Rotating Electric Fields, *Rev. Roum. Phys.* 35: 507-512.
- 4) I. Petcu, **M. Radu**, D. Avram, T. Vassu, A. Brezeanu (1990) Electrofusion on Yeast Protoplasts, *Rev. Roum. Biol. - Biol. Veget.* 35: 115-120.
- 5) D. Avram, I. Petcu, **M. Radu**, F. Dan, R. Stan (1992) Electrically induced protoplast fusion for ergosterol producing yeast strain improvement, *J. Basic Microbiol.* 32: 369-372.
- 6) **M. Radu**, G. Cogalniceanu, A. Brezeanu (1994) Control of Nicotiana Tabacum Callus Growth by Alternating and Pulsed Electric Field, *Electro and Magnetobiology* 13: 195-201.
- 7) I. Petcu, D. Fologea, **M. Radu** (1997) Kinetic of electroinduced pores as a probe of membrane modification produced by ionising radiation, *Bioelectrochem. Bioenerg.* 42: 179-186.
- 8) **M. Radu**, I. Petcu, A. Sommer, D. Avram (1996) Changes in membrane electrical parameters of yeast following chemical treatment for protoplast isolation, *Bioelectrochem. Bioenerg.* 40: 159-166.
- 9) **M. Radu**, I. Petcu, A. Sommer, D. Avram (1998) Stimulation of tobacco shoot regeneration by alternating weak electric field, *Bioelectrochem. Bioenerg* 44: 257-260.
- 10) D. Fologea, T. Vassu Dimov, I. Stoica, O. Csutak, **M. Radu** (1998) Increase of Saccharomices Cerevisiae Plating Efficiency after Treatment with Bipolar Electric Pulses, *Bioelectrochem. Bioenerg* 46: 285-287.
- 11) A. Bejan, R. Moraru, **M. Radu**, Gr. Turcu (1998) Adaptation response of rats contaminated with low-doses of tritiated water and postirradiated with a high dose of gamma rays, *Rev. Roum. Biol. (Physiologie Animale)* 43: 141-145.
- 12) G. Cogalniceanu, **M. Radu**, D. Fologea, A. Brezeanu (1998) Are the Electric Field Effects Coupled with the Hormonal Reception of Cells in Plant Callus Culture? *Rom Biotechnol. Lett.* 3: 201-206
- 13) D. Fologea, A. Brezeanu, **M. Radu**, P. Cornea, I. Vatafu (1999) Gene transfer by electroporation into tobacco intact petiole tissue, *Electro Magnetobiol.* 18: 1-6.
- 14) G. Cogalniceanu, **M. Radu**, D. Fologea, A. Brezeanu (2000) Short high voltage pulses promote adventive shoot differentiation from intact tobacco seedlings, *Electro Magnetobiol.* 19: 177-187.
- 15) G. Cogalniceanu, M. Carasan, **M. Radu**, D. Fologea, A. Brezeanu (2001) The influence of external electric field on the in vitro post cotyledonary development of Nicotiana tabacum L. cv. Xanthi Seedlings, *Rom. Biotechnol. Lett.* 5: 45-54.
- 16) I. Smets, A. Caplanusi, S. Despa, Z. Molnar, **M. Radu**, M. vandeVen, M. Ameloot, P. Steels (2004) Ca<sup>2+</sup> uptake in mitochondria occurs via the reverse action of the Na<sup>+</sup>/Ca<sup>2+</sup> exchanger in metabolically inhibited MDCK cells, *Am J Physiol Renal Physiol.* 286: F784-794.
- 17) **M. Radu**, M. Ionescu, N. Irimescu, K. Iliescu, R. Pologea Moraru, E. Kovacs (2005) Orientation behavior of retinal photoreceptors in alternating electric fields, *Biophys J.* 89: 3548-3554.
- 18) S. Baron, A. Caplanusi, M. vandeVen, **M. Radu**, S. Despa, M. Ameloot, P. Steels, I. Smets (2005) Role of mitochondrial Na<sup>+</sup> concentration, measured by CoroNa Red, in the protection of metabolically inhibited MDCK cells, *J Am Soc Nephrol.* 16: 3490 – 3497.
- 19) C. Balut, P. Steels, **M. Radu**, M. Ameloot, W. Van Driessche, D. Jans (2006) Effects of Membrane Cholesterol Depletion on Na<sup>+</sup> Transport in A6 Renal Epithelial Cells, *Am J Physiol Cell Physiol.* 290: C87 - C94.
- 20) I. Dorobanțu, L. Hărănguș, **M. Radu**, A. Iordan, D.I. Corol (2006) The Equilibrium Kinetics of the Enzymatic Labeled Anti 8ohdg Antibody-immunosorbent System in the Presence of Free Antigen, *Rom. J. Biophys.* 16(2): 149-155.
- 21) M. Cutrubinis, D. Chirita, D. Savu, C.E. Secu, **M. Radu**, M. Secu, C. Ponta (2007) Preliminary study on detection of irradiated foodstuffs from the Romanian market, *Rad. Phys. Chem.* 76: 1450–1454.
- 22) M.A. Acasandrei, I.M. Petcu, **M. Radu**, D. Gazdaru, A. Popescu, I. Dorobantu (2007) Radiolytic oxidation of the immunogenic conjugate testosterone-3-carboxymethyloxim-bovine serum albumin and rabbit antitestosterone antiserum, *Rom Rep Phys.* 59: 83-89.
- 23) M. Bacalum, **M. Radu** (2007) Insertion of proteins in the lipid bilayer of liposomes revealed by FRET, *Rom. J. Biophys.* 17: 129-138.
- 24) F. Ciobanu, **M. Radu**, M. Moisescu, M. Surleac, L. Bajenaru, T. Savopol, E. Kovacs (2007) Electroporation of malignant cells for enhanced uptake of therapeutic drugs, *Rom. J. Biophys.* 17: 212-217.
- 25) M. Nae, D. Gazdaru, A. Acasandrei, R. Georgescu, B.M. Macri, **M. Radu** (2008) A fluorescence approach of the gamma radiations effects on gramicidin A inserted in liposomes, *J. Pept. Sci.* 14: 1003-1009.
- 26) I. Dorobantu L. Haranguș, **M Radu** (2009) Synthesis of enzymatic marker 3,6-dicholoro-2-methoxy-benzoic-alcaline phosphatase and evaluation of the affinity against homologue antipesticide antibody, *Rom. J. Biophys.* 19: 63-72.
- 27) B.M. Radu, A.D. Iancu, A. Marin, **M. Radu**, D.D. Banciu, C. Stavaru, D.L. Radu (2009) Basic features of sensory neurons from dorsal root ganglia in TCR-HA<sup>+/+</sup>/RIP-HA<sup>-/-</sup> mice, *Rom. J. Biophys.* 19(2): 83-95.

