



Iasmina Marcovici

✉ Email address: iasmina.marcovici@umft.ro

📍 Home: (Romania)

ABOUT ME

Pharmacist with a PhD in Pharmacy and experience in academic research and teaching.

WORK EXPERIENCE

🏢 **"Victor Babes" University of Medicine and Pharmacy Timisoara, Faculty of Pharmacy** – Timisoara, Romania

Lecturer

[03/2025 – Current]

🏢 **"Victor Babes" University of Medicine and Pharmacy Timisoara, Faculty of Pharmacy** – Timisoara, Romania

Assistant Professor

[09/2021 – 03/2025]

EDUCATION AND TRAINING

PhD in Medical Sciences (Field of Pharmacy)

"Victor Babes" University of Medicine and Pharmacy Timisoara, Medicine-Pharmacy Doctoral School [10/2020 – 10/2024]

Address: Eftimie Murgu Square, No. 2, Timisoara (Romania) | Website: <https://www.umft.ro/>

Teacher Training Module - Level II

Department of Teacher Training (D.P.P.D.), West University of Timisoara [01/07/2022]

Address: Vasile Pârvan Bd., No. 4, Timisoara (Romania) | Website: <https://dppd.uvt.ro/>

Teacher Training Module - Level I

Department of Teacher Training (D.P.P.D.), West University of Timisoara [17/02/2022]

Address: Vasile Pârvan Bd., No. 4, Timisoara (Romania) | Website: <https://dppd.uvt.ro/>

Masters Degree in OTC Drugs, Food Supplements and Cosmetics

"Victor Babes" University of Medicine and Pharmacy, Faculty of Pharmacy [2020 – 2022]

Address: Eftimie Murgu Square, No. 2, Timisoara (Romania) | Website: <https://www.umft.ro/>

Bachelor of Pharmacy

"Victor Babes" University of Medicine and Pharmacy, Faculty of Pharmacy [2015 – 2020]

Address: Eftimie Murgu Square, No. 2, Timisoara (Romania) | Website: <https://www.umft.ro/>

PUBLICATIONS

Articles

1. **Marcovici I**, Chioibas R, Zupko I, et al. Preclinical pharmaco-toxicological screening of biomimetic melanin-like nanoparticles as a potential therapeutic strategy for cutaneous melanoma. *Front Pharmacol.* 2025;16:1487854. doi:10.3389/fphar.2025.1487854.
2. Smeu A, **Marcovici I**, Dehelean CA, Dumitrel SI, Borza C, Lighezan R. Flavonoids and Flavonoid-Based Nanopharmaceuticals as Promising Therapeutic Strategies for Colorectal Cancer-An Updated Literature Review. *Pharmaceuticals (Basel).* 2025;18(2):231. doi:10.3390/ph18020231.

3. Dehelean C, Alexa E, **Marcovici I**, et al. Synthesis, characterization, and in vitro-in ovo toxicological screening of silibinin fatty acids conjugates as prodrugs with potential biomedical applications. *Biomol Biomed*. 2024. doi:10.17305/bb.2024.10600.
4. **Marcovici I**, Vlad D, Buzatu R, Popovici RA, Cosoroaba RM, Chioibas R, Geamantan A, Dehelean C. Rutin Linoleate Triggers Oxidative Stress-Mediated Cytoplasmic Vacuolation in Non-Small Cell Lung Cancer Cells. *Life*. 2024; 14(2):215. doi:10.3390/life14020215.
5. Dehelean CA, Coricovac D, Pinzaru I, **Marcovici I** et al. Rutin bioconjugates as potential nutraceutical prodrugs: An in vitro and in ovo toxicological screening. *Front Pharmacol*. 2022;13:1000608. doi:10.3389/fphar.2022.1000608.
6. **Marcovici I**, Coricovac D, Pinzaru I, et al. Melanin and Melanin-Functionalized Nanoparticles as Promising Tools in Cancer Research-A Review. *Cancers*. 2022;14(7):1838. doi:10.3390/cancers14071838.
7. Dehelean CA, **Marcovici I**, Soica C, et al. Plant-Derived Anticancer Compounds as New Perspectives in Drug Discovery and Alternative Therapy. *Molecules*. 2021;26(4):1109. doi:10.3390/molecules26041109.
8. Pinzaru I, Chioibas R, **Marcovici I**, et al. Rutin Exerts Cytotoxic and Senescence-Inducing Properties in Human Melanoma Cells. *Toxics*. 2021;9(9):226. doi:10.3390/toxics9090226.
9. Pinzaru I, Tanase A, Enatescu V, Coricovac D, Bociort F, **Marcovici I**, et al. Proniosomal Gel for Topical Delivery of Rutin: Preparation, Physicochemical Characterization and In Vitro Toxicological Profile Using Reconstructed Human Epidermis Tissue and 2D Cells. *Antioxidants*. 2021; 10(1):85. doi: 10.3390/molecules26041109. doi: 10.3390/antiox10010085.
10. Pinzaru I, Sarau C, Coricovac D, **Marcovici I**, et al. Silver Nanocolloids Loaded with Betulinic Acid with Enhanced Antitumor Potential: Physicochemical Characterization and In Vitro Evaluation. *Nanomaterials*. 2021; 11(1):152. doi:10.3390/nano11010152.

