

Autorul tezei de abilitare: Conf. Dr. Dr. Monica Florescu

Titlul tezei de abilitare: Abordări inovatoare pentru noi metodologii de diagnostic și terapie

Domeniul: Medicină

**FIȘA DE AUTOEVALUARE A ÎNDEPLINIRII STANDARDELOR MINIMALE ȘI OBLIGATORII
PENTRU ACORDAREA ATESTATULUI DE ABILITARE**

Candidat: Monica Florescu

Data nașterii: 27.07.1970

Funcția actuală: Conferențiar Universitar

Instituția: Universitatea *Transilvania* din Brașov

1. Studii universitare (licență și masterat)

Nr. Crt.	Instituția de învățământ superior și facultatea	Domeniul	Perioada	Titlul acordat
1	Universitatea din București, Facultatea de Fizică	Fizică	1988-1993	Licențiat în fizică

2. Studii de doctorat

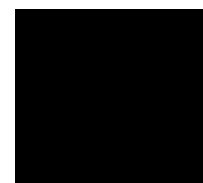
Nr. Crt.	Instituția organizatoare de doctorat	Domeniul	Perioada	Titlul acordat
1	Universitatea din București, Facultatea de Fizică	Fizică	2000-2007	Doctor în fizică
2	Universitatea Transilvania din Brașov, Facultatea de Medicină	Medicină	2011-2019	Doctor în medicină

3. Studii și burse postdoctorale (stagiile de cel puțin 6 luni)

Nr. Crt.	Instituția	Domeniul/ Specializarea	Perioada	Titlul de bursă
1	Universitatea Wisconsin-Milwaukee, USA	Fizică/ Biofizică	2007-2008	postdoctoral

4. Standarde minimale ale universității și CNATDCU (comisia Medicină)

Post didactic	Realizări conform standardelor proprii ale universității
Conferențiar Universitar	(i) Nr. Articole ISI Autor Principal: 27 (ii) Nr. Articole ISI Coautor: 15 (iii) Index Hirsch: 16 (iv) (ISI) Factor cumulat de impact autor principal (FCIAP): 58.875



Condiții minimele CNATDCU			
Nr. Crt.	Categoria		
	Domeniul de activitate	Condiții Abilitare de îndeplinit	Condiții Abilitare realizate
1	Nr. Articole ISI Autor Principal	10	27
2	Nr. Articole ISI Coautor	5	15
3	Index Hirsch	6	16
4	FCIAP	10	58.875

Nr. Crt.	Articole în reviste cotate ISI Web of Science - Autor Principal	Factor de impact
1	M. Florescu and A. Katerkamp, <i>Optimisation of a polymer membrane used in optical oxygen sensing</i> , Sensors and Actuators B 97 (2004) 39–44, DOI: 10.1016/S0925-4005(03)00603-8	2.083
2	M. Florescu and C.M.A. Brett, <i>Development and characterization of cobalt hexacyanoferrate modified carbon electrodes for electrochemical biosensors</i> , Analytical Letters Vol. 37, No. 5, pp. 871–886, 2004, DOI: 10.1081/AL-120030284	1.165
3	M. Florescu and C.M.A. Brett, <i>Development and evaluation of electrochemical enzyme biosensors based on carbon film electrodes</i> , Talanta 65 (2005) 306–312, doi: 10.1016/j.talanta.2004.07.003	2.391
4	M. Florescu , M. Barsan, R. Pauliukaite, C. M.A. Brett, <i>Development and application of oxysilane sol–gel electrochemical glucose biosensors based on cobalt hexacyanoferrate modified carbon film electrodes</i> , Electroanalysis 19, 2007, No. 2-3, 220 – 226, DOI: 10.1002/elan.200603714	2.949
5	M. Florescu and C.M.A. Brett, <i>Evaluation of cobalt hexacyanoferrate modified carbon film electrodes for electrochemical glucose biosensors</i> , Revue Roumaine de Chimie , 2007, 52(10), 969–974. WOS:000257405600007	0.262
6	M. Florescu and C.M.A. Brett, <i>Nanostructured biosensors development for environmental measurements</i> , Journal of Optoelectronics and Advanced Materials Vol. 10, No. 3, March 2008, 713 - 716. WOS:000254588800050	0.577
7	M. Florescu , M. Badea, <i>Untitled</i> , Editorial Material, <i>Analytical Letters</i> , 2011, 44(8), 2841-2842. WOS:000298081200001	1.150
8	M. Florescu* , <i>Third International Conference: Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2014) June 13-15, 2014, Brasov, Romania</i> , Analytical Letters , VOL. 49,(3), 2016, 331-334. DOI: 10.1080/00032719.2015.1070167	1.150
9	M. Florescu , W. Hu, <i>Evaluation of Si nanowire as biosensing device</i> , Journal of optoelectronics and advanced materials , Vol. 17, No. 7-8, July – August 2015, p. 1092 - 1098, ISSN: 1454 – 4164, eISSN: 1841-7132. WOS:000359967600030	0.383

