

Curriculum vitae Europass



Informații personale

Nume / Prenume

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Naționalitate(-ități)

română

Data nașterii

27/04/1956

Sex: M

Profilul personal

Locul de muncă:

Universitatea din București, Facultatea de Biologie, Departamentul Anatomie, Fiziologie animală și Biofizică

Educație și formare

Titlul de Doctor în Biologie în România, de către Ministerul Educației, Cercetării și Inovării (Certificat Seria M nr. 000365).

perioada: Master în biofizica

Universitatea din București, Facultatea de Biologie, București (România)

perioada: Licență în fizica, biofizica

Universitatea din București, Facultatea de Biologie, București (România)

perioada: Bacalaureat

Liceul de Electrotehnica, Pitesti

Experiența profesională

2010 – 2021: Directorul Departamentului de Anatomie, Fiziologie Animală și Biofizică, Facultatea de Biologie, Universitatea din București, București (www.bio.unibuc.ro)

2006 – 2021: Profesor, Facultatea de Biologie, Universitatea din București, București (www.bio.unibuc.ro)

- Activități didactice și de cercetare

2000 – 2003: Cercetător științific - National Cancer Institute, Heidelberg, Germania

- Activități de cercetare

2000 – 2004: Profesor invitat - University of Heidelberg, Heidelberg, Germania

- Activități didactice și de cercetare

1992 – 2006: Conferențiar - Facultatea de Biologie, Universitatea din București, București (www.bio.unibuc.ro)

- Activități didactice și de cercetare

1984 – 1993: Cercetător științific - Institutul de Biologie, București

- Activități de cercetare

1982 – 1984: Profesor - Liceul din Cernavodă

- Activități didactice

Experiență managerială

2010 – 2021: Directorul Departamentului de Anatomie, Fiziologie Animală și Biofizică, Facultatea de Biologie, Universitatea din București, București (www.bio.unibuc.ro)

Rezultate ale activității de cercetare	• Granturi: • Tempus Project 9695/95 (1995-1998); • CEEEX* 60/2005-2007: The effect of Cadmium on biomembranes. Implication in apoptosis; • CNCSIS**: 1072/2006-2008: Study of interactions between typical and atypical antipsychotic drugs and their membrane receptors using in silico methods -implications in drug design; • CEEEX 141/2006-2008: Molecular mechanism of depression: electrophysiological and molecular modeling with clinical implications, 1.200.000 RON; • CEEEX:168/2006-2008: Study of impermeability-mediated antimicrobial resistance mechanisms of Gram-negative bacteria in natural and reconstituted membranes; • CEEEX 2-Cex06-11-49/2006-2008 Nano-scale approach towards studying couplings between biomembranes, bacterial toxins and proteins with roles in drugs penetration; • PNCI2*** – 42151/2008: Genotype-phenotype correlation for some candidate genes in bipolar I disorder; • PNCI2 – 62055/2008: Biomedical applications of the THz spectroscopy. Early diagnostics of cancer; • PNCI2 – 62060/2008: Biospecific nanoparticles used in research and biomedical analyses laboratories; • PNCI2 – 12135/2008: Infrared-pumped upconversion nanophosphors for biomedical applications. • PCE **** – 137/2011: Protein three-dimensional structure and conformational transitions determination by high-power narrow-band THz radiation and by molecular modeling. • Romania-Slovenia BILATERAL COOPERATION – 538/2012: Protein three-dimensional structure and conformational transitions determination by high-power narrow-band THz radiation and by molecular modelling. • PNCI2 - 89/2012: Genomewide study of bipolar disorder and guide for assesing the genetic risk for bipolar disorder in the romanian population • PNCI2- 16/2012: Intelligent Tutoring System – Evolutionary Approach in e-Learning • PN II 198/2014: Integrated system for biomolecular modeling that can be applied to Gram – negative bacteria • HIVERA 4-004/2013 : An innovative approach to deliver dual - targeting HIV entry inhibitours using cationic liposomes • COST Action MP1204 (2012 – 2015): TERA-MIR Radiation: Materials, Generation, Detection and Applications – reprezentant in Management Comitee din partea Romaniei • Lucrări elaborate și/sau publicate: 1. Articole publicate în reviste cotate ISI – 53 2. Articole publicate în reviste cu referenți – 89 3. Cărți – 3 4. Note aplicative pentru întreprindere – 5. Rezumate în volumele conferințelor – 45 6. Broșuri științifice – • Indicele Hirsch: (ISI / Google Scholar) 15 • Citări: (ISI / Google Scholar) 607 • Factor de impact total: 12 • Scorul relativ de influență: 6 • ORCID ID: 0000-0001-6398-5837 • Web of Science ResearcherID: AAG-2975-2021
Aptitudini și competențe personale	
Limba(i) maternă(e)	Română
Limba(i) străină(e) cunoscută(e)	
Autoevaluare	
Nivel european (*)	
Limba engleză	
Limba franceză	