- 28) M. Bacalum, H. Weingart, **M. Radu** (2009) Interaction between ceftazidime and bacterial porin ompf analyzed by fluorescence, *Rom. J. Biophys.* 19: 105-116.
- 29) B.M. Radu, **M. Radu**, D.D. Banciu (2009) Synchronous and periodic calcium oscillations in neuronal networks formed by sensory neurons in primary culture, *Rom. J. Biophys.* 19(4): 227-237.
- 30) M. Florescu, C. Stoicescu, S. Magda, I. Petcu, **M. Radu**, C. Palombo, M. Cinteza, R. Lichiardopol, D. Vinereanu (2010) Supranormal cardiac function in athletes related to better arterial and endothelial function, *Echocardiography* 27(6): 659-667.
- 31) B.M. Radu, M. Bacalum, A. Marin, M.C. Chifiriuc, V. Lazar, **M. Radu** (2011) Mechanisms of ceftazidime and ciprofloxacin transport through porins in multidrug-resistance developed by extended-spectrum beta-lactamase E.coli strains, *J. Fluoresc.*, 21(4):1421-9
- 32) M. Temelie, M. Bacalum, C.C. Mustaciosu, **M. Radu** (2012) Morphological differentiation induced by growing substrate and serum deprivation on OLN 93 cells, *Rom. J. Biophys.*, 22(1):1-12
- 33) B.M. Radu, D.I. Dumitrescu, C.C. Mustaciosu, **M. Radu** (2012) Dual effect of methylglyoxal on the intracellular Ca<sup>2+</sup> signaling and neurite outgrowth in mouse sensory neurons, *Cell. Mol. Neurobiol.*, 32(6):1047-1057
- 34) A. Matei, M. Zamfirescu, C. Radu, E.C. Buruiana, T. Buruiana, C. Mustaciosu, I. Petcu, **M. Radu**, M. Dinescu (2012) Producing ORMOSIL scaffolds by femtosecond laser polymerization., *Appl. Phys. A: Mat. Sci. Process.* 108(1):91-97
- 35) F. Grigore, M. Lungu, D. Savu, **M. Radu**, G. Velciu (2012) Preparation, characterization and biological evaluation of tricalcium phosphate granules, *Rom. J. Mat.*, 42(2):187-192
- 36) M.G. Moiescu, **M. Radu**, E. Kovacs, L.M. Mir, T. Savopol (2013) Changes of cell electrical parameters induced by electroporation. A dielectrophoresis study, *BBA Biomemb.*, 1828(2):365-372.
- 37) B.M. Radu, A.D. Iancu, D.I. Dumitrescu, M.L. Flonta, **M. Radu** (2013) TRPV1 Properties in Thoracic Dorsal Root Ganglia Neurons are Modulated by Intraperitoneal Capsaicin Administration in the Late Phase of Type-1 Autoimmune Diabetes, *Cell. Mol. Neurobiol.*, 33(2):187-96.
- 38) B.M. Radu, P. Bramanti, F. Osculati, M.L. Flonta, **M. Radu**, G. Bertini, P.F. Fabene (2013) Neurovascular unit in chronic pain, *Mediat. Inflamm.*, 2013: 648268.
- 39) M. Bacalum, B. Zorila, **M. Radu** (2013) Fluorescence spectra decomposition by asymmetric functions - Laurdan spectrum revisited, *Analyt. Biochem.*, 440 (2): 123–129.
- 40) M. Bacalum, B. Zorila, **M. Radu**, A. Popescu, (2013) Laurdan solvatochromism: influence of solvent polarity and hydrogen bonds, *Optoelectron. Adv. Mat.*, 7(5-6): 456 - 460.
