

CURRICULUM VITAE

MONICA FLORESCU

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Scopus Author ID: 8582836700

EDUCATION

2007: University of Bucharest, Faculty of Physics,

- PhD in Physics, *Summa cum laude*.
- Subject: “Biophysical methods of active biological compounds detection”.

2000-2001: Transilvania University of Brasov, Romania,

- Post-graduate specialization course. Subject: „Environmental quality monitoring”.
- Post-graduate Diploma

1988 -1993: University of Bucharest, Faculty of Physics, (MSc) Physicist.

- Specialization Biophysics (4 semesters)
- Bachelor Diploma (equivalent of Master’s Diploma): “Transport process through blood-brain barrier”

1994-1988: “Radu Negru” High School, Fagaras, Romania.

- Specialization Mathematics-Physics,
- High-School Diploma (Baccalaureate)

OTHER STUDIES

2017: Transilvania University of Brasov, Romania.

- Training program “Developing academic abilities of teaching staff - Conditions of academic success”.

2012: International Course "Electroporation for Medicine: Basic Knowledge, Applications and Technologies" Carol Davila University of Medicine, Bucharest, Romanian Society of Pure and Applied Biophysics. October 25-27, 2012.

2007 - 2008 (12 months) postdoctoral fellowships, Faculty of Medicine and Faculty of Physics (Biophysics Laboratory), University of Wisconsin-Milwaukee, USA, (the study of biological tissues (brain) in vivo dielectric spectroscopy techniques, EEG).

2007: Transilvania University of Brasov, Romania.

- Training program “Interactive methods for teaching-learning-evaluation process”

2005: International Summer School, Sept. 2005, Cluj-Napoca, Romania.

- “NANOMA 2005” - Physics and Chemistry of NANO-Materials Preparation, Analytics, Theory, and Applications

2004-2005: Transilvania University of Brasov, Romania:

- Specialization Curs „Web Based Trainers – Wide Open Resource for Learning and Development”.

2003: International Autumn School of Biophysics, Oct. 2003, Gaiser, Romania.

- “Non-invasive Biophysical Methods and their application in Biology and Medicine”

2001: International Summer School, Aug. 2001, Mangalia, Romania.

- “Cultural and organizational change in university teaching”

FELLOWSHIPS

2015: Short-Term Scientific Mission, COST TD 1104 Action - EP4Bio2Med, European network for development of electroporation-based technologies and treatments. Universiteit Twente, Institute for Nanotechnology (MESA+), Microfluidics for nanomedicine, Prof. Dr. Séverine Le Gac.

2012: Research Internship: Nanoscale Integration Lab, University of Texas-Dallas, USA (nano-biosensors development using SiNW-FET). Prof. Dr. Walter Hu

2007-2008: Postdoctoral Scholarship, University of Wisconsin-Milwaukee, Department of Physics, WI, USA.

2005-2006: PhD Research Internship at "Universidade de Coimbra", Coimbra, Portugal. Prof. Dr. Christopher M.A. Brett.

2002-2003: Erasmus PhD Scholarship at "Universidade de Coimbra", Coimbra, Portugal. Prof. Dr. Christopher M.A. Brett.

2002: PhD Short-term scholarship DAAD (German Academic Exchange Service) at “Institut für Chemo- und Biosensorik”, Münster, Germany.

PROFESSIONAL EXPERIENCE

2011- in present: Transilvania University of Brasov, Romania.

Position: Assistant Professor on Biophysics and Medical Physics, Department of Fundamental, Prevention and Clinical Disciplines, Faculty of Medicine.

2004- 2011: Transilvania University of Brasov, Romania.

Position: Assistant Professor of Physics, Department of Physics, Faculty of Technological Engineering.

1998- 2004: Transilvania University of Brasov, Romania.

Position: Junior Assistant Professor, Department of Physics, Faculty of Technological Engineering.

1994-1998: High School, Brasov, Romania.

Position: Physics high school teacher in Brasov, Romania.

