

PERSONAL INFORMATION

CORINA FLANGEA



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Sex Female | Date of birth 31/05/1974 | Nationality Romanian

WORK EXPERIENCE

September 2014-present MD expert in Laboratory Medicine
"Pius Brinzeu" Emergency University Hospital Timisoara, 156, Liviu Rebreanu Street, Timisoara 300723, Romania, Clinical Laboratory www.hosptm.ro
Laboratory diagnosis

September 2014-present Senior Lecturer
Teaching activities: pharmacology, paraclinical toxicology (abuse substances/xenobiotics/metals)
Business or sector - Education
Pharmacology Discipline Department IV, "Victor Babes" University of Medicine and Pharmacy Timișoara, 2A Eftimie Murgu Square, Timișoara 300041, Romania, www.umft.ro

October 2011 – September 2014 Senior Lecturer
Teaching activities at Faculty of Food Engineering, Tourism and Environmental Protection
Food biotechnologies, food microbiology
Business or sector - Education
Aurel Vlaicu University of Arad, Revolutiei Blvd 77, Arad

February 2003-January 2010 Assistant Professor
Teaching activities at Biochemistry Department of Victor Babes University of Medicine and Pharmacy Timisoara
Business or sector - Education
Pharmacology Discipline Department IV, "Victor Babes" University of Medicine and Pharmacy Timișoara, 2A Eftimie Murgu Square, Timișoara 300041, Romania, www.umft.ro
2005 – PhD degree

EDUCATION AND TRAINING

- 2005-2010 Medical Expert in Laboratory Medicine
Microbiology, Virology, Parasitology, Mycology, Biochemistry and Haematology
Victor Babes University of Medicine and Pharmacy Timisoara
- 2001-2005 PhD
Pathology, Hematology and Immunohistochemistry
Victor Babes University of Medicine and Pharmacy Timisoara
- 2000-2005 Medical Specialist in Laboratory Medicine
Microbiology, Virology, Parasitology, Mycology, Biochemistry and Haematology
Victor Babes University of Medicine and Pharmacy Timisoara
- 1992-1998 Medical Doctor
Preclinical (anatomy, biochemistry, cell biology, biophysics, physiology, histology, pathological morphology, pathological physiology, pharmacology) and clinical domains (medical, surgical, pediatrics and radio-imagistic)
Victor Babes University of Medicine and Pharmacy Timisoara

PERSONAL SKILLS AND COMPETENCES

Mother language Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2++	B2++	B2++	B2++	B2++

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Capacity to adapt to multicultural environments
- Good communications skills acquired as a result of the teaching and participant in various scientific congresses, professional upgrade courses

Computer skills

- a good knowledge of Microsoft Office™ tools

Other skills

- 04. 10 2004 – 03.12 2004 Programe Leonardo Da Vinci “Genomic approaches in diagnosis of cardiovascular and cancer in Romania, ”Max-Planck-Institute for Molecular Genetics Berlin, Germany (Prof. Dr. Hans Lehrach)
- 6.11.2007 – 30.11.2007 Purified the proteoglycan decorin from skin fibroblast and transfected 293 cells; 293 cells transfection for expressing recombinant FGF-2 Institut für Physiologische Chemie und Pathobiochemie Münster, Germany (PD. Dr. Daniela G. Seidler)
- 25.08.2009 – 22.09.2009 Purification of brain proteoglycans by HPLC; digestion of the glycosaminoglycans by specific enzymes and fractionation by FPLC to obtain hexa, octa and longer oligosaccharides for analysis by mass spectrometry Institut für Physiologische Chemie und Pathobiochemie Münster, Germany (PD. Dr. Daniela G. Seidler)

National projects.**1. National project director**

1.1 Project PN-II-RU-TE-2011-3-0008, "Glycomics of brain glycosaminoglycans by advanced mass spectrometric and related hyphenated techniques"

2. National Projects - Member:

Flangea Corina

2.1. Project PN-II-ID-PCE-2011-3-0047, Development of chip-based nanoelectrospray in combination with electron transfer dissociation mass spectrometry for top-down proteomics. Project Director Prof Dr. Alina Zamfir

2.2. Proiect PNII –PARTENERIATE 2007-2010 (Nr. 41001-CNMP) Identification and characterization of brain neoplastic tumours markers expressed in serum and cerebrospinal fluid by mass spectrometry glycomics advanced methods (Director: Prof.Dr. Leon Zagrean); P3 Project manager: Prof. Dr. Sisu Eugen

