

PERSONAL INFORMATION

Oprean (born Sass) Camelia



POSITION
October 2016 - ongoing

Lecturer – Department of Drug analysis. Chemistry of environmental factors, hygiene, nutrition. (University of Medicine and Pharmacy "Victor Babeş" Timișoara, Faculty of Pharmacy)

WORK EXPERIENCE

January 2022- ongoing

Resident pharmacist

"Dr Gavril Curteanu" Municipal Hospital (Spitalul Clinic Municipal "Dr.Gavril Curteanu"), Oradea; Address: Strada Corneliu Coposu 12, Oradea 410469; <https://scmo.ro/>
Type of activity Pharmaceutical services in hospital pharmacy system

January 2017 – December 2022

Research assistant

Timiș County Emergency Clinical Hospital (Spitalul Clinic Județean de Urgență "Pius Brînzeu" Timișoara); Address: Bulevardul Liviu Rebreanu 156, Timișoara 300723, <https://www.hosptm.ro/>
• Research in analytical chemistry (HPLC, LC-MS, GC-MS) and toxicology
Type of activity research

September 2016 - September 2022

Teaching assistant

Discipline of Principles of drug analysis. Discipline of Chemistry of environmental factors, hygiene, nutrition , University of Medicine and Pharmacy "Victor Babeş" Timișoara, Faculty of Pharmacy (2 Eftimie Murgu Sq., Timișoara, 300041, Romania; <http://www.umft.ro>)

- Support laboratories and discussion sessions
- Assessment of students through tests and laboratory exams
- Coordination of students in their final year dissertation

Type of activity University education

February 2013 - September 2016

Teaching assistant

Discipline of Pharmaceutical Chemistry, University of Medicine and Pharmacy "Victor Babeş" Timișoara, Faculty of Pharmacy (2 Eftimie Murgu Sq., Timișoara, 300041, Romania; <http://www.umft.ro>)

- Support laboratories and discussion sessions
- Assessment of students through tests and laboratory exams
- Coordination of students in their final year dissertation

Type of activity University education

October 2011 - February 2013

Associate Teacher

Discipline de Toxicology, University of Medicine and Pharmacy "Victor Babeş" Timișoara, Faculty of Pharmacy (2 Eftimie Murgu Sq., Timișoara, 300041, Romania; <http://www.umft.ro>)

- Support laboratories and discussion sessions
- Assessment of students through tests and laboratory exams

Type of activity University education

February 2012- September 2012

Pharmacist

SC. Pharmacon Medaten SRL. (Calea Dorobanților street, No. 20, Timișoara, România (<http://www.farmacia-aten.ro>))

- Pacient counselling on the proper use and adverse effect of drugs, OTC drugs and parapharmaceuticals products
 - Ensure the correct and safe supply of medical products to the general public
- Type of activity Pharmaceutical services in community pharmacy system

September 2011 – January 2012

Teacher

"Ana Aslan" National College, Timișoara, Health Post Highschool (B-dul Revoluției 1989 Nr. 15/A Timișoara, România; <http://www.cnanaaslan-tm.ro>)

- Teaching Quality Management courses and seminars
 - Assessment of students through tests and laboratory exams
- Type of activity Preuniversity education

EDUCATION AND TRAINING

October 2011 - October 2015

PhD in medicine

ISCED6

Departament of Functional Sciences de Științe Funcționale, University of Medicine and Pharmacy "Victor Babeș" Timișoara, Faculty of Pharmacy (2 Eftimie Murgu Sq., Timișoara, 300041, Romania; <http://www.umft.ro>)

- Research topic: "Triterpenic compounds with antitumor effect: *in vitro* and *in vivo* experimental studies"
- Preclinical toxicology research
- Cell cultures, *in vitro* evaluation of the active compounds in the prophylaxis / therapy of cancer
- *In vivo* experimental tumor models
- Development of drug formulations with cyclodextrins, nanoparticles

2006-2011

Pharmacist

ISCED5

Faculty of Pharmacy , University of Medicine and Pharmacy "Victor Babeș" Timișoara, (2 Eftimie Murgu Sq., Timișoara, 300041, Romania; <http://www.umft.ro>)

RESEARCH ACTIVITY

Research projects

Member

1. The *in vitro* and *in vivo* evaluation of the mechanisms of cell death induced by the magnetic nanoparticles' interaction with tumor cells - PIII-C4-PCFI-2016/2017-03, acronym NANOCEL (2016-2017)
2. Environmental factors and epigenetic mechanisms – a common link in chronic kidney diseases – PN-II-RU-TE-2014-4-181/2015 (2015-2017)
3. The synthesis of compounds with antitumor potential by derivatization reactions and their characterization by hifenate techniques. Assessing the anti-angiogenic, anticancer and anti-inflammatory activity - SYNTANTITUM, Innovative partnerships in basic research- PIII-C1-PCFI-2014/2015
4. New formulations of ursolic and oleanolic acids applicable in tumor and antimicrobial therapy – POSDRU/159/1.5/S/136893. (2014-2015)

