

INFORMATIONS  
PERSONNELLES

FLANGEA CORINA

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Sexe Féminin | Date de naissance 31.05.1974 | Nationalité Roumaine

EXPÉRIENCE  
PROFESSIONNELLE

Septembre 2014 - présent

**Médecin primar Médecine de laboratoire**

Din 2014 - Spitalul Clinic Județean de Urgență "Pius Brînzeu" Timișoara, Compartiment Toxicologie și Biologie Moleculară, Str. Iosif Bulbuca Nr. 10, Timișoara 300736, Romania, Laborator Clinic de Analize Medicale, [www.hosptm.ro](http://www.hosptm.ro)

Octobre 2011 – Septembre 2014

**Sef de lucrari**

Facultatea de Ingineria Alimentara, Turism și Protecția Mediului  
Universitatea Aurel Vlaicu, Arad, Blvd Revoluției nr. 77, Arad

Septembre 2014 - présent

**Sef de lucrari**

Disciplina de Farmacologie, Departamentul IV – Biochimie și Farmacologie, Universitatea de Medicină și Farmacie "Victor Babeș" Timișoara, Piața Eftimie Murgu Nr. 2A, Timișoara 300041, Romania, [www.umft.ro](http://www.umft.ro)

Février 2003 – Septembre 2010;

**Préparateur universitaire, Assistant universitaire**

Disciplina de Biochimie, Departamentul IV – Biochimie și Farmacologie, Universitatea de Medicină și Farmacie "Victor Babeș" Timișoara, Piața Eftimie Murgu Nr. 2A, Timișoara 300041, Romania, [www.umft.ro](http://www.umft.ro)

2005 – Soutenance publique de la thèse de doctorat

## ÉDUCATION ET FORMATION

Mars 2005 – présent

**Certificat de médecin primar**

Ministère de la Santé, Roumanie

- Médecine de laboratoire

Janvier 2000 – Mars 2005

**Certificat de médecin spécialiste**

Ministère de la Santé, Roumanie

- Médecine de laboratoire

Juillet 1996 - Novembre 2002

**Diplôme de docteur en sciences médicales**

Ministère de l'Éducation, Roumanie, Disciplina de Morfopatologie, Departamentul II – Morfologie

microscopica, Universitatea de Medicină și Farmacie "Victor Babeș" Timișoara, Piața Eftimie Murgu Nr. 2A, Timișoara 300041, Romania, www.umft.ro

- Morphopathologie – hématologie

1992 - 1998 **Diplôme de licence, médecin en médecine générale**

Universitatea de Medicină și Farmacie "Victor Babeș" Timișoara

- Medicină generală

#### COMPÉTENCES PERSONNELLES

Limba maternă Roumaine

Autres langues	COMPRÉHENSION		EXPRESSION ORALE		ÉCRIT
	Écouter	Lire	Interaction	Production	
Anglais	B2++	B2++	B2++	B2++	B2++

Niveaux : A1/2: Utilisateur élémentaire - B1/2: Utilisateur indépendant - C1/2: Utilisateur expérimenté  
Cadre européen commun de référence pour les langues

- Compétences en communication**
- Capacité d'adaptation aux environnements multiculturels
  - Excellentes aptitudes à la communication, acquises grâce à des activités d'enseignement et à la participation à divers congrès scientifiques et formations continues.

- Compétences informatiques**
- une bonne connaissance des outils Microsoft Office™

- Autres compétences**
- -04. 10.2004 – 03.12.2004 Programul Leonardo Da Vinci "Genomic approaches in diagnosis of cardiovascular and cancer in Romania" Max-Planck-Institute for Molecular Genetics Berlin, Germania (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, Germania (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, Germania (PD. Dr. Daniela G. Seidler)