2.3. Determination of glycosphingolipids in brain by microchip equipment coupled to high throughput mass spectrometry CEEEX 2006-2008 (consortiu -M1 -Viasan) No. 111, Project manager Prof. Dr. Sisu Eugen

2.4. Integration of a high throughput biomedical mass spectrometry Romanian centrum in European and international research - Bio-MS Center CEEEX 2006 (M3 corint), No 98/2006-2008; Project manager Prof. Dr. Alina Zamfir

2.5. Mitochondrial integrative role in cardioprotection from experimental miocardic reperfusion/ischemia. CNCSIS Project A type, 2006-2008; project manager: Prof. Dr. Muntean Danina

2.6. Genetic markers with applications in clinical outcome and therapy response in patients with acute myeloid leukemia. CEEEX project, 2006-2008 project manager: Conf. Dr. Edward Seclaman

2.7. Project OPORTUN - Oportunități de includere și creștere a accesului la învățământul superior medical prin intervenția timpurie asupra grupurilor dezavantajate. 2025-2028, Cod SMIS 323275 Proiect Manager Prof. Dr. Vlad Cristian Sebastian

2.8. Proiect MedDEI Echitate, diversitate și incluziune în educația medicală, Cod CNFIS-FDI-2024-F-0449, 2024, Proiect Manager Prof. Dr. Popescu Roxana

2.9. Proiect "Dezvoltarea cercetării genomice în România (ROGEN)", Cod MySMIS 324809; Nr contract: 96006/17.12.2024, Partener UNIVERSITATEA DE MEDICINA SI FARMACIE " VICTOR BABEȘ " TIMISOARA –P13, Proiect Manager partener P13: Prof. Dr. Chiriță-Emandi Adela, echipa Conf Dr. Georgescu Alina

2.10. Proiect: Creșterea performanței învățământului medical din cadrul Universității de Medicină și Farmacie „Victor Babeș” din Timișoara, COD SMIS: 331055, 2025-2027, Proiect Manager Prof. Dr. Vlad Cristian Sebastian.

3. International projects – Member:

3.1. Improving the management of neoplastic diseases by developing and implementing the cross-border medical center of excellence. Interreg-IPA CBC Romania-Serbia 2019-2021 RORS-498 (Proiect Manager: Prof. Dr. Vlad Daliborca)

Awards

1. **I. G. MURGULESCU Prize of Romanian Academy** for research "Mass spectrometry applied in biological macromolecules studies" - authors: Eugen Șișu, Alina Zamfir, Alina Șerb și Corina Flangea for year 2009 won in 2011

2. 3rd Prize of the jury for the study "Chip-based nanoelectrospray ionization mass spectrometry for biomarker discovery in brain", autori Corina Flangea, Eugen Sisu, Alina D. Zamfir oferit la The 3rd Conference of the National Neuroscience Society of Romania with CEERC-IBRO international Session, October 18-19 2012, Bucharest, Romania

3. 3rd Prize of the jury for the poster „Chip-Based Nanoelectrospray Ionization Mass Spectrometry Of Biglycan Chondroitin/Dermatan Sulfate Oligosaccharides” at 1st Romanian Society for Mass Spectrometry Conference "Introducing Life Science Mass Spectrometry in Romania" April 25-29 2010 Sinaia, Romania

4. 3rd Prize of the jury for the poster „Investigation of glycosaminoglycan sulfation pattern by high performance chip electrospray multistage mass spectrometry” at International Symposium Research and Education in Innovation Era, 2nd Edition, November 20th - 21st, 2008 Arad, Romania

5. 1st Prize for the study "Analiza polizaharidelor de tip condroitin/dermatan sulfat din creier prin spectrometrie" given by the Romanian Academy for Medical Sciences, September 28-30 2008, Sinaia

6. Prize "Prof. Dr. Eugem Mody" given by Asociation of Romanian Medical Laboratories at 2nd Conference of Asociation of Romanian Medical Laboratories, May 24-27 2006, Timisoara.