- 41) G. Bertini, P. Bramanti, G. Constantin, M. Pellitteri, B.M. Radu, **M. Radu**, P.F. Fabene, (2013) New players in the neurovascular unit: Insights from experimental and clinical epilepsy, *Neurochem. Int.*, 63(7): 652-659.
- 42) B.M. Radu, D.I. Dumitrescu, A. Marin, D.D. Banciu, A.D. Iancu, T. Selescu, **M. Radu** (2014) Advanced Stage of Type 1 Diabetes is Associated with ASIC Alterations in Mouse Thoracic Dorsal Root Ganglia Neurons, *Cell Biochem. Biophys.*, 68: 9–23
- 43) B.M. Radu, D.D. Banciu, A. Banciu, M. Radu, (2014) Diabetic Neuropathy: Promises and Disappointments from Benchside to Bedside, *J Neurol Stroke*, 1(1159–11693):00015.
- 44) B.M. Radu, **M. Radu**, C. Tognoli, D. Benati, F. Merigo, M. Assfalg, E. Solani, C. Stranieri, A. Cecon, A.M. Fratta Pasini, L. Cominacini, P. Bramanti, F. Osculati, G. Bertini, P.F. Fabene (2015) Are they in or out? The elusive interaction between Qtracker@800 vascular labels and brain endothelial cells. *Nanomedicine (Lond)*. Jul 15:1-14.
- 45) M. Bacalum, **M. Radu**, (2015) Cationic antimicrobial peptides cytotoxicity on mammalian cells – an analysis using therapeutic index integrative concept, *Int J Pep Res Ther*, 21: 47-55
- 46) B.M. Radu, **M Radu** (2015) Unleashing the Potential of Brain Endothelial Cells in Epilepsy, *J Neurol Stroke*, 3(2):00084.
- 47) B.M. Radu, **M. Radu** (2015) Recent Preclinical and Clinical Technological Advances Suitable to Unravel the Physiological and Pathological Status of the Blood Brain Barrier in Neurology, *EC Neurology*, 1(2): 22-28.
- 48) B. Zorila, M. Bacalum, A. I. Popescu, **M. Radu**. (2016) Log-normal deconvolution of Laurdan fluorescence spectra - a tool to assess lipid membrane fluidity. *Rom Rep Phys* 68(2): 702–712
- 49) M. Bacalum, B. Zorila, **M. Radu** (2016) Investigating the anticancer activity of some cationic antimicrobial peptides in epithelial tumor cells, *Rom Rep Phys*, 68(3): 1159-1169
- 50) B.M. Radu, D.D. Banciu, A. Banciu, **M. Radu**, D. Cretoiu, S.M. Cretoiu (2017) Calcium signaling in interstitial cells: Focus on telocytes, *International Journal of Molecular Sciences*, 18(2), 397
- 51) B.M. Radu, F.B. Epureanu, **M. Radu**, P.F. Fabene, G. Bertini (2017) Nonsteroidal anti-inflammatory drugs in clinical and experimental epilepsy, *Epilepsy Res* 131:15-27
- 52) M. Bacalum, L. Janosi, F. Zorila, A.M. Tepes, C. Ionescu, E. Bogdan, N. Hadade, L. Craciun, I. Grosu, I. Turcu, **M. Radu**. (2017) Modulating short tryptophan- and arginine-rich peptides activity by substitution with histidine, *BBA-General Subjects*, 1861(7): 1844–1854
- 53) RC Popescu, E Andronescu, BS Vasile, R Truşcă, A Boldeiu, L Mogoantă, GD Mogoşanu, M Temelie, M Radu, AM Grumezescu, D Savu, (2017) Fabrication and Cytotoxicity of Gemcitabine-Functionalized Magnetite Nanoparticles. *Molecules*. 22(7). pii: E1080. doi: 10.3390/molecules22071080