### INFORMATIONS COMPLÉMENTAIRES

- 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 nano electrospray 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 nano electrospray 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 nano electrospray 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 nano electrospray 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-nano electrospray collision-induced dissociation MS<sup>2</sup>-MS<sup>6</sup>*, 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-nano electrospray 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 nano electrospray 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. Mozos, I.; **Flangea, C.**; Vlad, D.C.; Gug, C.; Mozos, C.; Stoian, D.; Luca, C.T.; Horbańczuk, J.O.; Horbańczuk, O.K.; Atanasov, A.G. *Effects of Anthocyanins on Vascular Health*. *Biomolecules* 2021, 11, 811. **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.; Laitin, 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.; Gaiță, 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**
**Traités internationaux chez des éditeurs prestigieux**

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

**Prix**

1. **Premiul I. G. MURGULESCU AL ACADEMIEI ROMANE** pentru Grupul de lucrări: Spectrometria de masă aplicată la studiul macromoleculilor biologice - autori: Eugen Șișu, Alina Zamfir, Alina Șerb și **Corina Flangea** pe anul 2009 oferit în 2011
2. Premiul 3 al juriului pentru lucrarea "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. Premiul 3 al juriului pentru posterul „Chip-Based Nanoelectrospray Ionization Mass Spectrometry Of Biglycan Chondroitin/Dermatan Sulfate Oligosaccharides” oferit la 1<sup>st</sup> Romanian Society for Mass Spectrometry Conference “Introducing Life Science Mass Spectrometry in Romania” April 25-29 2010 Sinaia, Romania
4. Premiul 3 al juriului pentru posterul „Investigation of glycosaminoglycan sulfation pattern by high performance chip electrospray multistage mass spectrometry” oferit la International Symposium Research and Education in Innovation Era, 2nd Edition, November 20th - 21st, 2008 Arad, Romania
5. Premiul I pentru lucrarea Analiza polizaharidelor de tip condroitin/dermatan sulfat din creier prin spectrometrie de masa oferit de Academia Romana de Stiinte Medicale, Sinaia, 28-30 septembrie 2008
6. Premiul “Prof. Dr. Eugem Mody” conferit de catre Asociatia Laboratoarelor Medicale din Romania cu ocazia celei de-a doua conferinta a Asociatiei Laboratoarelor Medicale din Romania, desfasurata la Timisoara, in perioada 24-27 mai 2006
7. Premiul I la sesiunea de postere conferit cu ocazia 1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety, workshop sustinut de programul “The NATO Science for Peace and Security Programme” si desfasurat la Baile Herculane in perioada 23-27 septembrie 2007
8. Premiul 3 pentru proiectul “Determinarea expresiei glicosfingolipidelor complexe in sistemul nervos central prin dispozitive de microchipuri integrate polifunctionale cuplate cu spectrometria de masa de inalta performanta (GLYCOLABCHIP)”, grant castigat prin competitie din care fac parte ca si membru al echipei CO ((consortiu -M1 -Viasan) nr. 111, val.15 mld.lei; director Sisu Eugen) -aria tematica A1 sanatate (CEEX, MI)/subcomisia 1 (2007)
9. Premiul 1 la sesiunea de postere pentru lucrarea “ Implicații ale antibioterapiei în tratamentul infecției produsă de Clostridium difficile”. Autori: Isabella Stoian, Crăciunescu Teodora, Tania Vlad, Cristina Marina, Roxana Popescu, Daliborca Vlad, Simona Șișoș, **Corina Flangea**. Conferința Națională a Societății Române de Farmacologie, 9 – 10 octombrie 2025 Iasi.

**Projets****Nationaux – directeur de projet**

1. Proiect PN-II-RU-TE-2011-3-0008, "Glycomics of brain glycosaminoglycans by advanced mass spectrometric and related hyphenated techniques" valoare 750.000 lei, finantat de UEFISCDI.

**Nationaux – membre de l'équipe**

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

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

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

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

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

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

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

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

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, Manager Proiect partener P13: Prof. Dr. Chiriță-Emandi Adela, echipa Conf Dr. Georgescu Alina

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

**Internationaux – membre de l'équipe**

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 (Director proiect Prof. Dr. Vlad Daliborca)