Affiliations

- The College of Pharmacists from Romania (Cphr)

PERSONAL SKILLS AND COMPETENCES

Mother tongue(s) Romanian

Other language(s) European level (*)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	

English Language	C1	C1	C1	C1	C1
French Language	B1	B1	B1	B1	B1

(*) Common European Framework of Reference for Languages

Social skills and competences

- Good teaching skills
- Good communication skills, ability to adapt to the students level of knowledge by teaching in Romanian and French
- Capacity of synthesis

Organisational skills and competences

Right Path Profile: Networker
Leadership (Member of the executive committee of student organization OSCET- Organization of Evangelical Students from Timișoara (2008-2012); Coordinator of event planning team (6-8 people), in OSCET student organization: weekly meetings with students, student camps - volunteer (2008-2010)

Technical skills and competences

- Skills in the use of general laboratory equipment and devices, such as spectrophotometers, centrifuges, pH-meters, ultrasound devices etc.
- Skills for specific devices such as the Courage Khazaka (tewameter, corneometer, mexameter), HPLC, GC-MS, mass spectrometry
- basic knowledges of electrophoresis, flowcitometry, immunohistochemistry, RT-PCR

Computer skills and competences

Good command of Microsoft Office™ (Word, Excel, Power Point), HTML, Accelrys draw, Mendeley

Driving license

Owner of B category driving license (2008)

ANNEX

A. Books:

1. Angela Caunii, **Camelia Oprean**, Zoltan Szabadai, *Noțiuni de chimia și igiena apei și alimentului, Ediția a 2-a revizuită*, suport curs, Ed. Victor Babeș, Timișoara, recunoscută CNCIS, ISBN 978-606-786-014-6, 300 pg., 2016
2. Angela Caunii, **Camelia Oprean**, *Chimia apei și a alimentului - metode de analiză și elemente de dietoterapie*, suport lucrări practice Ed. Victor Babeș, Timișoara, recunoscută CNCIS, ISBN 978-606-786-017-7, 141 pg., 2016
3. Angela Caunii, **Camelia Oprean**, Lucreția Udrescu, Laura Sbârcea, Water and food chemistry – Methods of analysis and elements of diet therapy, Ed. Victor Babeș, Timișoara, recunoscută CNCIS, ISBN 978-606-786-312-3, q162 pg., 2023

B. Published papers (last 10 years):

1. Budu, O.; Mioc, A.; Soica, C.; Caruntu, F.; Milan, A.; **Oprean, C.**; Lighezan, D.; Rotunjanu, S.; Ivan, V.; Banciu, C. Lactiplantibacillus plantarum Induces Apoptosis in Melanoma and Breast Cancer Cells. *Microorganisms* 2024, 12, 182. <https://doi.org/10.3390/microorganisms12010182>. (IF 2022: 4.5)
2. Prodea, A.; Milan, A.; Mioc, M.; Mioc, A.; **Oprean, C.**; Racoviceanu, R.; Negrea-Ghiulai, R.; Mardale, G.; Avram, Ș.; Balan-Porcărașu, M.; et al. Novel Betulin-1,2,4-Triazole Derivatives Promote In Vitro Dose-Dependent Anticancer Cytotoxicity. *Processes* 2024, 12, 24. <https://doi.org/10.3390/pr12010024>. (IF. 2022: 3.5)
3. Ivan A, Cristea MI, Telea A, **Oprean C**, Galuscan A, Tatu CA, Paunescu V. Stem Cells Derived from Human Exfoliated Deciduous Teeth Functional Assessment: Exploring the Changes of Free Fatty Acids Composition during Cultivation. *Int. J. Mol. Sci.* 2023, 24, 17249. <https://doi.org/10.3390/ijms242417249>. (IF 2022: 5.6)
4. Ungureanu, A.R.; Popovici, V.; **Oprean, C.** (corresponding author); Danciu, C.; Schröder, V.; Olaru, O.T.; Mihai, D.P.; Popescu, L.; Lut, ă, E.-A.; Chit, escu, C.L.; et al. Cytotoxicity Analysis and In Silico Studies of Three Plant Extracts with Potential Application in Treatment of Endothelial Dysfunction. *Pharmaceutics* 2023, 15, 2125. <https://doi.org/10.3390/pharmaceutics15082125>. (IF 2022: 5.4)
5. Romanescu M, **Oprean C*** (corresponding author), Lombrea A, Badescu B, Teodor A, Constantin G, Andor M, Folescu R, Muntean D, Danciu C, Daller O, Batrina SL, Cretu O, Buda VO. Current State of Knowledge Regarding WHO High Priority Pathogens—Resistance Mechanisms and Proposed Solutions through Candidates Such as Essential Oils: A Systematic Review. *Int. J. Mol. Sci.* 2023, 24, 9727. <https://doi.org/10.3390/ijms24119727> (IF 2022: 5.6)
6. Mioc M, Mioc A, Racoviceanu R, Ghiulai R, Prodea A, Milan A, Tudoran LB, Oprean C, Ivan V, Soica C. The Antimelanoma Biological Assessment of Triterpenic Acid Functionalized Gold Nanoparticles. *Molecules.* 2023, 28 (1): 421. DOI 10.3390/molecules28010421; eISSN: 1420-3049. (IF 2022: 4.6)
7. Kis B, Pavel IZ, Avram S, Moaca EA, San Juan MH, Schwiebs A, Radeke H, Muntean D, Diaconeasa Z, Minda D, Oprean C, Bojin F, Dehelean CA, Soica C, Danciu C. Antimicrobial activity, in vitro anticancer effect (MCF-7 breast cancer cell line), antiangiogenic and immunomodulatory potentials of Populus nigra L. buds extract. *BMC Complementary Medicine and Therapies.* 2022, 22 (1):74. DOI 10.1186/s12906-022-03526-z; eISSN 2662-7671. (IF: 3.9)