1993-1994: “Geneva-Romfarm SRL” Bucharest, Romania.

Position: Technical consultant for biomedical devices

1992-1993: “Institute of Endocrinology” and “Neurosurgery’s Hospital” Bucharest, Romania.

Position: Undergraduate researcher

ACADEMIC COURSES TAUGHT

- Courses: Biophysics and Medical Physics, Biophysics, General Physics.
- Coordination of laboratory activities on physics and biophysics with students,
- Theoretical classes on physics and biophysics with students.

- Mentoring activities of students.

INVITED LECTURES

2010- 2012: Invited professor at the Summer School „LLP – ERASMUS Intensive Programme:

- Classic and modern methods for molecular diagnostics in human pathology, 2010 – 2011”, „2011 – 2012”, Brasov, Romania
- Summer School in the frame of CEEPUS program: “Modern Analytical and Bioanalytical Methods, 2010-2011”, Pardubice, Czech Republic.
- Summer School „LLP – ERASMUS Intensive Programme: Bioanalytical methods for life sciences, 2009-2010”, Brasov, Romania.

MANAGERIAL EXPERIENCE

2018-2020: Project manager of **complex research project:** PNIII-P1-1.2-PCCDI-2017-0062 (New diagnostic and treatment methodologies: current challenges and technological solutions based on nanomaterials and biomaterials - SANOMAT)

2018: MC Member for Romania to COST Action CA15126 (Between Atom and Cell: Integrating Molecular Biophysics Approaches for Biology and Healthcare (MOBIEU))

2017: Grant RO–JINR Dubna: Responsible person for Romania and Chairperson of the Organizing Committee of 8th International Student Summer School “Nuclear Physics – Science and Applications” (NUCPHYS-SC&APPL), 2017, Brasov, Romania. Organized together with Joint Institute for Nuclear Research (JINR), Dubna, Russian Federation.

2015 -2017: Director of **research project - VEDETAX -PN-II-RU-TE-2014-4-2801.**

2010-2016: International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences “**IC-ANMBES 2010, 2012, 2014, 2016, 2018**” <http://icanmbes.unitbv.ro/>.

- Co-Chairperson and organizer, Member of International Scientific Committee.
- **Associate Editor** of special issues of “*Analytical Letters*” dedicated to each editions “IC-ANMBES”
- **Associate Editor** of special issues of *Journal of Clinical Medicine, Bioelectrochemistry, Sensors, Chemosensors* and *Biosensors* Journals dedicated to “IC-ANMBES 2016, 2018”
- Co-organizing **TD 1104 COST Action Meeting and Special Session** on Electroporation at IC- ANMBES 2014.

2008 -2011: Director of **research project – TIPSARMER, No. 72-172/2008.**

PEER REVIEWER

- ISI ranked journals: *Sensors and Actuators B, Bioelectrochemistry, International Journal of Biological Macromolecules, Surface Review and Letters, Journal of Electroanalytical Chemistry, Current Pharmaceutical Analysis, Analytical Letters, Applied Surface Science, Catalysis Today, Monatshefte für Chemie-Chemical Monthly, Food Analytical Methods, Journal of Non-Crystalline Solids, Current Analytical Chemistry*
- National and international projects

FOREIGN LANGUAGES:

- English: fluent, Portuguese: well, French: well.

AWARDS

2016: Best Poster Award at IC-ANMBES 2016, Brasov, Romania.

2015: Best paper awarded by Romanian Society of Pure and Applied.

2009: Award for outstanding publication in ISI journal, Transilvania University, Brasov, Romania.

2007: Best Oral Presentation Award at ICSAM Conference-2007, Patras, Grecia.

