

Curriculum vitae Europass



Informații personale

Nume / Prenume

MIHĂILESCU DAN FLORIN

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Naționalitate(-tăți)

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)
Limba(i) străină(e)
cunoscută(e)

Română

Autoevaluare
Nivel european (*)

Limba engleză
Limba franceză

Înțelegere		Vorbire		Scriere
Ascultare	Citire	Conversație	Discurs oral	Exprimare scrisă
C2	C2	C2	C2	C2
C2	C2	C2	C2	C2

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

Autoevaluare				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator experimentat	Utilizator experimentat	Utilizator independent	Utilizator experimentat	Utilizator experimentat

- 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

Publicații relevante

1. Maria Mernea, Roxana Ulăreanu, Octavian Călboreanu, Gabriela Chirișoiu, Dana Cucu, **Dan F. Mihăilescu**, N-glycosylation state of TRPM8 protein revealed by terahertz spectroscopy and molecular modelling, *Biochimica et Biophysica Acta (BBA) - General Subjects*, 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", *Current medicinal chemistry*, 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", *Journal of cellular and molecular medicine*, 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, *EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS*, 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/SiO₂ quantum dots and biomolecules for improving applications based on nano-bio interfaces, *Scientific reports*, 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, *Current Proteomics*, 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", *CNS & Neurological Disorders-Drug Targets (Formerly Current Drug Targets-CNS & Neurological Disorders)*, 16, 7, 800-811, 2017, Bentham Science Publishers

8. Avram, Speranta; Alexandrescu, Iulia; Puia, Alin; Udrea, Ana M; Mernea, Maria; **Mihailescu, Dan Florin**; Borcan, Livia-Cristina; ",Aneuploidy-Inducing Mutations in Mitotic Checkpoint Protein hMad1-Carboxi Terminal Domain Analyzed by SAR and Computational Mutagenesis,Current Proteomics,14,4,254-260,2017,Bentham Science Publishers
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,
15. Najm, Wisam Abdulameer; Bolocan, Alexandra; Ionescu, Diana; Ionescu, Bogdan; Gheorghe, Irina; Banu, Otilia; **Mihailescu, Dan**; Decuseara, Adina; ",Molecular analysis of Staphylococcus aureus resistance patterns encountered in a Romanian hospital from Bucharest, Romania.",Biointerface Research in Applied Chemistry,5,5,,2015,
16. Najm, Wisam Abdulameer; Bolocan, Alexandra; Ionescu, Diana; Ionescu, Bogdan; Gheorghe, Irina; Banu, Otilia; **Mihailescu, Dan**; Decuseara, Adina; ",Etiology and resistance patterns of Pseudomonas aeruginosa strains isolated from a Romanian hospital.,Biointerface Research in Applied Chemistry,5,5,,2015,
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
18. Avram, Speranta; Mernea, Maria; **Mihailescu, Dan Florin**; Seiman, Corina Duda; Seiman, Daniel Duda; Putz, Mihai Viorel; ",Mitotic checkpoint proteins Mad1 and Mad2-structural and functional relationship with implication in genetic diseases.,Current computer-aided drug design,10,2,168-181,2014,
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
21. Gheorghe, Irina; Czobor, Ilda; Chifiriuc, Mariana Carmen; Borcan, Elvira; Ghiță, Camelia; Banu, Otilia; Lazăr, Veronica; Mihăescu, Grigore; **Mihăilescu, Dan Florin**; Zhiyong, Zong; ",Molecular screening of carbapenemase-producing Gram-negative strains in Romanian intensive care units during a one year survey,Journal of medical microbiology,63,10,1303-1310,2014,Microbiology Society
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