Competențe de comunicare	• bune competențe de comunicare dobândite prin propria experiență în lucrul cu studenții, ca profesor și în lucrul cu angajații Facultății de Biologie, ca director de proiecte de cercetare și ca Director al Departamentului de Anatomie, Fiziologie Animală și Biofizică															
Competențe organizaționale/manageriale	• leadership - ca director de proiecte de cercetare, în prezent, sunt responsabil de o echipă de 11 persoane ▪ bune calități organizatorice – ca Director al Departamentului de Anatomie, Fiziologie Animală și Biofizică, sunt implicat în și coordonez activitatea membrilor departamentului															
Competențe dobândite la locul de muncă	• De-a lungul timpului, am achiziționat noi competențe de lucru prin intermediul unor stagii de lucru în instituții străine, după cum urmează: ▪ 1988, 1992, 1998 (două săptămâni în fiecare an): Centrul de cercetări biologice, Szeged, Ungaria ▪ 1996, 1997 (o lună în fiecare an): University of Nottingham, UK ▪ 1997, 1998 (șase și cinci luni în cei doi ani): Centrul de studii atomice („Centre D’Etude Atomique”, CEA), Franța ▪ 2000 -2004 (patru ani): University of Heidelberg, Germania ▪ 2006-2007 (șase luni): University of Tennessee, USA ▪ 2006-2007 (șase luni): Oak Ridge National Laboratory, USA															
Competență digitală	<table><tr><td colspan="5">Autoevaluare</td></tr><tr><td>Procesarea informației</td><td>Comunicare</td><td>Creare de conținut</td><td>Securitate</td><td>Rezolvarea de probleme</td></tr><tr><td>Utilizator experimentat</td><td>Utilizator experimentat</td><td>Utilizator independent</td><td>Utilizator experimentat</td><td>Utilizator experimentat</td></tr></table> • Cunoștințe informatice bune dobândite prin datorită administrării serverului de calcul și a rețelei de internet din Facultatea de Biologie - Microsoft Office, Adobe Photoshop, alte tipuri de software	Autoevaluare					Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme	Utilizator experimentat	Utilizator experimentat	Utilizator independent	Utilizator experimentat	Utilizator experimentat
Autoevaluare																
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme												
Utilizator experimentat	Utilizator experimentat	Utilizator independent	Utilizator experimentat	Utilizator experimentat												
Publicații relevante	1. Maria Mernea, Roxana Ulăreanu, Octavian Călboreanu, Gabriela Chirișoiu, Dana Cucu, Dan F. Mihailescu, N-glycosylation state of TRPM8 protein revealed by terahertz spectroscopy and molecular modelling, <i>Biochimica et Biophysica Acta (BBA) - General Subjects</i>, 1864, 11, 129580, 2020, Elsevier 2. Avram, Speranta; Puia, Alin; Udrea, Ana Maria; Mihailescu, Dan; Mernea, Maria; Dinischiotu, Anca; Oancea, Florin; Stiens, Johan; ", "Natural Compounds Therapeutic Features in Brain Disorders by Experimental, Bioinformatics and Cheminformatics Methods", <i>Current medicinal chemistry</i>, 2019, Bentham Science Publishers 3. Airini, Razvan; Iordache, Florin; Alexandru, Dorin; Savu, Lorand; Epureanu, Florin Bogdan; Mihailescu, Dan; Amuzescu, Bogdan; Maniu, Horia, "Senescence? induced immunophenotype, gene expression and electrophysiology changes in human amniocytes", <i>Journal of cellular and molecular medicine</i>, 23, 11, 7233-7245, 2019, 4. Cojocar, F; Selescu, T; Domocos, D; Mihailescu, D; Babes, A; Cucu, D; ", Investigation of Transient receptor potential ankyrin 1 (TRPA1) expression and function in a pancreatic adenocarcinoma cell line, <i>EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS</i>, 48,, S176-S176, 2019, "SPRINGER 233 SPRING ST, NEW YORK, NY 10013 USA 5. Stan, Miruna Silvia; Cinteza, Ludmila Otilia; Petrescu, Livia; Mernea, Maria Alexandra; Calborean, Octavian; Mihailescu, Dan Florin; Sima, Cornelia; Dinischiotu, Anca; ", Dynamic analysis of the interactions between Si/SiO 2 quantum dots and biomolecules for improving applications based on nano-bio interfaces, <i>Scientific reports</i>, 8, 1, 11-Jan, 2018, Nature Publishing Group 6. Avram, Speranta; Milac, Adina-Luminita; Borcan, Livia-Cristina; Mihailescu, Dan; Borcan, Florin; Castanho, Miguel; ", Designing of Artificial Peptides for an Improved Antiviral Activity, <i>Current Proteomics</i>, 15, 4, 258-266, 2018, Bentham Science Publishers 7. Avram, Speranta; Mernea, Maria; Bagci, Eyup; Hritcu, Lucian; Borcan, Livia-Cristina; Mihailescu, Dan F; ", "Advanced Structure-activity Relationships Applied to Mentha spicata L. Subsp. spicata Essential Oil Compounds as AChE and NMDA Ligands, in Comparison with Donepezil, Galantamine and Memantine–New Approach in Brain Disorders Pharmacology", <i>CNS & Neurological Disorders-Drug Targets (Formerly Current Drug Targets-CNS & Neurological Disorders)</i>, 16, 7, 800-811, 2017, Bentham Science Publishers															