10	C. Rădulescu, C. Stih, M. Ilie, D. Lazurcă, R. Gruia, O. T. Olaru, O. Bute, I. D. Dulamă, R. Știrbescu, S. Teodorescu, M. Florescu* , <i>Characterization of Phenolics in Lavandula angustifolia</i> , Analytical Letters , VOL. 50,(17), 2017, 2839–2850. http://dx.doi.org/10.1080/00032719.2016.1264409	1.150
11	M. Florescu* , <i>4th International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2016: June 29-July 1, 2016, Brasov - Romania</i> (http://icanmbes.unitbv.ro), Analytical Letters , VOL. 50 (17), 2017, 2661-2664. https://doi.org/10.1080/00032719.2017.1354869	1.206
12	M. Florescu* , M. David, <i>Tyrosinase-based biosensor for selective dopamine detection</i> , 2017, Sensors Journal , 2017, 17, 1314; doi:10.3390/s17061314.	2.677
13	M. Florescu* , C. Stih, C. Rădulescu, I. D. Dulamă, O. Bute, R. Știrbescu, S. Teodorescu, A. Serban, <i>Mineral composition of lavandula angustifolia flowers and hippophae rhamnoides fruits extracts</i> , Journal of Science and Arts , 4(41), 2017, 789-794. WOS:000418405300020	0.000
14	M. David, M. M. Barsan, C. M.A. Brett, and M. Florescu* , <i>Improved Glucose Label-Free Biosensor with Layer-by-Layer Architecture and Conducting Polymer poly(3,4-ethylenedioxythiophene)</i> , 2018, Sensors and Actuators B Chem. , 255, 2018, 3227-3234. https://doi.org/10.1016/j.snb.2017.09.149	6.393
15	M. David, M. Badea, M. Florescu* , <i>Development and evaluation of sol-gel-based biosensors for cadmium ions detection</i> , Environmental Engineering and Management Journal , 17(2), 2018. WOS:000427084800008	1.186
16	C. G. Chilom, M. Bacalum, M. M. Stanescu, M. Florescu* , <i>Insight into the interaction of human serum albumin with folic acid: A biophysical study</i> , Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy , 2018, 204, 648–656. DOI: 10.1016/j.saa.2018.06.093	2.931
17	M. David, A. Serban, C. V. Popa, M. Florescu* , <i>A Nanoparticle-Based Label-Free Sensor for Screening the Relative Antioxidant Capacity of Hydrosoluble Plant Extracts</i> , Sensors 2019, 19(3), Article Number: 590. DOI: 10.3390/s19030590	3.031
18	M. David, A. Serban. C. Radulescu, A. F. Danet, M. Florescu* , <i>Bioelectrochemical evaluation of plant extracts and gold nanozyme-based sensors for total antioxidant capacity determination</i> , Bioelectrochemistry , 2019, 129, 124-134. DOI: 10.1016/j.bioelechem.2019.05.011	4.474
19	M. Florescu , L. Rogozea, <i>Comment from the Editors on the Special Issue: Advanced Analytical Methods in Clinical Diagnosis and Therapy</i> , Journal of Clinical Medicine , 2019, 8(11), DOI: 10.3390/jcm8111936	4.242
20	I. Milosan, M. Florescu* et. al., <i>Electrochemical Evaluation of Heat-Treated AISI 316 Stainless Steel in Solar Furnaces to be used as possible implant material</i> , Materials , 2020, 13, 581; DOI: 10.3390/ma13030581.	2.972
21	C. G. Chilom, M. David, M. Florescu* , <i>Monitoring biomolecular interaction between folic acid and bovine serum albumin</i> , Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy , 2020, 230, 118074. DOI: 10.1016/j.saa.2020.118074.	2.931