24. Vasile, I; Mernea, M; **Mihailescu, DF**; ",Protein-membrane interaction: molecular dynamics simulation of ASIC1 in lipid bilayer,EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS,42,,S157-S157,2013,"SPRINGER 233 SPRING ST, NEW YORK, NY 10013 USA"
25. Avram, S; Buiu, C; Duda-Seiman, D; Duda-Seiman, C; Borcan, F; Mihailescu, D; ",Evaluation of the pharmacological descriptors related to the induction of antidepressant activity and its prediction by QSAR/QRAR methods,Mini reviews in medicinal chemistry,12,6,467-476,2012,Bentham Science Publishers
26. Apostol, Silviu; Sofronia, Alexandru; **Mihailescu, Dan**; Petrescu, Livia; ",One size does not fit all! A theoretical model for adaptive tutoring systems,The International Scientific Conference eLearning and Software for Education,2,,44,2012,"" Carol I" National Defence University"
27. Avram, Speranța; Milac, Adina-Luminița; **Mihailescu, Dan**; ",3D-QSAR study indicates an enhancing effect of membrane ions on psychiatric drugs targeting serotonin receptor 5-HT1A,Molecular BioSystems,8,5,1418-1425,2012,Royal Society of Chemistry
28. Avram, Speranta; **Mihailescu, Dan**; Borcan, Florin; Milac, Adina-Luminita; ",Prediction of improved antimicrobial mastoparan derivatives by 3D-QSAR-CoMSIA/CoMFA and computational mutagenesis,Monatshefte für Chemie-Chemical Monthly,143,4,535-543,2012,Springer Vienna
29. Petrescu, LIVIA; Strungaru, CARMEN ADRIANA; **Mihailescu, DF**; Salistean, ADRIAN; Niculescu, CLAUDIA; IONESCU-TIRGOVISTE, CONSTANTIN; ",3D body scanning technology, a method for assessing early risk of diabetes",Proc Rom Acad,1,,8-Mar,2012,
30. Ionescu, Alina; Mernea, Maria; Vasile, Ionut; Brandus, Catalina Alice; Barbinta-Patrascu, Marcela Elisabeta; Tugulea, Laura; **Mihailescu, Dan**; Dascalu, Traian; ",Study of supported phospholipid bilayers by THz-TDS,"Terahertz Emitters, Receivers, and Applications III",8496,,849614,2012,International Society for Optics and Photonics
31. Petrescu, Livia; Cinteza, Otilia; Voiculescu, Ana-Maria; Rosu, Tudor; Enculescu, Ionut; Matei, Elena; Georgescu, Serban; Birjega, Ruxandra; Avram, Speranta; **Mihailescu, Dan**; ",Interaction of NaYF4: Er: Yb Nanoparticles with Phospholipid Monolayers as Models of Biological Membranes,Revista De Chimie,63,9,956-961,2012,"CHIMINFORM DATA SA CALEA PLEVNEI NR 139, SECTOR 6, BUCHAREST R-77131, ROMANIA"
32. Duda-Seiman, Daniel; **Mihailescu, Dan**; ",Computational Mutagenesis,Recent Trends on QSAR in the Pharmaceutical Perceptions,,63,2012,Bentham Science Publishers
33. Avram, Speranta; Duda-Seiman, Daniel; Borcan, Florin; Radu, Beatrice; Duda-Seiman, Corina; **Mihailescu, Dan**; ",Evaluation of antimicrobial activity of new mastoparan derivatives using QSAR and computational mutagenesis,International Journal of Peptide Research and Therapeutics,17,1,17-Jul,2011,Springer
34. Tarko, LASZLO; Avram, SPERANTA; **Mihailescu, Dan**; ",Prediction for antidepressants activity using QSAR Study,Rev Chim (Bucuresti),62,,371-5,2011,
35. Necula, Gheorghe; Mihai, Maria E; Sbarcea, Claudiu E; Dinu, Sorin; Lupulescu, Emilia; Ceausu, Emanoil; StreinuYercel, 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,
36. Mernea, Maria; Calborean, Octavian; Zatreanu, Diana; Sandu, Oana; Dascalu, Traian; Mihailescu, Dan; ",Macromolecular crowding effects studied by THz spectroscopy and molecular modeling,EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS,40,,112-113,2011,"SPRINGER 233 SPRING ST, NEW YORK, NY 10013 USA"
37. Mernea, Maria; Leca, Aurel; Dascalu, Traian; **Mihailescu, Dan**; ",Bovine serum albumin 3D structure determination by THz spectroscopy and molecular modeling,Terahertz and Mid Infrared Radiation,,101-105,2011,"Springer, Dordrecht"
38. Mernea, Maria; CĂLBOREAN, Octavian; Andrei, TIȚA; Mihailescu, Dan Florin; ",PRO206SER AND ARG441HIS MUTATIONS INFLUENCE ON HUMAN TRYPTOPHAN HYDROXYLASE 2 ACTIVITY–A MOLECULAR MODELING STUDY,REVUE ROUMAINE DE CHIMIE,56,8,833-841,2011,
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
40. Dinca, MP; Leca, A; Apostol, D; Mernea, M; Calborean, O; **Mihailescu, D**; Dascalu, T; ",Transmission THz time domain system for biomolecules spectroscopy,Journal of optoelectronics and advanced materials,12,1,110-114,2010,INOE 2000
41. Avram, Speranta; Buiu, Catalin; Duda-Seiman, Daniel M; Duda-Seiman, Corina; **Mihailescu, Dan**; ",3D-QSAR design of new escitalopram derivatives for the treatment of major depressive disorders,Scientia pharmaceutica,78,2,233-248,2010,Austrian Pharmaceutical Society

42. Avram, Speranta; Duda-Seiman, Daniel Marius; Duda-Seiman, Corina; Borcan, Florin; **Mihailescu, Dan**; "Predicted binding rate of new cephalosporin antibiotics by a 3D-QSAR method: a new approach, Monatshefte für Chemie-Chemical Monthly, 141, 5, 589-597, 2010, Springer Vienna

Data:

13/12/2022

Semnătura:

Prof. Dr. Mihăilescu Dan FLorin