

PERSONAL INFORMATION

CLAUDIA GEANINA WATZ (born FARCAȘ)



📍 Square Eftimie Murgu, no.2, Faculty of Pharmacy, Timișoara, Timiș, 300041, Romania

✉ Farcas.Claudia@umft.ro

Sex Female | Date of birth 25/06/1991 | Nationality Romanian

WORK EXPERIENCE

October 2016-present

Assistant Professor

University of Medicine and Pharmacy “Victor Babes” Timisoara

Didactic activity, Department of Pharmaceutical Physics, Faculty of Pharmacy

Research activity, Research Center for Pharmaco-Toxicological Evaluations, Faculty of Pharmacy

December 2015-
Octobre 2016

PHARMACIST

S.C. SIEPCOFAR S.R.L, DONA Pharmacies

- provide customers and patients with information regarding prescriptions and OTC medications
- formulate pharmaceutical preparations according to written prescriptions
- responsible for supervising the introduction of invoices acquisition products
- giving active support on increasing customer fidelity programs and resolving inconveniences related to inactive supply

Education and Training

- 2020 - 2021 Doctoral researcher, according to the project POCU/380/6/13/125171 entitled *Academy of Research Entrepreneurs in Medicine - ACAMed*.
University of Medicine and Pharmacy "Iuliu Hatieganu", Cluj-Napoca
- 2016 - 2020 PhD Studies, Field of Pharmacy
University of Medicine and Pharmacy "Iuliu Hatieganu", Cluj-Napoca
- 2017 - 2018 Psychopedagogy classes
Level I (Series Ad No 0017933) and Level II (Series Ad No 0017985)
West University, Timisoara
- 2015 - 2017 Master of Pharmacy (Series MA No 0108171)
Over the Counter medication, food supplements and cosmetics
University of Medicine and Pharmacy "Victor Babes", Timisoara
- 2010 - 2015 Bachelor of Pharmacy (Series C No 0018531)
University of Medicine and Pharmacy "Victor Babes", Timisoara

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Conversation	Oral speech	
English	C1	C1	C1	C1	C1
French	B2	B2	B1	B1	B1

Digital competences

AUTO EVALUATION				
Information processing	Communication	Content creation	Security	Problem solving
Advanced	Advanced	Advanced	Advanced	Advanced

Additional information

Competences In vitro cell cultures, immunocytochemistry, metallic nanoparticle testing, Experience on 3D reconstructed epiderm models for phototoxicity, genotoxicity and irritancy assays. Screened samples: Chemicals, Metallic nanoparticles, pharmaceutical formulations based on nanoparticles and natural compounds

Research projects **Doctoral grant:**
Toxicological evaluation of metallic nanoparticles for improving the bioavailability of some phytocompounds with therapeutic action. University of Medicine and Pharmacy "Iuliu Hațieganu" Cluj-Napoca: PCD, Contract no 1300/23/13.01.2017; 3066/17/01.02.2018; 1531/2/18.01.2019 , Total value = 48 000 RON

Project member:

Innovative nanobiostructures based on ferrimagnetic nanoparticles bioconjugated with cyclodextrins for increasing efficacy and reducing toxicity in therapy of cancer by superparamagnetic hyperthermia. PN-III-P2.1-PED-2019-3067

Betulin and gold nanoparticles formulations for suppressing skin aging: PN-III-P2-2.1-BG-2016-0354

Center for development of practical abilities in the field of medicinal plants: CNFIS-FDI-2018-0159, Contract no 35/16.05.2018 - Safety of medicinal plants products

Certification

Entrepreneurial skills acquired through participation in the target group of the ACAMed project - "Academy of Entrepreneurial Researchers in Medicine". Project financed by the European Social Fund - POCU / 380/6/13/125171

Project manager, program accredited by the National Authority for Qualifications

Applied in vitro toxicology course organized by the European Society of Toxicology In Vitro (ESTIV) and the American Society for Cellular and Computational Toxicology (ASCCT), Bucharest, 14-19 April 2019 – [annex CV](#).

ISI Publications

Claudia Geanina Farcas, Cristina Dehelean, Iulia Andreea Pinzaru, Marius Mioc, Vlad Socoliuc, Elena-Alina Moaca, Stefana Avram, Roxana Ghiulai, Dorina Coricovac, Ioana Pavel, Praveen Kumar Alla, Octavian Marius Cretu, Codruta Soica, Felicia Loghin. Themosensitive Betulinic Acid-Loaded Magnetoliposomes: A Promising Antitumor Potential for Highly Aggressive Human Breast Adenocarcinoma Cells Under Hyperthermic Conditions. *Int J Nanomed.* 2020, 15, p 8175-8200. <http://doi.org/10.2147/IJN.S269630>. IF = 5.112, Q1.