22	M. David, A. C. Chebac, M.G. Chirita, M.J. Carezim, C. Santos, M. Florescu* , <i>An impedimetric sensor for levothyroxine detection towards point of care applications</i> , IEEE 2021 International Workshop on Impedance Spectroscopy (IWIS) , 2021, 99-103, DOI: 10.1109/IWIS54661.2021.9711839.	0.000
23	M. David, I. Budziak-Wieczorek, D. Karcz, M. Florescu* , A. Matwijczuk, <i>Insight into dual fluorescence effects induced by molecular aggregation occurring in membrane model systems containing 1,3,4-thiadiazole derivatives</i> , European Biophysics Journal with Biophysics Letters , 2021, 50(8), 1083-1101. DOI: 10.1007/s00249-021-01569-7	1.733
24	N. Sandu, C. G. Chilom, M. Florescu* , <i>Molecular insights into binding mechanism of rutin to bovine serum albumin–Levothyroxine complex: Spectroscopic and molecular docking approaches</i> , Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 2022, 264, 120261. DOI: 10.1016/j.saa.2021.120261	4.098
25	M. David, A. Serban, T.A. Enache, M. Florescu* , <i>Electrochemical quantification of levothyroxine at disposable screen-printed electrodes</i> , Journal of Electroanalytical Chemistry , 2022, 911, 116240. DOI: 10.1016/j.jelechem.2022.116240	4.464
26	N. Cazacu, C. G. Chilom, M. David, M. Florescu* , <i>Conformational changes in the BSA-LT4 complex induced by the presence of vitamins: spectroscopic approach and molecular docking</i> , International Journal of Molecular Sciences , 2022, 23, 4215. DOI: 10.3390/ijms23084215.	6.208
27	N. Sandu, C. G. Chilom, M. David, M. Florescu* , <i>Evaluation of the interaction of levothyroxine with bovine serum albumin using spectroscopic and molecular docking studies</i> , Journal of Biomolecular Structure & Dynamics , 2022, 40(3), 1139-1151. DOI: 10.1080/07391102.2020.1822919	5.235

Nr. Crt.	Articole în reviste cotate ISI Web of Science - Coautor	Factor de impact
1	S. De Luca, M. Florescu , M.E. Ghica, A. Lupu, G. Palleschi, C.M.A. Brett and D. Compagnone, <i>Carbon film electrodes for oxidase-based enzyme sensors in food analysis</i> , Talanta 68 (2005) 171–178, DOI: 10.1016/j.talanta.2005.06.017	2.391
2	R. Pauliukaite, M. Florescu , C. M. A. Brett, <i>Characterization of cobalt- and copper hexacyanoferrate-modified carbon film electrodes for redox-mediated biosensors</i> , J Solid State Electrochem (2005) 9: 354–362, DOI: 10.1007/s10008-004-0632-8	1.158
3	F. N. Crespilho, M. E. Ghica, M. Florescu , F. C. Nart, O. N. Oliveira, Jr. C. M.A. Brett, <i>A strategy for enzyme immobilization on layer-by-layer dendrimer–gold nanoparticle electrocatalytic membrane incorporating redox mediator</i> , Electrochemistry Communications 8 (2006) 1665–1670, DOI: 10.1016/j.elecom.2006.07.032	3.484
4	M. M. Barsan, E. M. Pinto, M. Florescu , and C. M.A. Brett, <i>Development and characterization of a new conducting carbon composite electrode</i> , Analytica Chimica Acta 635 (2009) 71–78, doi: 10.1016/j.aca.2009.01.012	3.757