PROFESSIONAL MEMBERSHIPS

- Bioelectrochemical Society
- European Biophysical Societies Association
- Romanian Society of Pure and Applied Biophysics
- Romanian Society of Physics
- College Of Medical Physicists In Romania

Project	Period	Volum Lei	Publications
PN-III-Proiecte de cercetare complexe, PN-III-P1-1.2-PCCDI2017-0062, nr. 58/2018	2018-2020	614672	-
PN-II –Tinere Echipa PN-II-RU-TE-2014-4-2801 nr 199 din 01/10/2015.	2015-2017	549700	<p>1.M. David, M. M. Barsan, C. M.A. Brett, and M. Florescu*, 2018, <i>Sensors and Actuators B Chem.Journal</i>, 255, 2018, 3227-3234.</p> <p>2. M. David, M. Florescu*, M. M. Barsan, C. M.A. Brett, <i>Procedia Technology</i> 2017, 27, 304-305.</p> <p>3. M. Florescu, C. Stihi, C. Radulescu, I. D. Dulama, R. M. Stirbescu, S. Teodorescu, A. Serban, <i>Journal of Science and Art</i>, 2017, 4(41), 789-794.</p> <p>4. C. Rădulescu, C. Stihi, M. Ilie, D. Lazurcă, R. Gruia, O. T. Olaru, O. Bute, I. D. Dulamă, R. Știrbescu, S. Teodorescu, M. Florescu*, <i>Analytical Letters</i>, 2017, VOL. 50, NO. 17, 2839–2850.</p>
MCI nr. 10M/18.05.2018, Contract de finanțare a manifestărilor științifice și evenimentelor asociate, IC-ANMBES 2018.	2018	8000	M. Florescu, V. Raicu, I. Turcu, J.L. Marty, S. LeGac (Editor), <i>Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences</i> , IC-ANMBES 2018, Book of Abstract, <i>Transilvania University Press, Brasov</i> , 2018. ISBN 978-973-598-722-0

ANCS nr. 48M/08.05.2016, Contract de finanțare a manifestărilor științifice și evenimentelor asociate, IC- ANMBES 2016.	2016	7000	<p>1. M. Florescu*, <i>Analytical Letters</i>, VOL. 50,(17), 2017, 2661-2664.</p> <p>2. M. Florescu (Editor), <i>Biophysics for Biomedical and Environmental Sciences, Transilvania University Press, Brasov, 2016, ISBN 978-606-19-0768-7.</i></p> <p>3. M. Florescu, V. Raicu, I. Turcu, J.L. Marty, S. LeGac (Editor), <i>Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2016, Book of Abstract, Transilvania University Press, Brasov, 2016. ISBN 978-973-598-722-0</i></p>
ANCS nr. 18M/08.05.2014, Contract de finanțare a manifestărilor științifice și evenimentelor asociate, IC- ANMBES 2014.	2014	4000	<p>1. M. Florescu*, <i>Analytical Letters</i>, VOL. 49,(3), 2016, 331-334.</p> <p>2. M. Florescu, V. Raicu, I. Turcu, J.L. Marty, S. LeGac (Editor), <i>Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, Book of Abstract, Transilvania University Press, Brasov, 2014. ISBN 978-973-598-722-0</i></p>

ANCS nr. 48M/26.05.2010, Contract de finanțare a manifestărilor științifice și evenimentelor asociate, IC- ANMBES 2010.	2010	6380	<p>1. M. Florescu, M. Badea, J.L. Marty, V. Raicu, (Editor), Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2010, Book of Abstract, <i>Transilvania University Press, Brasov</i>, 2010. ISBN 978-973-598-722-0</p> <p>2. M Florescu (Editor), Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences: Proceedings of IC-ANMBES 2010, <i>Transilvania University Press, Brasov</i>, ISBN: 978-973-598-722-0.</p>
PNCDI2-Parteneriate nr 72-172. 01.10.2008 "Tehnici de inalta precizie si sensibilitate aplicate in retele de biomonitorizare a poluarii mediului cu factori poluanti din zonele de dezvoltare de sud, sud-est si centrala ale Romaniei - TIPSARMER",	2008-2011	46119	I. Švancara, M. Florescu, L. Baldrianová, E. Svobodová, M. Stočes, M. Badea, Carbon Paste Electrodes Modified with a Hydrolytic Product Obtained from an Antimony(III) Salt, in: Sensing in Electroanalysis, Vol. 5, Eds: K. Vytras, K. Kalcher, I. Svancara, <i>University Press Centre, Pardubice, Czech Republic</i> , 2010. ISBN 978-80-7395-348-5 (printed); 978-80-7395-349-2 (on-line).