Claudia Geanina Farcas, Ioana Macasoi, Iulia Pinzaru, Marius Chirita, Marius Constantin Chirita Mihaila, Cristina Dehelean, Stefana Avram, Felicia Loghin, Liviu Mocanu, Virgil Rotaru, Adrian Ieta, Aurel Ercuta, Dorina Coricovac. Controlled Synthesis and Characterization of Micrometric Single Crystalline Magnetite With Superparamagnetic Behavior and Cytocompatibility/Cytotoxicity Assessments. *Front. Pharmacol.* 2020, 11:410. doi: 10.3389/fphar.2020.00410. IF = 4.225, Q1.

Claudia Geanina Farcas, Elena Alina Moaca, Razvan Dragoi, Delia Berceanu Vaduva, Iasmina Marcovici, Ciprian Valentin Mihali, Felicia Loghin. Preliminary Results of Betulinic Acid-Loaded Magnetoliposomes - a Potential Approach to Increase Therapeutic Efficacy in Melanoma. *REV.CHIM.(Bucharest)*, 2019, 70, No. 9. IF = 1.755, Q3.

Elena-Alina Moacă#, **Claudia Farcas# (equal contribution)**, Dorina Coricovac, Stefana Avram, Ciprian-Valentin Mihali, George-Andrei Draghici, Felicia Loghin, Cornelia Pacurariu, Cristina Dehelean. Oleic Acid Double Coated Fe₃O₄ Nanoparticles as Anti-Melanoma Compounds with a Complex Mechanism of Activity—In Vitro and In Ovo Assessment. *Journal of Biomedical Nanotechnology*, 2019 Vol. 15 (5), p 893-909; IF = 4.483, Q2.

Dorina Coricovac# , **Claudia Farcas# (equal contribution)**, Cristian Nica, Iulia Pinzaru*, Sebastian Simu, Dana Stoian, Codruta Soica, Maria Proks, Stefana Avram, Dan Navolan, Catalin Dumitru, Ramona Amina Popovici and Cristina Adriana Dehelean. Ethinylestradiol and Levonorgestrel as Active Agents in Normal Skin, and Pathological Conditions Induced by UVB Exposure: In Vitro and In Ovo Assessments. *Int J Mol Sci.* 2018, 19, 3600; doi:10.3390/ijms19113600; IF = 4.556, Q2.

Pinzaru I., Tanase A., Enatescu V., Coricovac D., Bociort F., Marcovici I., **Watz C.**, Vlaia L., Soica C., Dehelean C. Proniosomal Gel for Topical Delivery of Rutin: Preparation, Physicochemical Characterization and In Vitro Toxicological Profile Using 3D Reconstructed Human Epidermis Tissue and 2D Cells. *Antioxidants*, 2021, 10, 85, <https://doi.org/10.3390/antiox10010085>. IF = 5.014, Q1.

Faur A. #, **Watz C. # (# - equal contribution)** Moaca E.-A., Avram S., Borcan F., Pinzaru I., Iftode A., Nicolov M., Popovici R.A., Raica M., Szuhaneck C.A., Dehelean C. Correlations on Phenolic Screening Related to In Vitro and In Ovo Assessment of *Ocimum basilicum* L. Hydro-Alcoholic Extracts Used as Skin Active Ingredient. *Molecules*. 2020, 25, 5442; doi:10.3390/molecules25225442. IF = 3.267, Q2

Szuhaneck C.A., **Watz C.G.* (* - corresponding author)** Avram Ș., Moacă E.-A., Mihali C.V., Popa A., Campan A.A., Nicolov M., Dehelean C.A. Comparative Toxicological In Vitro and In Ovo Screening of Different Orthodontic Implants Currently Used in Dentistry. *Materials* 2020, 13, 5690; doi:10.3390/ma13245690. IF = 3.057, Q2.

