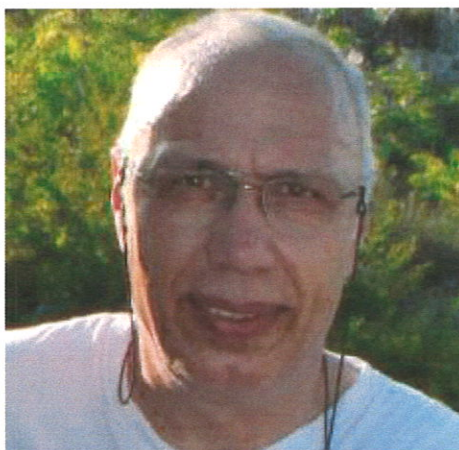


Europass Curriculum Vitae



Informatii personale

Nume / Prenume **Radu Mihai**
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Telefon Serviciu 0040214042303; Mobil 0040723397592
E-mail mradu@nipne.ro
Nationalitate Romana
Data nasterii 14 noiembrie 1958
Sex masculin

Perioada 1987-prezent

Post Cercetator (1987-2001), cercetator stiintific gradul III (2001-2010), cercetator stiintific gradul II (2010-2017), cercetator stiintific gradul I (2017-present), director stiintific (2017-prezent).

Activitati si responsabilitati *Activitati:* studii in domeniul biofizicii moleculare si celulare: interactia proteinelor cu membranele model, radiobiologie, patologii cu impact larg (diabet, boli cardiovasculare si neurodegenerative), biocompatibilitatea materialelor, dezvoltarea de tehnici bazate pe fluorescenta pentru investigatii la nivel molecular si celular, radiobiologie celulara.
Responsabilitati: managementul si executia proiectelor de cercetare.

Numele si adresa angajatorului Institutul National de Fizica si Inginerie Nucleara (IFIN-HH), str Atomistilor, nr 407, Magurele, 077125, Romania

Categoria Institut de cercetare.

Perioada 2003-2015

Post Cercetator asociat

Activitati si responsabilitati *Activitati:* educationale (lectii privind: efectele campurilor electrice asupra materiei vii si microscopia de fluorescenta) si de cercetare (efectele campurilor electrice variabile asupra celulelor biologice in suspensie)
Responsabilitati: predare cursuri, executie proiecte de cercetare.

Numele si adresa angajatorului Universitatea de Medicina si Farmacie Carol Davila (UMF Carol Davila), Departamentul de Biofizica si Biotehnologie Celulara; str. Eroilor Sanitari, nr 8, Bucuresti, Romania

Categoria Educatie si Cercetare

Perioada 2002-2005

Post Profesor asociat

Activitati si responsabilitati *Activitati:* educationale in domeniul biofizicii (lectii teoretice si practice de Fizica si Biofizica)
Responsabilitati: predare cursuri



Numele si adresa angajatorului	Universitatea din Bucuresti, Facultatea de Biologie, Departamentul de Fiziologie Animala si Biofizica, Splaiul Independentei, 91-95, Bucuresti, Romania
Categoria	Educatie
Perioada	1983-1987
Post	Professor de fizica.
Numele si adresa angajatorului	Liceul Industrial nr , Cugir, jud Alba, Romania
Categoria	Educatie
Stagii postdoctorale	<p><i>Nov01,1999-Oct30, 2000:</i> stagiul postdoctoral - Department of Biophysics and Biophysical Chemistry, Faculty of Chemistry, University of Bielefeld, Bielefeld, Germany – studii privind transportul ADN-ului prin bistraturi lipidice plane folosind tehnici electrice si de fluorescenta</p> <p><i>Mai15-Aug08, 2002; Aug04-Sep29, 2003; Nov01-Dec22,2003; Ian01-Mar12, 2004:</i> stagii post doctorale - Department of Physiology, Faculty of Medicine, Hasselt University, Hasselt, Belgium (former LUC, Diepenbeek, Belgium) – studii privind concentratia ionilor in citosol si organizarea lipidelor in membranele biologice prin tehnici de microfluorimetrie (microscopie de fluorescenta de camp larg si confocala, FRET).</p> <p><i>Ian 2012-present:</i> stagiul postdoctoral - Faculty of Medicine, Univeristy of Verona, Italy – studii privind rolul unitatii neurovasculare in patologii neurodegenerative.</p>
Evaluator, comitete editoriale, afiliere la societati profesionale	<p><i>1995-prezent:</i> Referend (ocazional) pentru reviste in diverse domenii (de ex: Bioelectrochemistry, Journal of Peptide Science, Journal of Fluorescence)</p> <p><i>2010:</i> Membru in grupul de evaluare a propunerilor de proiecte de cercetare (Comisa de Biologie) la competitii nationale.</p> <p><i>2007-prezent:</i> Membru in Comitetul editorial al Romanian Journal of Biophysics (www.biophysicsnet.ro/rjb)</p> <p><i>1995-prezent:</i> Membru al Romanian Society of Pure and Applied Biophysics (afiliate la EBSA si IUPAB); 2004-2006, secretar al filialei Bucuresti</p> <p><i>2005-prezent:</i> Membru al Bioelectrochemistry Society</p> <p><i>2009-prezent:</i> Membru al European Society of Microscopy</p> <p><i>2011-prezent:</i> Membru al Biophysical Society</p>
Publications	54 articole (vezi sectiunea Informatii Suplimentare) in reviste cu referenti (16 in reviste romanesti), 2 capitole de carti, 1 patent , ~150 citations (acc Google Scholar), Hirsh index 6
Titlul acordat	Doctor in Fizica
Domeniul educational	Titlul tezei de doctorat: Studii asupra interactiei campurilor electrice variabile cu celulele in suspensie
Numele si tipul organizatiei care a acordat titlul	Universitatea Babes-Bolyai, Cluj Napoca, Romania
Nivelul (clasificare international)	ISCED 8
Perioada	1979-1983
Titlul acordat	Licentiat in Fizica
Domeniul educational	Bazele fizicii, un an de specializare in biofizica
Numele si tipul organizatiei care a acordat titlul	Facultatea de Fizica, Universitatea din Bucuresti, Romania
Nivelul (clasificare international)	ISCED 6
Stagii de perfectionare	<p><i>1993, Iunie 14-26:</i> student in cadrul cursului NATO Advanced Course Structure, Biogenesis and Dynamics of Biological Membranes, Institut D'Etuds Scientifique de Cargese, France,</p> <p><i>1994, septembrie26-octombrie 14:</i> student in cadrul cursului College on biophysics: structure and function of biopolymers – experimental and theoretical techniques, ICTP Trieste, Trieste, Italy</p> <p><i>1995, noiembrie 19-decembrie 14:</i> stagiul de perfectionare in tehnici de electricchimie la Department of Chemistry, University of Coimbra, Coimbra, Portugal</p> <p><i>2002, aprilie15-28:</i> student in cadrul cursului Special Course in Membrane Biophysics, University of Konstanz, Konstanz, Germany</p> <p><i>2011, May 11-16:</i> student in cadrul cursului Course on Channels and Transporters - Erice School of Biophysics, Ettore Majorana Scientific Cultural Fundation, Erice, Italy</p>