List of publications

(articles, books, chapters, studies published, projects)

Monica Florescu

Articles:

List 10 Articles

1. C. G. Chilom, M. Bacalum, M. M. Stanescu, **M. Florescu***, Insight into the interaction of human serum albumin with folic acid: A biophysical study, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2018, 204, 648–656. DOI: 10.1016/j.saa.2018.06.093.
2. M. David, M. Badea, **M. Florescu***, Development and evaluation of sol-gel-based biosensors for cadmium ions detection, *Environmental Engineering and Management Journal*, 2018, Feb2018, Vol. 17, Issue 2, 317-326.
3. M. David, M. M. Barsan, C. M.A. Brett, and **M. Florescu***, Improved Glucose Label-Free Biosensor with Layer-by-Layer Architecture and Conducting Polymer poly(3,4-ethylenedioxythiophene), *Sensors and Actuators B: Chemical*, 255 (2018) 3227–3234. DOI: 10.1016/j.snb.2017.09.149.
4. **M. Florescu***, M. David, Tyrosinase-based biosensor for selective dopamine detection, *Sensors* 2017, 17, 1314-1329; DOI:10.3390/s17061314.
5. **M. Florescu***, W. Hu, Evaluation of Si nanowire as biosensing device, *Journal of optoelectronics and advanced materials*, Vol. 17(7-8), July – August 2015, p. 1092 - 1098, ISSN: 1454 – 4164, eISSN: 1841-7132.
6. **M. Florescu*** and C.M.A. Brett, Nanostructured biosensors development for environmental measurements, *Journal of optoelectronics and advanced materials*, Vol. 10, No. 3, March 2008, 713 – 716, ISSN: 1454 - 4164
7. F. N. Crespilho, M. E. Ghica, **M. Florescu**, F. C. Nart, O. N. Oliveira, Jr. C. M.A. Brett, A strategy for enzyme immobilization on layer-by-layer dendrimer–gold nanoparticle electrocatalytic membrane incorporating redox mediator, *Electrochemistry Communications* 8 (2006) 1665–1670, , Imprint: Elsevier Science BV. ISSN: 1388-2481, DOI: 10.1016/j.elecom.2006.07.032
8. **M. Florescu** and C.M.A. Brett, “Development and evaluation of electrochemical glucose enzyme biosensors based on carbon film electrodes”, *Talanta*, Volume 65,

Issue 2, 30 January 2005, Pages 306-312, Imprint: Elsevier Science BV, ISSN: 0039-9140, DOI: 10.1016/j.talanta.2004.07.003.

9. **M. Florescu** and C.M.A. Brett, "Development and characterization of cobalt hexacyanoferrate modified carbon electrodes for electrochemical biosensors", *Analytical Letters*, Volume 37, Number 5, 2004, Pages 871 - 886, Publisher: Taylor & Francis, Philadelphia, USA, ISSN: 0003-2719 (Paper) 1532-236X (Online), DOI: 10.1081/AL-120030284.

10. **M. Florescu** and A. Katerkamp, "Optimisation of a polymer membrane used in optical oxygen sensing", *Sensors and Actuators B: Chemical*, Volume 97, Issue 1, 1 January 2004, Pages 39-44, Imprint: Elsevier Science BV, ISSN: 0925-4005, DOI: 10.1016/S0925-4005(03)00603-8.

Doctorat Thesis

Monica Florescu, Metode biofizice de detecție a substanțelor biologice active, (Biophysical methods of active biological compounds detection), Universitatea Bucuresti, Romania, 2007.