- 54) B.M. Radu, A.M.M. Osculati, E. Suku, A. Banciu, G. Tsenov, F. Merigo, M. Di Chio, D.D. Banciu, C. Tognoli, P. Kacer, A. Giorgetti, **M. Radu**, G. Bertini P.F. Fabene. (2017) All muscarinic acetylcholine receptors (M1-M5) are expressed in murine brain microvascular endothelium, *Scientific Reports*, 7(1),5083
- 55) A Banciu, DD Banciu, CC Mustaciosu, **M Radu**, D Cretoiu, J Xiao, SM Cretoiu, N Suci, BM Radu, Beta-estradiol regulates/modulates voltage-gated calcium channels and estrogen receptors in telocytes from human myometrium, *International Journal of Molecular Science*, 2018, 19: 1413
- 56) M Moisescu, T Savopol, L Dimitriu; J Cemazar; E Kovacs, M Radu, Noninvasive detection of changes in cells cytosol conductivity by combining dielectrophoresis with optical tweezers, *Analytica Chimica Acta*, 2018, 1030: 166-171
- 57) RA Vasilache, MA Popovici, M Straticiu, **M Radu**, A Groza, The development of a novel array detector for overcoming the dosimetry challenges of measuring in very short pulsed charged particle beams: the ELIDOSE project, *Radiation Protection Dosimetry*, 2019, 183(1-2): 285-289
- 58) Mustăciosu, C.C., Banciu, A., Rusu, C.M., Banciu, D.D., Savu, D., **Radu, M.**, Radu, B.M, RNA-binding proteins HuB, HuC, and HuD are distinctly regulated in dorsal root ganglia neurons from STZ-sensitive compared to STZ-resistant diabetic mice, *International Journal of Molecular Sciences*, 2019, 20(8):1965
- 59) T. Asavei, M. Bobeica, V. Nastasa, G. Manda, F. Naftanaila, O. Bratu, D. Mischianu, M. O. Cernaianu, P. Ghenuche, D. Savu, D. Stutman, K. A.Tanaka, **M. Radu**, D. Doria, and P. Vasos, Laser-driven radiation: biomarkers for molecular imaging of high dose-rate effects, *Medical Physics* 46 (2019) e726-e734
- 60) Aude Sadet, Cristina Stavarache, Mihaela Bacalum, **Mihai Radu**, Geoffrey Bodenhausen, Dennis Kurzbach, Paul R. Vasos, Hyperpolarized Water Enhances Two-Dimensional Proton NMR Correlations: A New Approach for Molecular Interactions, *J. Am. Chem. Soc.*, 2019, 141(32): 12448-12452
- 61) Ioana-Ecaterina Pralea, Radu-Cristian Moldovan, Alina-Maria Petrache, Maria Ilieș, Simona-Codruța Hegheș, Irina Ielciu, Raul Nicoară, Mirela Moldovan, Mihaela Ene, **Mihai Radu**, Alina Uifălean and Cristina-Adela Iuga, From Extraction to Advanced Analytical Methods: The Challenges of Melanin Analysis, *Int. J. Mol. Sci.* 2019, 20(16), 3943;
- 62) Mihaela Bacalum, Elena-Carmina Dragulescu, George Necula, Irina Codita and **Mihai Radu**, Short tryptophan- and arginine-rich peptide shows efficacy against clinical methicillin-resistant *Staphylococcus aureus* strains isolated from skin and soft tissue infections, *Scientific Reports* 9 (2019) 17176