Popa A. Dehelean C, Calniceanu H.*, **Watz C. * (* - corresponding author)**, Brad S., Sinescu C. , Marcu O.A., Popa C.S., Avram S., Nicolov M., Szuhaneck C.A. A Custom-Made Orthodontic Mini-Implant—Effect of Insertion Angle and Cortical Bone Thickness on Stress Distribution with a Complex In Vitro and In Vivo Biosafety Profile. *Materials* 2020, 13, 4789; doi:10.3390/ma13214789. IF = 3.057, Q2.

Elena-Alina Moacă# , **Claudia Farcaș# (equal contribution)**, Alexandra Ghițu, Dorina Coricovac , Ramona Popovici, Nela-Loredana Cărăba-Meiță, Florina Ardelean, Diana Simona Antal, Cristina Dehelean , and Ștefana Avram. A Comparative Study of *Melissa officinalis* Leaves and Stems Ethanollic Extracts in terms of Antioxidant, Cytotoxic, and Antiproliferative Potential. *Hindawi Evidence-Based Complementary and Alternative Medicine*. 2018, Article ID 7860456, <https://doi.org/10.1155/2018/7860456>; IF = 1.984, Q2.

Ghițu A, Schwiebs A, Radeke HH, Avram S, Zupko I, Bor A, Pavel IZ, Dehelean CA, Oprean C, Bojin F, **Farcas 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). pii: E858. doi: 10.3390/nu11040858; IF = 4.171, Q1.

Ramona Fecker, Valentina Buda, Ersilia Alexa, Ștefana Avram, Ioana Zinuca Pavel, Delia Muntean, Ileana Cocan, **Claudia Watz**, Daliana Minda, Cristina Adriana Dehelean, Codruta Soica, Corina Danciu. Phytochemical and Biological Screening of *Oenothera Biennis* L. Hydroalcoholic Extract. *Biomolecules* 2020, 10, 818; doi:10.3390/biom10060818, IF = 4.082, Q2.

Ana-Maria Putz , Catalin Ianași, Zoltán Dudás*, Dorina Coricovac, **Claudia (Farcas) Watz**, Adél Len, László Almásy, Liviu Sacarescu and Cristina Dehelean. SiO₂-PVA-Fe(acac)₃ Hybrid Based Superparamagnetic Nanocomposites for Nanomedicine: Morpho-textural Evaluation and In Vitro Cytotoxicity Assay. *Molecules*. 2020, 25, 653; doi:10.3390/molecules25030653; IF = 3.267, Q2.

Danciu Corina, Muntean Delia, Alexa Ersilia, **Farcas Claudia**, Oprean Camelia, Zupko Istvan, Bor Andrea, Minda Daliana, Proks Maria, Buda Valentina, Hancianu Monica, Cioanca Oana, Soica Codruta, Popescu Sofia and Dehelean Cristina Adriana. 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, 13; doi:10.3390/molecules24010013; IF = 3.267, Q2.

Roxana Ghiulai, Stefana Avram, Dana Stoian, Ioana Zinuca Pavel, Dorina Coricovac, Camelia Oprean, Laurian Vlase, **Claudia Farcas**, Marius Mioc, Daliana Minda, Andrei Motoc, Camelia Szuhaneck, Corina Danciu, Codruta Soica, Laurentiu Sima. Lemon Balm Extracts Prevent Breast Cancer Progression In Vitro and In Ovo on Chorioallantoic Membrane Assay. *Hindawi Evidence-Based Complementary and Alternative Medicine*, Volume 2020, Article ID 6489159, <https://doi.org/10.1155/2020/6489159>, IF = 1.813.

Marius Mioc#, Ioana Zinuca Pavel#, Roxana Ghiulai, Dorina E. Coricovac, **Claudia Farcas**, Ciprian-Valentin Mihali, Camelia Oprean, Vlad Serafim, Ramona A. Popovici*, Cristina A. Dehelean, Michael I. Shtilman, Aristidis M. Tsatsakis and Codruța Șoica. The Cytotoxic Effects of Betulin-Conjugated Gold Nanoparticles as Stable Formulations in Normal and Melanoma Cells. *Front Pharmacol*. 2018, 9:429. doi: 10.3389/fphar.2018.00429; IF = 3.845, Q1.

Nicolov M, Ghiulai RM, Voicu M, Mioc M, Duse AO, Roman R, Ambrus R, Zupko I, Moaca EA, Coricovac DE, **Farcas C**, Racoviceanu RM, Danciu C, Dehelean C-A and Soica C. Cocrystal Formation of Betulinic Acid and Ascorbic Acid: Synthesis, Physico-Chemical Assessment, Antioxidant, and Antiproliferative Activity. *Front Chem*. 2019, 7:92. doi: 10.3389/fchem.2019.00092; IF = 3.782, Q2.