Published chapters and books:

1. **M. Florescu (Editor)**, *Biophysics for Biomedical and Environmental Sciences* (Edited by Monica Florescu), pp. 211-223, Transilvania University Press, Brasov, 2016, ISBN 978-606-19-0768-7.

M. David, **M. Florescu**, Biomolecular interaction evaluation using surface plasmon resonance. SPR biosensors, in: *Biophysics for Biomedical and Environmental Sciences* (Edited by Monica Florescu), pp. 211-223, Transilvania University Press, Brasov, 2016, ISBN 978-606-19-0768-7.

M. Florescu, Biosensors as molecular diagnostic tool for early detection of cancer protein biomarkers, in: *Methods for Diseases Diagnostic with Applicability in Practice*, Edited by Antonella Chesca, LAP Lambert Academic Publishing, 2014, ISBN 3847345028, 978-3-8473-4502-2.

M. David, **M. Florescu**, M. M. Barsan, L. Tugulea and C. M.A. Brett, Development and Characterization of Layer-by-Layer Biosensors Based on PEI⁽⁺⁾/GOx⁽⁻⁾ Layers Using Label-Free Methods, in *Sensing in Electroanalysis*, Vol. 8 (K. Kalcher, R.

Metelka, I. Švancara, K. Vytřas; Eds.), pp. 329-346. 2013/2014 University Press Centre, Pardubice, Czech Republic. ISBN 978-80-7395-782-7 (printed); 78-80-7395-783-4 (pdf).

V. Veregut, **M. Florescu**, M. Badea, Classic and modern methods for detection of serotonin, in *Sensing in Electroanalysis*. Volume 7 (K. Kalcher, R. Metelka, I. Švancara, K. Vytřas; Eds.). pp. 97–106, 2012, University Press Centre, Pardubice, Czech Republic. ISBN 978-80-7395-563-2 (printed); 978-80-7395-564-9 (on-line).

V Buzea, M Florescu, M Badea, Detection of heavy metals in biological samples through anodic stripping voltammetry, in *Sensing in Electroanalysis*. Volume 7 (K. Kalcher, R. Metelka, I. Švancara, K. Vytřas; Eds.). pp. 97–106, 2012, University Press Centre, Pardubice, Czech Republic. ISBN 978-80-7395-563-2 (printed); 978-80-7395-564-9 (on-line).

M. Florescu, Label free biosensors in human molecular diagnostics of diseases, pag. 135-147, in *Diagnostic Methods in Human Pathology*, Edited by Antonella Chesca, Transilvania University Press, Brasov, ISBN 978-606-19-0059-6, 2012.

M. David, M.Badea, **M. Florescu**, Performance evaluation of acetylcholinesterase-based biosensors for heavy metal detection, in: *Sensing in Electroanalysis*, Vol. 6 (K. Kalcher, R. Metelka, I. Švancara, K. Vytřas; Eds.), pp. 337-346. 2011 University Press Centre, Pardubice, Czech Republic. ISBN 978-80-7395-434-5 (printed); 978-80-7395-435-2 (on-line).

Badea M., Idomir M., **Florescu M.**, Rogozea L., Electrochemical sensing in telemedicine, in Sensing in Electroanalysis, in: *Sensing in Electroanalysis*, Vol. 6 (K. Kalcher, R. Metelka, I. Švancara, K. Vytřas; Eds.), pp. 337-346. 2011 University Press Centre, Pardubice, Czech Republic. ISBN 978-80-7395-434-5 (printed); 978-80-7395-435-2 (on-line).

M. Florescu, Biophysical methods used for molecular diagnostics in human pathology, in *Methods for Cellular and Molecular Diagnostics in Human Pathology*, Eds. A. Chesca si M. Ozturk, Istanbul University Press House, 2011. ISBN 978-975-404-895-7.

M Florescu (Editor), Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences: Proceedings of IC-ANMBES 2010, Transilvania University Press, Brasov, ISBN: 978-973-598-722-0.

