

**PERSONAL  
INFORMATION****CLAUDIA GEANINA WATZ (born FARCAȘ)**

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300041, Romania

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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

2022 - present	Resident Pharmacist (Major: General Pharmacy) The County Emergency Clinical Hospital “Pius Brînzeu” Timișoara
2016 - 2020	PhD, Field of Pharmacy (Series J No 0045697) Graduated with honors: <i>Summa Cum Laude</i> University of Medicine and Pharmacy “Iuliu Hatieganu”, Cluj-Napoca
2020	Project Manager Diploma, COR 242101 (Series M No 00376129) Program accredited by the National Authority of Qualifications (ANC) SC Trainifique SRL, Bucharest, Romania
2017 - 2018	Psychopedagogy Program Level I (Series Ad No 0017933) and Level II (Series Ad No 0017985) West University, Timisoara, Romania
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	B2	B1

## Digital competences

AUTO EVALUATION				
Information processing	Communi cation	Content creation	Security	Problem solving
Advanced	Advanced	Advanced	Advanced	Advanced

## Additional information

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### Competences

In vitro cell cultures, immunocytochemistry, nanoparticle-based formulations, metallic nanoparticles evaluations  
Experience on 3D reconstructed epiderm models for phototoxicity, genotoxicity and irritancy assays. In vitro evaluations of Chemicals, Metallic nanoparticles, pharmaceutical formulations based on nanoparticles and natural compounds

### Research projects

#### **Doctoral projects:**

Doctoral grant - Toxicological evaluation of metallic nanoparticles for improving the bioavailability of phytochemicals 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; 2464/1/17.01.2020. Total value = 48 000 RON (approx. 10 000 euro)

Doctoral bursary: 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 Hațieganu", Cluj-Napoca

#### **Member - researcher in National Projects:**

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

Centre 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

### Certifications

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 of Qualifications, COR Code 242101 (Series M, No 00376129)

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.

### Awards

PN-III-P1-1.1-PRECISI-2021-58870: Thermosensitive Betulinic Acid-Loaded Magnetoliposomes: A Promising Antitumor Potential for Highly Aggressive Human Breast Adenocarcinoma Cells Under Hyperthermic Conditions

PN-III-P1-1.1-PRECISI-2021-60237: Solid Polymeric Nanoparticles of Albendazole: Synthesis, Physico-Chemical Characterization and Biological Activity

PN-III-P1-1.1-PRECISI-2021-60626: Comparative Toxicological In Vitro and In Ovo Screening of Different Orthodontic Implants Currently Used in Dentistry

PN-III-P1-1.1-PRECISI-2021-62043: 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

PN-III-P1-1.1-PRECISI-2020-45397: Phytochemical and Biological Screening of *Oenothera biennis* L. Hydroalcoholic Extract

PN-III-P1-1.1-PRECISI-2020-45405: SiO<sub>2</sub>-PVA-Fe(acac)<sub>3</sub> Hybrid Based Superparamagnetic Nanocomposites for Nanomedicine: Morpho-textural Evaluation and In Vitro Cytotoxicity Assay

PN-III-P1-1.1-PRECISI-2020-47247: Controlled Synthesis and Characterization of Micrometric Single Crystalline Magnetite With Superparamagnetic Behavior and Cytocompatibility/Cytotoxicity Assessments

PN-III-P1-1.1-PRECISI-2019-35343: Cocrystal Formation of Betulinic Acid and Ascorbic Acid: Synthesis, Physico-Chemical Assessment, Antioxidant, and Antiproliferative Activity

## 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 = 6.4, 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 = 5.81, Q1.

Elena-Alina Moaca#, Claudia-Geanina Watz# (equal contribution), Vlad Socoliuc, Roxana Racoviceanu, Cornelia Pacurariu, Robert Ianoş, Simona Cînta-Pînzaru, Lucian Barbu Tudoran, Fran Nekvapil, Stela Iurciuc, Codruța Șoica, Cristina-Adriana Dehelean. Biocompatible Magnetic Colloidal Suspension Used as a Tool for Localized Hyperthermia in Human Breast Adenocarcinoma Cells: Physicochemical Analysis and Complex In Vitro Biological Profile. *Nanomaterials* 2021, 11, 1189. <https://doi.org/10.3390/nano11051189>; IF = 5.076, Q1.