5	M.R. Stoneman, M. Florescu , M.P. Fox, W.D. Gregory, A. Hudetz, V. Raicu, <i>Non-Debye dielectric behaviour and near-field interactions in biological tissues: when structure meets function</i> , Journal of Non-Crystalline Solids 356 (2010) 772–776, doi: 10.1016/j.jnoncrysol.2009.06.056	1.492
6	L. Floroian, F. Sima, M. Florescu , M. Badea, A.C. Popescu, N. Serban, I.N. Mihailescu, <i>Double layered nanostructured composite coatings with bioactive silicate glass and polymethylmetacrylate for biomimetic implant application</i> , Journal of Electroanalytical Chemistry 648 (2010) 111–118, doi: 10.1016/j.jelechem.2010.08.005	2.733
7	L. Floroian, M. Florescu , F. Sima, G. Popescu-Pelin, C. Ristoscu, I.N. Mihailescu, <i>Synthesis of biomaterial thin films by pulsed laser technologies: Electrochemical evaluation of bioactive glass-based nanocomposite coatings for biomedical applications</i> , Materials Science and Engineering: C , Volume 32, Issue 5, 1 July 2012, Pages 1152–1157. Imprint: ELSEVIER, ISSN: 0928-4931. DOI 10.1016/j.msec.2012.03.001, DOI 10.1016/j.msec.2012.03.001	2.404
8	Barsan, M.M., David, M., Florescu, M. , Țugulea, L., Brett, C.M.A. <i>A new self-assembled layer-by-layer glucose biosensor based on chitosan biopolymer entrapped enzyme with nitrogen doped graphene</i> , Bioelectrochemistry , 99, pp. 46-52, 2014, Publisher: Elsevier, ISSN: 1567-5394. DOI: 10.1016/j.bioelechem.2014.06.004	4.172
9	L. Floroian, M. Florescu , D. Munteanu, M. Badea, G. Popescu-Pelin, C. Ristoscu, F. Sima, M.C. Chifiriuc, I.N. Mihailescu, <i>A new concept of stainless steel medical implant based upon composite nanostructures coating</i> , Digest Journal of Nanomaterials and Biostructures , Vol. 9, No. 4, October - December 2014, p. 1555 - 1568. WOS:000346138800029	0.945
10	M. David, M. M. Barsan, M. Florescu , and C. M.A. Brett, <i>Acidic and Basic Functionalized Carbon Nanomaterials as Electrical Bridges in Enzyme Loaded Chitosan/Poly(styrene sulfonate) Self-Assembled Layer-by-Layer Glucose Biosensors</i> , Electroanalysis , 2015, 27, 1 – 12, Online ISSN: 1521-4109, DOI: 10.1002/elan.201500171	2.471
11	F. A. Martin, D. Marconi, S. Neamtu, T. Radu, M. Florescu , R. Turcu, C. Lar, N. D. Hădade, I. Grosuc, I. Turcu, <i>“Click” access to multilayer functionalized Au surface: A terpyridine patterning example</i> , Materials Science and Engineering C , 75 (2017) 1343–1350. ISSN: 0928-4931, DOI: 10.1016/j.msec.2017.03.033.	5.080
12	C. Radulescu, R. L. Olteanu, C. Stih, M. Florescu , et al., <i>Chemometric Assessment of Spectroscopic Techniques and Antioxidant Activity for Hippophae rhamnoides L. Extracts Obtained by Different Isolation Method</i> , Analytical Letters , 2019, 52(15), 2393-2415. DOI: 10.1080/00032719.2019.1590379	1.248
13	C. Gabor, D. Cristea, I.L. Velicu, M. Florescu , et al., <i>Ti-Zr-Si-Nb Nanocrystalline Alloys and Metallic Glasses: Assessment on the Structure, Thermal Stability, Corrosion and Mechanical Properties</i> , Materials 12(9), 2019, Article Number: 1551. DOI: 10.3390/ma12091551	2.972

14	C. Rădulescu, R.L. Olteanu, C. Stih, M. Florescu , R. Știrbescu, S. Teodorescu, SG. Stanescu, CM. Nicolescu, M. Bumbac, <i>Chemometrics based-vibrational spectroscopy for Juglandis semen extracts investigation</i> , Journal of Chemometrics , 2020; e3234. DOI: 10.1002/cem.3234.	1.847
15	M. David, M. Florescu , C. Bala, <i>Biosensors for Antioxidants Detection: Trends and Perspectives</i> , Biosensors , 2020, 10, 112; DOI:10.3390/bios10090112	3.240

30.10.2023

Conf. Dr. Dr. Monica Florescu