M Florescu, M Badea, JL Marty, V Raicu (Editors), Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences: Brasov, IC-ANMBES 2010, Transilvania University Press, Brasov, ISBN 978-973-598-722-0.

M. Florescu, Mass sensitive sensors and EQCM application in life sciences in *Bioanalytical Methods for Life Sciences. Chromathography. Sensors and Biosensors*, Eds. M. Badea, M. Florescu, Transilvania University Press, 2010. ISBN 978-973-598-723-7.

I. Švancara, **M. Florescu**, L. Baldrianová, E. Svobodová, M. Stočes, M. Badea, Carbon Paste Electrodes Modified with a Hydrolytic Product Obtained from an Antimony(III) Salt, in: *Sensing in Electroanalysis, Vol. 5*, Eds: K. Vytras, K. Kalcher, I. Svancara, University Press Centre, Pardubice, Czech Republic, 2010. ISBN 978-80-7395-348-5 (printed); 978-80-7395-349-2 (on-line).

M. Florescu, Dielectric spectroscopy and dielectrophoretic separation methods used in biomedical applications, in *Bioanalytical Methods for Life Sciences. Chromathography. Sensors and Biosensors*, Eds. M. Badea, M. Florescu, Transilvania University Press, 2010. ISBN 978-973-598-723-7.

M. Badea, **Florescu M.**, (Editors), *My first book on bioanalytical methods*, Ed. Universitatii Transilvania din Brasov, Brasov, 2010, 204 pg. ISBN 978-973-598-743-5.

M Badea., **Florescu M.**, Coman Gh. (Editors), *Bioanalytical Methods for Life Sciences. Immunochemical methods. Applied Bioanalytical Methods in Medicine, Food Control and Environmental Protection*, Ed. Universitatii Transilvania din Brasov, Brasov, 2010, ISBN 978-973-598-724-4. Nr. Pag. 208.

M. Badea, **Florescu M.** (Editors), *Bioanalytical Methods for Life Sciences. Chromatography. Sensors and Biosensors*, Ed. Universitatii Transilvania din Brasov, Brasov, 2010, ISBN 978-973-598-723-7. Nr. Pag. 142.

M. Badea, **Florescu M.** (Editors), *Multilanguages Glossary of Keywords specific to Bioanalytical Methods for Life Sciences*, Ed. Universitatii Transilvania din Brasov, Brasov, 2010, ISBN 978-973-598-725-1. Nr. Pag. 152

M. Badea, **M. Florescu**, Gh. Coman, N. Taus, J.-L. Marty, Characterisation of electrochemical sensors and enzymatic methods used for ascorbic acid detection, in: *Sensing in Electroanalysis, Vol. 4*, Eds: K. Vytras, K. Kalcher, I. Svancara, University Press Centre, Pardubice, Czech Republic, 2009. ISBN 978-80-7395-9.

M. Badea, **M. Florescu**, Gh. Coman, A. Chesca, J.-L. Marty, Comparative Studies for Pollutants Detection Using Electrochemical Sensors and Enzyme-Based Biosensors in: *Sensing in Electroanalysis, Vol. 4*, Eds: K. Vytras, K. Kalcher, I. Svancara, University of Pardubice, 2009. ISBN 978-80-7395-9.

M. Florescu, *Metode Biofizice de Analiza – Senzori si Biosenzori*, Editura Universitatii „Transilvania”, Brasov, 2008, ISBN 978-973-598-270-6. Nr. Pag. 114.

M. Florescu, A. Armaselu, N. Dihoiu, *Fizica Moleculara si Caldura*, Editura Universitatii „Transilvania”, Brasov, 2007, ISBN 978-973-598-069-6.

M. Florescu, S.Adam, N. Dihoiu, *Fizica Generala*, Editura Universitatii „Transilvania”, Brasov, 2007, ISBN 978-973-598-173-0.