Popovici RA, Vaduva D, Pinzaru I, Dehelean CA, **Farcas CG**, Coricovac D, Danciu C, Popescu I, Alexa E, Lazureanu V, Stanca HT. A comparative study on the biological activity of essential oil and total hydroalcoholic extract of *Satureja hortensis* L. *Exp Ther Med*. 2019 Aug;18(2):932-942. doi: 10.3892/etm.2019.7635; IF = 1.448

Denisa Circioban, Adriana Ledeti, Gabriela Vlase, Dorina Coricovac, Alina Moaca, **Claudia Farcas**, Titus Vlase, Ionut Ledeti, Cristina Dehelean. Guest–host interactions and complex formation for artemisinin with cyclodextrins: instrumental analysis and evaluation of biological activity. *J Therm Anal Calorim*. 2018, DOI <https://doi.org/10.1007/s10973-018-7411-8>; IF = 2.471

Denisa Circioban, Adriana Ledeti, Gabriela Vlase, Alina Moaca, Ionut Ledeti, **Claudia Farcas**, Titus Vlase & Cristina Dehelean. Thermal degradation, kinetic analysis and evaluation of biological activity on human melanoma for artemisinin. *J Therm Anal Calorim*. 2018, DOI 10.1007/s10973-018-7497-z; IF = 2.471

Zsolt Gyori, Mircea Berceanu, Adelina Cheveresan, **Claudia Farcas**, Tiberiu Bratu, Zorin Crainiceanu. Melanin And Behaviour Of Melanoma-Related Cell Lines In The Presence Of Ultraviolet B Type Radiation. Rev Chim (Bucharest). 2019, 70(7), 2398-2400; IF = 1.755, Q3.

Octavia Iulia Balean, Atena Galuscan, Daniela Jumanca, **Claudia Farcas**, Dorina Coricovac, Doina Chioran, Voichita Lazureanu, Angela Codruta Podariu. In Vitro Effect Of Bisphosphonates On Squamous Cell Carcinoma From Tongue Tissue. Rev Chim (Bucharest). 2019, 70(2), 663-666; IF = 1.755, Q3.

Crinela Utescu, Delia Berceanu-Vaduva, Constantin Tudor Luca, **Claudia Farcas**, Victor Dumitrascu, Matilda Radulescu. Preliminary in vitro Evaluation of a Semisynthetic Oestrogen Polymer-based Formulation. Materiale Plastice. 2019, 56(1), 291-293; IF = 1.517, Q3

Ioana Zinuca Pavel, Oana Andrada Iftode, Iulia Pinzaru, Dorina Coricovac, Alina Moaca, **Claudia Farcas**, Sebastian Claudiu Simu, Codruta Soica, Cristina Dehelean, Andrei Motoc. Skin Specific Cells and UVB Damage. Rev Chim (Bucharest). 2017, 68(6), 1229-1233; IF = 1.412, Q3

Conferences

C.G. Farcas, E.A. Moacă, D. Coricovac, C. Dehelean, F. Loghin, In vitro antiproliferative effects of Fe₃O₄_BA loaded liposomes, 54th Congress of the European Societies of Toxicology (EUROTOX) Brussels, Belgium, 2 – 5 Septembrie, 2018, DOI: 10.1016/j.toxlet.2018.06.646, Toxicology Letters, 295, pp. S113, Supplement 1, Abstract P06-26, 2018 (IF = 3.499)

E.A. Moacă#, **C. Farcaș# (equal contribution)**, D. Coricovac, F. Loghin, C. Dehelean, C. Păcurariu, Citric Acid Coated Magnetic Iron Oxide Nanoparticles (Fe₃O₄): Synthesis, Characterization and Applications, The 5th Edition of Nanotech France 2019, International Conference and Exhibition, 26 – 28 June 2019 Palais des Congrès d'Issy, Issy-Les-Moulineaux, Paris, France, Book of Abstracts pp. 157; Organizer: Setcor Conferences and Exhibitions, www.setcor.org 2019 (poster)
<http://www.setcor.org/userfiles/files/2019/NanotechFrance2019/Nanotech-France-2019-Conference-Program.pdf>