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9. Avram, Speranta; Borcan, Florin; Borcan, Livia-Cristina; L Milac, Adina; **Mihailescu, Dan**; ",QSAR Approaches Applied to Antidepressants Induced Neurogenesis-in vivo and in silico Applications,Mini reviews in medicinal chemistry,16,3,230-240,2016,Bentham Science Publishers
10. Avram, Speranta; Mernea, Maria; Borcan, Florin; **Mihailescu, Dan**; ",Evaluation of the therapeutic properties of mastoparan-and sifuvirtide-derivative antimicrobial peptides using chemical structure-function relationship-in vivo and in silico approaches,Current drug delivery,13,2,202-210,2016,Bentham Science Publishers
11. "Mernea, Maria; Ulăreanu, R; Călborean, O; Chira, Sergiu; Popescu, Octavian; **Mihailescu, Dan F**; Cucu, Dana; ",Effects of Cd²⁺ on the epithelial Na⁺ channel (ENaC) investigated by experimental and modeling studies.,General physiology and biophysics,35,3,259-271,2016,
12. Stan, MS; Mernea, **M**; **Mihailescu, D**; Dinischiotu, A; ",Time evolution of the silicon-based quantum dots nano-bio interactions is critical for the effect on model biological membranes,Toxicology Letters,,258,S266,2016,
13. Mernea, Maria; Ionescu, Alina; Vasile, Ionut; Nica, Cristina; Stoian, Gheorghe; Dascalu, Traian; **Mihailescu, Dan Florin**; ",In vitro human serum albumin glycation monitored by Terahertz spectroscopy,Optical and Quantum Electronics,47,4,961-973,2015,Springer US
14. Grigore, O; Calborean, O; Cojocaru, G; Ungureanu, R; Mernea, M; Dinca, M; Avram, S; **Mihailescu, D**; Dascalu, T; ",High-intensity THz pulses application to protein conformational changes,Romanian Reports in Physics,67,4,1251-1260,2015,
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17. Mernea, Maria; Calborean, Octavian; Grigore, Oana; Dascalu, Traian; **Mihailescu, Dan Florin**; ",Validation of protein structural models using THz spectroscopy: a promising approach to solve three-dimensional structures,Optical and Quantum Electronics,46,4,505-514,2014,Springer US
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19. Bilcu, Maxim; Grumezescu, Alexandru Mihai; Oprea, Alexandra Elena; Popescu, Roxana Cristina; Mogosanu, George Dan; Hristu, Radu; Stanciu, George A; **Mihailescu, Dan Florin**; Lazar, Veronica; Bezirtzoglou, Eugenia; ",Efficiency of vanilla, patchouli and ylang ylang essential oils stabilized by iron oxide@ C14 nanostructures against bacterial adherence and biofilms formed by Staphylococcus aureus and Klebsiella pneumoniae clinical strains",Molecules,19,11,17943-17956,2014,Multidisciplinary Digital Publishing Institute
20. Avram, Speranta; Milac, Adina; Mernea, Maria; **Mihailescu, Dan**; Putz, Mihai V; Buiu, Catalin; ",Structure–Biological function relationship extended to mitotic arrest-deficient 2-like protein Mad2 native and mutants-new opportunity for genetic disorder control,International journal of molecular sciences,15,11,21381-21400,2014,Multidisciplinary Digital Publishing Institute
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22. Avram, Speranta; Mernea, Maria; **Mihailescu, Dan**; Duda-Seiman, Daniel; Duda-Seiman, Corina; ",Advanced QSAR Methods Evaluated Polycyclic Aromatic Compounds Duality as Drugs and Inductors in Psychiatric Disorders,Current Organic Chemistry,17,23,2880-2890,2013,Bentham Science Publishers
23. Calborean, Octavian; Mernea, Maria; Avram, Speranta; **Mihailescu, Dan Florin**; ",Pharmacological descriptors related to the binding of Gp120 to CD4 corresponding to 60 representative HIV-1 strains,Journal of enzyme inhibition and medicinal chemistry,28,5,1015-1025,2013,Taylor & Francis

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35. Necula, Gheorghe; Mihai, Maria E; Sbarcea, Claudiu E; Dinu, Sorin; Lupulescu, Emilia; Ceausu, Emanoil; StreinuCercel, Adrian; **Mihailescu, Dan F**; Alexandrescu, Viorel I; ",Overview of influenza virus antiviral resistance in Romania in the last four epidemic seasons phenotyping, genotyping and molecular analysis study",Revista RomEn7 de Medicin7 de Laborator Vol,19,4-Mar,,2011,
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39. Mernea, M; Calborean, O; Dinca, MP; Leca, A; Apostol, D; Dascalu, T; **Mihailescu, D**; ",The simulation of bovine serum albumin vibration spectrum in THz domain,Journal of optoelectronics and advanced materials,12,1,135-140,2010,INOE 2000
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Data:

13/12/2022

Semnătura:

Prof. Dr. Mihăilescu Dan Florin