M. Florescu, C.Stihi, Editors, *Methods and techniques used in forest fires and environmental monitoring*, Transilvania University Press, Brasov, 2007, ISBN 978-973-598-156-3 (pp: 9-12, 29-43, 48-51, 56-74, 75-81, 82-92,). Nr. Pag. 120.

M. Florescu, B. Horvath, Editors, *Methods and techniques used in forest fires and environmental monitoring - Laboratory book*, Transilvania University Press, Brasov, 2007, ISBN 978-973-598-168-6 (65-69).Nr. pag. 96

M. Florescu, C. Stihi, Editori, *Metode si tehnici de monitorizare si prevenire a incendiilor forestiere*, Editura Universitatii Transilvania, Brasov, 2007, ISBN 978-973-598-155-6 (pp: 9-12, 12-16, 17-20, 31-32, 49-53, 54-56, 81-90, 90-107). Nr. Pag. 140.

M. Florescu, B. Horvath, Editori, *Metode si tehnici de monitorizare si prevenire a incendiilor forestiere - Aplicatii practice*, Editura Universitatii Transilvania, Brasov, 2007, ISBN 978-973-598-169-3 (pp: 41-48). Nr. Pag. 60

M. Florescu, N. Dihoiu, *Biofizica si fizica generala-Lucrari practice*, Editura Universitatii „Transilvania”, Brasov, 2004, 142 pag, ISBN 973-635-317-6. Nr. Pag. 140.

M. Badea, **M. Florescu**, Ghe. Coman, „Immunofluorescence” in *Analytical biotechnology. Principles and applications*, Editura Universitatii Transilvania Brasov, 2004, ISSN 1584-0506, ISBN 973-635-393-1. Nr. Pag. 7.

ISI Articles

1. C. G. Chilom, M. Bacalum, M. M. Stanescu, **M. Florescu***, Insight into the interaction of human serum albumin with folic acid: A biophysical study, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2018, 204, 648–656. DOI: 10.1016/j.saa.2018.06.093.
2. M. David, M. Badea, **M. Florescu***, Development and evaluation of sol-gel-based biosensors for cadmium ions detection, *Environmental Engineering and Management Journal*, 2018, Feb2018, Vol. 17, Issue 2, 317-326.
3. M. David, M. M. Barsan, C. M.A. Brett, and **M. Florescu***, Improved Glucose Label-Free Biosensor with Layer-by-Layer Architecture and Conducting Polymer poly(3,4-ethylenedioxythiophene), *Sensors and Actuators B: Chemical*, 255 (2018) 3227–3234. DOI: 10.1016/j.snb.2017.09.149.
4. **M. Florescu**, C. Stih, C. Radulescu, I. D. Dulama, R. M. Stirbescu, S. Teodorescu, A. Serban, Mineral Composition Of Lavandula Angustifolia Flowers And Hippophae Rhamnoides Fruits Extracts, *Journal of Science and Art*, 2017, 4(41), 789-794. ISSN: 1844-9581.
5. **M. Florescu***, M. David, Tyrosinase-based biosensor for selective dopamine detection, *Sensors* 2017, 17, 1314-1329; DOI:10.3390/s17061314.
6. **M. Florescu***, 4th International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2016, *Analytical Letters*, 2017, 50(17), 2661-2664. DOI: 10.1080/00032719.2017.1354869.
7. C. Rădulescu, C. Stih, M. Ilie, D. Lazurcă, R. Gruia, O. T. Olaru, O. Bute, I. D. Dulamă, R. Știrbescu, S. Teodorescu, **M. Florescu***, Characterization of Phenolics in *Lavandula angustifolia*, *Analytical Letters*, 2017, 50(17), 2839-2850, DOI: 10.1080/00032719.2016.1264409.
8. F. A. Martin, D. Marconi, S. Neamtu, T. Radu, **M. Florescu**, R. Turcu, C. Lar, N. D. Hădade, I. Grosuc, I. Turcu, “Click” access to multilayer functionalized Au surface: A terpyridine patterning example, *Materials Science and Engineering C*, 75 (2017), 1343–1350. DOI: 10.1016/j.msec.2017.03.033
9. **M. Florescu**, Third International Conference: Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2014) June 13–15, 2014, Brasov, Romania, *Analytical Letters*, Vol. 49, Issue 3, 2016, p. 331-334.