Autoevaluare		Nivel european			
Limba	Intelegere		Vorbire		Sciere
Engleza	Ascultare	Citire	Participare la conversatie	Discurs oral	Exprimare scrisa
Franceza	B2	B2	B1	B2	B2
	A1	A1	A1	A1	A1

Mod de lucru organizat, cu tinte si scopuri bine definite.

Informatii suplimentare

- Lista de publicatii
Articole in reviste cu referentii
(doar ultimii 5 ani)
- 37) Moisescu M.G., **Radu M.**, Kovacs E., Mir L.M., Savopol T. (2013) Changes of cell electrical parameters induced by electroporation. A dielectrophoresis study, *B. B. A. Biomemb.*, 1828(2):365-372.
- 38) Radu B.M., Iancu A.D., Dumitrescu D.I., Flonta M.L., **Radu M.** (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
- 39) Radu B.M., Dumitrescu D.I., Marin A., Banciu D.D., Iancu A.D., Selescu T., **Radu M.** (2013) Advanced Stage of Type 1 Diabetes is Associated with ASIC Alterations in Mouse Thoracic Dorsal Root Ganglia Neurons, *Cell Biochem. Biophys.*, DOI: 10.1007/s12013-013-9678-5,
- 40) Radu B.M., Bramanti P., Osculati F., Flonta M.L., **Radu M.**, Bertini G., Fabene F.F. (2013) Neurovascular unit in chronic pain, *Mediat. Inflamm.*, Volume 2013, Article ID 648263, 18 pages
- 41) Bacalum M., Zorila B., **Radu M.** (2013) Fluorescence spectra decomposition by asymmetric functions - Laurdan spectrum revisited, *Analyt. Biochem.*, DOI: 10.1016/j.ab.2013.05.031
- 42) M. Bacalum, B. Zorila, **M. Radu**, A. Popescu, (2013) Laurdan solvatochromism: influence of solvent polarity and hydrogen bonds, *Optoelectron. Adv. Mat.* (accepted, in press).
- 43) 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.
- 44) 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
- 45) 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.
- 46) B.M. Radu, M. Radu, C. Tognoli, D. Benati, F. Merigo, M. Assfalg, E. Solani, C. Stranieri, A. Ceccon, 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.
- 47) 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
- 48) 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. Hadad, 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 Crio, 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 (in press)
- 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 (accepted)
- 56) M Moiescu, 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 (accepted)

- Capitole in carti* 1) E. Kovacs, T.Savopol, O. Doaga, R. Pologea, **M. Radu**, C. Deleanu (2002) *Biophysics and cellular biotechnology. Methods of research*. Carol Davila University Editura, Bucharest, 120 pg; ISBN 973-8047-67-6 (In Romanian)
- 2) V. Lungu, D. Niculae, D. Chiper, **M. Radu**, L. Danaila, S. Baiculescu, 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
- Lectii invitate* November 2009: M. Moiescu, **M. Radu**, Cell membrane electrical parameters evaluation by dielectrophoresis – influence of electropermeabilising pulses, at Institute of Pharmacology and Structural Biology, Toulouse, France (invited seminar)
- patente* 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)

Mai, 2018

Mihai Radu