Pinzaru I.A., Coricovac D.E., **Watz C.**, Liga S., Dehelean C.A. Rutin and its fatty acid esters in a biocompatible nanoform toxicological safety and photoprotection/phototoxicity assessments on 2D skin cells and 3D reconstructed human tissue model. Naunyn-Schmiedebergs Archives Of Pharmacology, Volume: 393, Issue: SUPPL 1, Pages: 56-57, Supplement: 1, Special Issue: SI, Meeting Abstract: P118, Published: FEB 2020, Document Type: Meeting Abstract

Petean, C.D., Pinzaru, I.A., Iftode, O.A., Coricovac, D. E., **Watz, C.**, Dehelean, C. A. Liposomes loaded with soy isoflavones/soy extract as skin depigmenting or protective agents. Naunyn-Schmiedebergs Archives Of Pharmacology, Volume: 393, Issue: SUPPL 1, Pages: 90-90, Supplement: 1, Special Issue: SI, Meeting Abstract: P250, Published: FEB 2020, Document Type: Meeting Abstract

M. Mioc, D. Coricovac, C. Trandafirescu, R. Ghiulai, I. Pavel, C. Danciu, I. Pinzaru, A. Moaca, **C. Farcaș**, R.A. Popovici, C. Dehelean, R. Ambrus, C. Soica, Comparative assessment of solid and hollow gold nanoparticles as antitumor nanoformulations, 2nd International Caparica Christmas Conference on Translational Chemistry, 4–7 December 2017, Proceedings Book, Caparica, Portugal, 2017 (oral presentation)

M. Nicolov, C. Soica, R. Roman, R. Ambrus, I. Zupko, E.A. Moacă, I. Ledeti, D. Coricovac, **C. Farcaș**, C.A. Dehelean, Analysis of monosolvates of betulinic acid with vitamin C, International Conference of Medicinal Plants Research (ICMPR-2018), 26 March 2018, Warsaw, Poland, Book of Abstracts pp. 19, Ref. code ICMPR-2018-22-036, Published by: APCO Practical Education and Research Organization, Warsaw, Poland, 2018 (poster)

A. Ghițu, E.A. Moacă, **C. Farcaș**, D. Coricovac, C. Dehelean, Ș. Avram, C. Danciu, FTIR characterization and cytotoxic effects of Melissa officinalis L. Ethanolic extracts against MDA-MB 231 breast cancer cell line, Days of the „Victor Babeș” University of Medicine and Pharmacy Timisoara, 2018 (poster)

ISBN Abstracts

Claudia Geanina Farcaș, Cristina Dehelean, Felicia Loghin. Nanotechnology, a controversial topic for anticancer approach through natural compounds. Summary manifestations within the project CNFIS-FDI-2018-0159 - Safety of medicinal plants products. Editura “Victor Babeș” Timișoara, 2018. ISBN 978-606-786-104-4

Daiana Szvoren, Iasmina Marcovici, Dorina Coricovac, Iulia Pînzaru, **Claudia Farcaș**, Cristina Dehelean. In vitro antiproliferative activity of Salvia officinalis L. extracts. Summary manifestations within the project CNFIS-FDI-2018-0159 - Safety of medicinal plants products. Editura “Victor Babeș” Timișoara, 2018. ISBN 978-606-786-104-4

Claudia Geanina Farcaș, Mirela Nicolov, Alina Moacă, Cristina Dehelean. The antioxidant activity of betulinic acid with ascorbic acid crystals. Scientific manifestations. Phytocompounds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity. Editors Diana S Antal, Evelyne Ollivier. Abstracts of the international workshop of the Romanian-French bilateral project PN II-CT-789/30.06.2014. Editura “Victor Babeș” Timișoara, 2016. ISBN 978-606-786-024-5.



This is to certify that Claudia Farcaş has participated in the 'Applied *in vitro* toxicology course' jointly organized by the European Society of Toxicology *In Vitro* (ESTIV) and the American Society for Cellular and Computational Toxicology (ASCCT) from 14 to 19 April 2019 in Bucharest-Romania.

This course consisted of 18 1-hour lectures covering subjects pertinent to regulatory, screening and investigative *in vitro* toxicology, a 5-hour group exercise and a 3-hour laboratory practical.

**Prof. Dr. Mathieu Vinken,
ESTIV President**



**Dr. Gertrude-Emilia Costin,
ASCCT Representative**



**Dr. Ines Dima,
Local Organizer**