7. 1st Prize of the jury for the poster presented at 1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety, supported by the program "The NATO Science for Peace and Security Programme" 23-27 septembrie 2007, Baile Herculane

8. 3rd Prize for the project "Determination of glycosphingolipids in brain by microchip equipment coupled to high throughput mass spectrometry (GLYCOLABCHIP)", as member of the CO team ((consortiu -M1 -Viasan) nr. 111, project manager Sisu Eugen) –field A1 sanatare (CEEEX, MI)/subcomisia 1 (2007)

9. 1st Prize of the jury for the poster presented at National Conference of the Romanian Society of Pharmacology, Iasi 9 – 10 octombrie 2025 for study "Implications of antibiotic therapy in the treatment of Clostridium difficile infection"

ADDITIONAL INFORMATION

- Publications**
1. **C. Flangea**, C. Schiopu, E. Sisu, A. Serb, M. Przybylski, D. G. Seidler, A. D. Zamfir, *Determination of sulfation pattern in brain glycosaminoglycans by chip-based electrospray ionization ion trap mass spectrometry*, Anal. Bioanal. Chem., 395, 2489-2498 (2009). **IF/2009=3.480**
 2. **C. Flangea**, A. Serb, E. Sisu, A. D. Zamfir. *Chip-based nanoelectrospray mass spectrometry of brain gangliosides*, Biochimica et Biophysica Acta, 1811, 513–535, (2011). **IF/2011=5.269**
 3. **C. Flangea**, E. Sisu, D. G. Seidler, A. D. Zamfir. *Analysis of oversulfation in biglycan chondroitin/dermatan sulfate oligosaccharides by chip-based nanoelectrospray ionization multistage mass spectrometry*, Anal Biochem, 420, 155-162, (2012). **IF/2012=2.582**
 4. **C. Flangea**, A. Serb, C. Schiopu, S. Tudor, E. Sisu, D. G. Seidler, A. D. Zamfir. *Discrimination of GalNAc (4S/6S) sulfation sites in chondroitin sulfate disaccharides by chip-based nanoelectrospray multistage mass spectrometry*, Cent. Eur. J. Chem., 7, 752–759 (2009). **IF/2009=1.065**
 5. A.D. Zamfir, **C. Flangea**, A. Serb, E. Sisu, N. Dinca, P. Bruckner, D. G. Seidler. *Analysis of novel over- and undersulfated glycosaminoglycan sequences by enzyme cleavage and multiple stage mass spectrometry*, Proteomics, 9, 3435-3444 (2009). **IF/2009=4.426**
 6. C. Schiopu, **C. Flangea**, F. Capitan, A. Serb, Z. Vukelic, S. Kalanj-Bognar, E. Sisu, M. Przybylski, A. D. Zamfir. *Determination of ganglioside composition and structure in human brain hemangioma by chip-based nanoelectrospray ionization tandem mass spectrometry*, Anal. Bioanal. Chem., 395, 2465-2477 (2009). **IF/2009=3.480**
 7. C. Flangea, E. Potencz, R. Mihaescu, S. Giju, A. Anghel. *Bcl-2 expression in Hodgkin's lymphoma progression*. Romanian Journal of Morphology and Embryology, 49, 357-363 (2008)