Elena-Alina Moacă#, Claudia Farcaș# (equal contribution), Dorina Coricovac, Stefana Avram, Ciprian-Valentin Mihali, George-Andrei Draghici, Felicia Loghin, Cornelia Pacurariu, Cristina Dehelean. Oleic Acid Double Coated Fe<sub>3</sub>O<sub>4</sub> 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.

Daniel Pop, Roxana Buzatu, Elena-Alina Moaca, Claudia Geanina Watz\* (\* corresponding author) Simona Cinta-Pinzaru, Lucian Barbu Tudoran, Fran Nekvapil, Stefana Avram, Cristina Adriana Dehelean, Marius Octavian Cretu, Mirela Nicolov, Camelia Szuhaneck, Anca Jivanescu. Development and Characterization of Fe<sub>3</sub>O<sub>4</sub>@Carbon Nanoparticles and Their Biological Screening Related to Oral Administration. *Materials*, 2021, 14, 3556. <https://doi.org/10.3390/ma14133556>; IF = 3.623, Q1.

Ramona Daniela Pârvanescu (Pana), Claudia-Geanina Watz# (# - equal contribution), Elena-Alina Moaca, Lavinia Vlaia, Iasmina Marcovici, Ioana Gabriela Macașoi, Florin Borcan, Ioana Olariu, Georgeta Coneac, George-Andrei Draghici, Zorin Crainiceanu, Daniela Flondor (Ionescu), Alexandra Enache, Cristina Adriana Dehelean. Oleogel Formulations for the Topical Delivery of Betulin and Lupeol in Skin Injuries—Preparation, Physicochemical Characterization, and Pharmacotoxicological Evaluation. *Molecules* 2021, 26, 4174. <https://doi.org/10.3390/molecules26144174>; IF = 4.412, Q2.

Mirela Nicolov, Mioara Cocora, Valentina Buda, Corina Danciu, Adina Octavia Duse, Claudia Watz\* (\* - corresponding author), Florin Borcan. Hydrosoluble and Liposoluble Vitamins: New Perspectives through ADMET Analysis. *Medicina* 2021, 57, 1204. <https://doi.org/10.3390/medicina57111204> IF = 2.430, Q2.

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.

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 = 6.313, Q1.

## International Conferences

Claudia Geanina Watz, Elena-Alina Moacă, Ioana Zinuca Pavel, Lenuța Maria Șuta, Mirela Nicolov, Felicia Loghin, Cristina Adriana Dehelean. Iron Oxide Nanoparticles: An Advanced Screening Employing Three-Dimensional (3D) Reconstructed Human Epidermal Model. 18th International Conference on Nanosciences & Nanotechnologies (NN21). 6-9 July 2021, Thessaloniki, Greece.

C.G. Farcas, E.A. Moacă, D. Coricovac, C. Dehelean, F. Loghin, In vitro antiproliferative effects of Fe<sub>3</sub>O<sub>4</sub>\_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.G. Watz, L. Barbu-Tudoran, R. Racoviceanu, G.A. Drăghici, Daniel Pop, C.A. Dehelean. Green synthesis of  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles using *Artemisia absinthium* L. aqueous leaf and stems extracts and their biological assessment on healthy and melanoma cell lines. 18th International Conference on Nanosciences & Nanotechnologies (NN21). 6-9 July 2021, Thessaloniki, Greece

E.A. Moacă#, C. Farcaș# (equal contribution), D. Coricovac, F. Loghin, C. Dehelean, C. Păcurariu, Citric Acid Coated Magnetic Iron Oxide Nanoparticles (Fe<sub>3</sub>O<sub>4</sub>): 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](http://www.setcor.org) 2019 (poster)  
<http://www.setcor.org/userfiles/files/2019/NanotechFrance2019/Nanotech-France-2019-Conference-Program.pdf>