### Chapters in books

- 1) E. Kovacs, T.Savopol, O. Doaga, R. Pologea, **M. Radu**, C. Deleanu (2002) *Biophysics and cellular biotechnology. Methods of research*. Carol Davila University Editure, Bucharest, 120 pg; ISBN 973-8047-67-6 (In Romanian)
- 2) V. Lungu, D. Niculae, D. Chiper, **M. Radu**, L. Danaila, S. Baiculescu (2007), Labelling of dotatate with 177Lu and 131I for diagnosis and targeted therapy: in vitro and in vivo comparative evaluation, in: *Comparative evaluation of therapeutic radiopharmaceuticals*, IAEA Technical Reports Series no 458, Chapter 14, pp. 223-256
- 3) B.M. Radu, A. Banciu, D.D. Banciu, **M. Radu** (2016) Acid sensing ion channels as potential pharmacological targets in peripheral and central nervous system diseases, in: Ion channels as therapeutic targets, *Advances in Protein Chemistry and Structural Biology*, Vol. 103, Chapter 04, pp: 137–167
- 4) A Dumitru, BM Radu, **M Radu**, SM Cretoiu (2018) Muscle Changes During Atrophy, *Advances in Experimental Medicine and Biology - book serie* 1088: 73-92

### Invited lectures

November 2009: M. Moisescu, **M. Radu**, Cell membrane electrical parameters evaluation by dielectrophoresis – influence of electropermeabilising pulses, at Institute of Pharmacology and Structural Biology, Toulouse, France (invited seminar)

September 2018: **M Radu**, M Bacalum, M Straticiu, R Vasilache, M Temelie, D Savu, Biomedical Applications of Ionising Radiation: Romanian experience in perspective of ELI-NP, 34th Congress of Turkish Physics Society, Bodrum, Turcia, September 5-9, 2018

### Patents

A/01319/12-10-2010, Banciu D.D., Marin A., **Radu M.**, Radu B., Savopol T., Method for guiding the neurite outgrowth and the synapse formation. (registered application under evaluation)