 8. A. Serb, C. Schiopu, **C. Flangea**, E. Sisu, A. D. Zamfir. *Top-down glycolipidomics: fragmentation analysis of ganglioside oligosaccharide core and ceramide moiety by chip-nanoelectrospray collision-induced dissociation MS²-MS⁶*, J. Mass Spectrom., 44, 1434–1442 (2009). **IF/2009=3.411**
 9. A. D. Zamfir, A. Serb, Ž. Vukelic, **C. Flangea**, C. Schiopu, D. Fabris, S. Kalanj-Bognar, F. Capitan, E. Sisu. *Assessment of the molecular expression and structure of gangliosides in brain metastasis of lung adenocarcinoma by an advanced approach based on fully automated chip-nanoelectrospray mass spectrometry*. J Am. Soc. Mass Spectrom. 22, 2145-2159 (2011). **IF/2011=4.002**
 10. A. D. Zamfir, **C. Flangea**, E. Sisu, D. G. Seidler, J. Peter-Katalinic. *Combining size-exclusion chromatography and fully automated chip-based nanoelectrospray quadrupole time-of-flight tandem mass spectrometry for structural analysis of chondroitin/dermatan sulfate in human decorin*, Electrophoresis, 32, 1639-1646 (2011). **IF/2011=3.303**
 11. E. Sisu, **C. Flangea**, A. Serb, A. Rizzi, A. D. Zamfir. *High-performance separation techniques hyphenated to mass spectrometry for ganglioside analysis*, Electrophoresis, 32, 1591-1609 (2011). **IF/2011=3.303**
 12. A. D. Zamfir, **C. Flangea**, F. Altmann, A. M. Rizzi. *Glycosylation analysis of proteins, proteoglycans and glycolipids by CE-MS*, Adv. Chromatogr. 49, 135-194 (2011). **IF/2011=1.842**
 13. I. Sisu, V. Udrescu, **C. Flangea**, S. Tudor, N. Dinca, L. Rusnac, A.D. Zamfir, E. Sisu. *Synthesis and structural characterization of amino-functionalized polysaccharides*, Cent. Eur. J. Chem. 7, 66-73 (2009). **IF/2009=1.065**
 14. A. Serb, C. Schiopu, **C. Flangea**, Ž. Vukelić, E. Sisu, L. Zagrean, A. D. Zamfir. *High-throughput analysis of gangliosides in defined regions of fetal brain by fully automated chip-based nanoelectrospray ionization multistage mass spectrometry*, Eur. J. Mass Spectrom. 15, 541-553 (2009). **IF/2009=1.340**
 15. E. Sisu, **C. Flangea**, A. Serb, A. D. Zamfir. *Modern developments in mass spectrometry of chondroitin and dermatan sulfate glycosaminoglycans*, Amino Acids, 41, 235-256 (2011). **IF/2011=3.248**
 16. **C. Flangea**, C. Schiopu, F. Capitan, C. Mosoarca, M. Manea, E. Sisu, A. D. Zamfir. *Fully automated chip-based nanoelectrospray combined with electron transfer dissociation for high throughput top-down proteomics*, Cent. Eur. J. Chem. 11, 25-34 (2013). **IF/2012=1.167**
 17. **C. Flangea**, A. J. Petrescu, D. G. Seidler, C. V. Munteanu, A. D. Zamfir. *Identification of an unusually sulfated tetrasaccharide chondroitin/dermatan motif in mouse brain by combining chip-nanoelectrospray multistage MS(2)-MS(4) and high resolution MS*. Electrophoresis, 34, 1581-1592 (2013). **IF/2012=3.261**