DOI:10.1080/00032719.2015.1070167, ISSN 0003-2719 (Print), 1532-236X (Online).

10. **M. Florescu***, W. Hu, Evaluation of Si nanowire as biosensing device, *Journal of optoelectronics and advanced materials*, Vol. 17(7-8), July – August 2015, p. 1092 - 1098, ISSN: 1454 – 4164, eISSN: 1841-7132.

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Participations in International and National Projects

Programul/Proiectul	Funcția	Perioada:
PN-III-Proiecte de cercetare complexe, PN-III-P1-1.2-PCCDI2017-0062, nr. 58/2018	Responsabil proiect	2018-2020
ANCS nr. 10M/18.05.2018, Contract de finanțare a manifestărilor științifice și evenimentelor asociate, IC-ANMBES 2016.	Director proiect	2018
PN-II –Tinere Echipa PN-II-RU-TE-2014-4-2801 nr 199 din 01/10/2015.	Director proiect	2015-2017
Proiect international FP7-PlantLIBRA - nr. 245199	membru	2010-2014
ANCS nr. 48M/08.05.2016, Contract de finanțare a manifestărilor științifice și evenimentelor asociate, IC-ANMBES 2016.	Director proiect	2016
ANCS nr. 18M/08.05.2014, Contract de finanțare a manifestărilor științifice și evenimentelor asociate, IC-ANMBES 2014.	Director proiect	2014
ANCS nr. 48M/26.05.2010, Contract de finanțare a manifestărilor științifice și evenimentelor asociate, IC-ANMBES 2010.	Director proiect	2010
PNCDI2-Parteneriate nr 72-172. 01.10.2008 “Tehnici de înalta precizie si sensibilitate aplicate in rețele de biomonitorizare a poluarii mediului cu factori poluanti din zonele de dezvoltare de sud, sud-est si centrala ale Romaniei - TIPSARMER”,	Coordonator local	2008-2011
PN-II-ID-Cercetare exploratorie „Dezvoltarea unor modele teoretice avansate asupra mecanismelor implicate in tromboza si validarea acestora prin experimente microfluidice complexe”	Membru	2008-2011
PN-II-ID-Parteneriate „Sistem micro - electro - mecanic pentru cartografierea fasciculelor nervoase in reconstructia microchirurgicala a nervilor periferici (BrainMap)”	Membru	2008-2011

Socrates/Erasmus Program Curricula Development Dissemination (DISS) Project “Bioanalytical Methods-Linking Environmental Protection and Public Health”, 51388-IC-2003-1-RO-ERASMUS-DISSUC-2	Membru	2004-2005
European Project „Evaluation/validation of novel biosensors in real environmental and food samples (validation of biosensors)”, QLK3-2000-01311, Coimbra, Portugalia	Membru	2005-2006
European Project “Novel Technology for Controlling Wine Production and Quality (NovTech)”, N° HPRN-CT-2002-00186, Coimbra, Portugalia	Membru	2005-2006 2002-2003
Socrates/Erasmus Program Curricula Development Project “Bioanalytical Methods-Linking Environmental Protection and Public Health”.	Membru	2002-2003
Tempus EuroCEP – European Romanian – Courses for Environmental Protection – IB_JEP 14395-99.	Membru	1999-2002
University of Wisconsin-Milwaukee, SUA, “Studiul tesuturilor biologice prin tehnici de spectroscopie dielectrica”	Membru	2007-2008
Socrates/Erasmus Program Curricula Development, “Forest fires – preventing and monitoring” 51388 - IC -1-2005-1-RO - ERASMUS – MOD.	Coordonator stiintific local	2005-2007