8. Drăghia LP, Lukinich-Gruia AT, **Oprean C**, Pavlovic NM, Paunescu V, Tatu CA. Aristolochic acid I: an investigation into the role of food crops contamination, as a potential natural exposure pathway. *Environmental Geochemistry and Health*. 2021, 40(10): 4163-4178, DOI: 10.1007/s10653-021-00903-4; ISSN 15732983, 02694042. (IF 2020-2021: 4.609)
9. Corina Danciu, Claudia Watz (Farcaș), Oana Cioanc, Monica Hancianu, Roxana Racoviceanu, Delia Muntean , Istvan Zupko, **Camelia Oprean**, Calin Tatu, Virgil Paunescu, Maria Proks, Zorita Diaconeasa, Codruta Soica, Iulia Pinzaru, Cristina Dehelean. Botanical Therapeutics (Part II): Antimicrobial and In Vitro Anticancer Activity against MCF7 Human Breast Cancer Cells of Chamomile, Parsley and Celery Alcoholic Extracts. *Anti-Cancer Agents in Medicinal Chemistry*. 2021; 21(2):187-200. DOI: 10.2174/1871520620666200807213734; ISSN 18715206 (print), 18755992 (online). (IF 2020: 2.505)
10. Lemon Balm Extracts Prevent Breast Cancer Progression In Vitro and In Ovo on Chorioallantoic Membrane Assay. Ghiulai R, Avram S, Stoian D, Pavel IZ , Coricovac D, **Oprean C**, Vlase L, Farcaș C, Mioc M, Minda D, Motoc A, Szuhaneck C, Danciu C, Soica C, Sima L. *Evidence-Based Complementary And Alternative Medicine*, 2020, Vol 2020: 6489159, DOI. 10.1155/2020/6489159; ISSN: 1741-427X (Print) ISSN: 1741-4288 (Online). (IF: 1.813)
11. Ivan A, Lam D, Cristea MI, Telea A, Gruia AT, **Oprean C**, Margineanu F, Bojin FM, Saffery R, Paunescu V, Tatu CA. Differential methylation pattern of xenobiotic metabolizing genes and susceptibility to Balkan endemic nephropathy, in a cohort of Romanian patients. *Journal of Nephrology*. 2020, 33 (1):91-100. doi: 10.1007/s40620-019-00621-2; ISSN 1724-6059. (IF: 3.902)
12. Drăghia LP, Lukinich-Gruia AT, **Oprean C**, Paunescu V, Tatu CA. Preliminary Study of Soil Composition From Balkan Endemic Nephropathy Areas, Using a GC-MS Method. *Environmental Engineering and Management Journal*. 2019 November, vol. 18, No. 11, 2455-2463; ISSN: 1582-9596 (print) , 1843-3707 (online). (IF: 1.186)
13. Ghiu A, Schwiebs A, Radeke HH, Avram S, Zupko I, Bor A, Pavel IZ, Dehelean CA, **Oprean C**, Bojin F, Farcaș C, Soica C, Duicu O, Danciu C. A Comprehensive Assessment of Apigenin as an Antiproliferative, Proapoptotic, Antiangiogenic and Immunomodulatory Phytocompound. *Nutrients*. 2019 Apr 16;11(4): E858. doi: 10.3390/nu11040858; ISSN 2072-6643. (IF: 4.546)
14. Danciu C, Muntean D, Alexa E, Farcaș C, **Oprean C**, Zupko I, Bor A, Minda D, Proks M, Buda V, Hancianu M, Cioanca O, Soica C, Popescu S, Dehelean C.A. Phytochemical Characterization and Evaluation of the Antimicrobial, Antiproliferative and Pro-Apoptotic Potential of Ephedra alata Decne. Hydroalcoholic Extract against the MCF-7 Breast Cancer Cell Line. *Molecules*. 2019, 24(1): 13. DOI: 10.3390/molecules24010013; ISSN 1420-3049. (IF: 3.286)

Updated: 16.04. 2024