18. **C. Flangea**, C. Mosoarca, C. Cozma, M. Galusca, M. Przybylski A. D. Zamfir. *Testing the feasibility of fully automated chip-based nanoelectrospray ionization mass spectrometry as a novel tool for rapid diagnosis of Fabry disease*. *Electrophoresis*, 34, 1572-1580 (2013). **IF/2012=3.261**
19. **C. Flangea**, D. Fabris, Ž. Vukelić, A. D. Zamfir. *Mass spectrometry of gangliosides from human sensory and motor cortex*. *Aus. J. Chem.*, 66, 781-790 (2013) **IF/2012=1.869**
20. A. D. Zamfir, D. Fabris, F. Capitan, C. Munteanu, Ž. Vukelić, **C. Flangea**. *Profiling and sequence analysis of gangliosides in human astrocytoma by high resolution mass spectrometry*. *Anal. Bioanal. Chem.*, 405, 7321-7335 (2013) **IF/2012=3.659**
21. F. Capitan, A.C. Robu, L. Popescu, **C. Flangea**, Z. Vukelic, A.D. Zamfir, AD. B Subunit Monomers of Cholera Toxin Bind G1 Ganglioside Class as Revealed by Chip-Nanoelectrospray Multistage Mass Spectrometry. *Journal of Carbohydrate Chemistry*, 34, 388-408 (2015) **IF/2015 = 0.738**
22. C. D. Vlad, V. Dumitrascu, R. Popescu, A. Cimporescu, C. S. Vlad, **C. Flangea**, D. S. Grecu, C. Vagvolgyi, T. Papp, F. Horhat. *Gas Chromatography - Mass Spectrometry evidences for new chemical insights of Momordica Charantia*. *Rev. Chim (Bucharest)*, 66(11), 1914-1920 (2015) **IF/2015=0,810**
23. C.S. Vlad, D.C. Vlad, R. Popescu, V.M. Boruga, S.L. Istrate, **C. Flangea**, B.G. Barac, I.M. Malita, S.I. Sipos, F. Baderca. *Oral lichen planus - case report*. *Romanian Journal of Morphology and Embryology* 61, 563-567, 2020 (**IF/2020 =1.053**)
24. C.S. Vlad, V. Dumitrascu, D.C. Vlad, R. Popescu, A. Cimporescu, **C. Flangea**, A. Cheveresan, S. Sipos, B. Barac, I. Malita. *Effects of Materials Based on Acrylic Resines on Inflammatory Markers IL-8 and TGF beta 1 in Gingival Crevicular Fluid*. *Materiale plastice* 55, 111-114, 2018 (**IF/2018 = 1.393**)
25. I. Mozos, **C. Flangea**, D.C. Vlad, C. Gug, C. Mozos, D. Stoian, C.T. Luca, J.O. Horbanczuk, O.K. Horbanczuk, A.G. Atanasov. *Effects of Anthocyanins on Vascular Health*. *Biomolecules*, DOI10.3390/biom11060811, 2021 **IF/2021 = 6.064**
26. Mateoc T, Dumitrascu AL, **Flangea C***, Puscasiu D*, Vlad T, Popescu R, Marina C, Vlad DC. *SGLT2 Inhibitors: From Structure-Effect Relationship to Pharmacological Response*. *Int J Mol Sci*. 2025 Jul 19;26(14):6937. **IF/2024 = 4.9**
27. Marina CD, Puscasiu D, **Flangea C***, Vlad T*, Cimporescu A, Popescu R, Moatar AE, Vlad DC. *Adipo-Modulation by Turmeric Bioactive Phenolic Components: From Curcuma Plant to Effects*. *Int J Mol Sci*. 2025 Jul 17;26(14):6880. **IF/2024 = 4.9**
28. **Flangea C**, Vlad D, Popescu R, Dumitrascu V, Rata AL, Tryfon ME, Balasoiu B, Vlad CS. *Cannabis: Zone Aspects of Raw Plant Components in Sport-A Narrative Review*. *Nutrients*. 2025 Feb 28;17(5):861. **IF/2024 = 5**
29. Nan A, Dumitrascu V, **Flangea C***, Dumitrescu G*, Puscasiu D, Vlad T, Popescu R, Vlad C. *From Chemical Composition to Antiproliferative Effects Through In Vitro Studies: Honey, an Ancient and Modern Hot Topic Remedy*. *Nutrients*. 2025 May 6;17(9):1595. **IF/2024 = 5**
30. Puscasiu, D.; **Flangea, C.***; Vlad, D.; Popescu, R.; Vlad, C.S.; Barac, S.*; Rata, A.L.; Marina, C.; Cobec, I.M.; LaiŃin, S.M.D. *Adulteration of Sports Supplements with Anabolic Steroids—From Innocent Athlete to Vicious Cheater*. *Nutrients* 2025, 17, 3146. **IF/2024 = 5**
31. Mateoc, T.; Suci, I.-M.; GaiŃă, D.; Minodora, A.; Popescu, R.; Vlad, T.; **Flangea, C.**; Muntean, C.; Vlad, D.-C. *Early SGLT2 Inhibitor Therapy in Acute Coronary Syndrome: Mitigating Adverse Remodeling in High-Risk Phenotypes—A Real-World Study*. *Medicina* 2026, 62, 205. **IF/2024 = 2.4**
32. Popescu, R.; **Flangea, C.**; Vlad, D.C.; Cobec, I.M.; Seropian, P.; Marina, C.D.; Vlad, T.; Dumitrascu, A.L.; Puscasiu, D. *Nutritional Impact on Breast Cancer in Menopausal and Post-Menopausal Patients Treated with Aromatase Inhibitors*. *Cancers* 2026, 18, 73. **IF/2024 = 4.4**

h-index = 15

**International
Books in
prestigious
publishing houses**

1. A. D. Zamfir, **C. Flangea**, A. Serb, E. Sisu, L. Zagrean, A. Rizzi, D. G. Seidler. Brain Chondroitin/Dermatan Sulfate, from Cerebral Tissue to Fine Structure: Extraction, Preparation, and Fully Automated Chip-Electrospray Mass Spectrometric Analysis; Proteoglycans. Methods and Protocols; Methods in Molecular Biology, vol 836, Springer Protocols, Editura Humana Press, 2012, 145-159
2. A. D. Zamfir, **C. Flangea**, A. Serb, A. M. Zagrean, A. M. Rizzi, E. Sisu. Separation and identification of glycoforms by capillary electrophoresis with electrospray ionization mass spectrometric detection. Methods in Molecular Biology, vol 951, Springer Protocols, Editura Humana Press, 2013, 145-169