Conference Abstracts

1. **Iasmina Marcovici**, Iulia Pinzaru, Andreea Geamantan, Cristina Dehelean, P01-74: Bioinspired polydopamine nanoparticles trigger apoptosis in HCT-116 colorectal carcinoma cells, *Toxicology Letters*, Volume 399S2, 2024, Page S100, ISSN 0378-4274.
2. **Iasmina Marcovici**, Iulia Pinzaru, Cristina Dehelean. BETULINIC ACID GAMMACYCLODEXTRIN SUPRAMOLECULAR SYSTEM – AN IN VITRO ASSESSMENT ON 2D LUNG CELLS AND 3D RESPIRATORY TISSUE MODEL (2024). 22nd International Congress ESTIV Abstract Book. Abstract #318, pag. 138.
3. **Iasmina Marcovici**, Iulia Pinzaru, Cristina Dehelean. Studiu in vitro al nanoparticulelor din melanină ca nouă opțiune pentru tratamentul melanomului cutanat (2023). *Farmacia azi: de la tradiție la interdisciplinaritate și inteligență artificială* (Congresul Național de Farmacie). ISBN 978-606-075-203-5. pag. 278.
4. **Iasmina Marcovici**, Cristina Dehelean, P03-27: The Good Side of Pigmentation in Cutaneous Melanoma – Investigation of Melanin as Anti-Cancer Agent, *Toxicology Letters*, Volume 384, Supplement 1, 2023, Page S96, ISSN 0378-4274.
5. **Iasmina Marcovici**, Iulia Pinzaru, Dorina Coricovac, Ioana Macasoii, Cristina Dehelean. Melanin Nanoparticles as Novel Approach in Malignant Melanoma Treatment – An In Vitro Assessment. *Arch Pharmacol*. 2023;396(Suppl 1):1-76. P143.
6. Dorina Coricovac, Iulia Pinzaru, **Iasmina Marcovici**, et al. Betulinic acid formulated as proniosomal gel - a promising candidate for skin cancer management. *Toxicology Letters* 368S1 (2022) S84-S283, pp. S195.

PROJECTS

[2023]

Augmentarea multifuncționalității bazei de practică în domeniul produselor vegetale medicinale prin inovare interdisciplinară cu transpunere în sfera digitală (CNFIS-FDI-2023-F-0448) Project member

[2021 – 2022]

Delivery to the dermocosmetic market of a modern topical formulation with betulinic acid encapsulated in proniosomes – BAPRONIO (PN-III-P1-1.1-TE-2019-2134) Project member

[2021]

Dezvoltarea bazei de practică în domeniul plantelor medicinale a UMF Victor Babeș Timișoara (CNFIS-FDI-2021-0498) Project member

EDITORIAL ACTIVITY

[20/04/2026]

Guest Editor - Research Topic "Innovative Strategies for the Optimization of Phytochemicals as Next-Generation Chemotherapeutics" - Journal Frontiers in Pharmacology

[31/08/2025]

Guest Editor - Special Issue "Innovative Drug Development: Balancing Efficacy and Toxicity in Novel Pharmaceuticals" - Journal Life (MDPI)

LANGUAGE SKILLS

Mother tongue(s): Romanian | Serbian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Microsoft Office / Microsoft Excel / Microsoft Word / Microsoft Powerpoint / Graphpad Prism / BioRender (software to create professional scientific figures) / ImageJ Fiji (Basic user) / Gen5 for Microplate Reading & Data Analysis Softwer

COURSES

[11/09/2023 – 22/09/2023]

9th Laboratory Animal Science European Union Functions Course

Write here the description...

[02/10/2022]

Writing in the Sciences by Stanford University (Coursera)

COMMUNICATION AND INTERPERSONAL SKILLS

The main communication and interpersonal skills are:

- effective oral and written communication skills;
- ability to assimilate new information and practical skills;
- ability of self-evaluation and self-improvement;
- team-work and individual-work skills.

ORGANISATIONAL SKILLS

The main organisational skills are:

- meticulous organisation and time-management;
- goal setting ability, prioritization skills;
- decision making, detail- and deadline-oriented;
- flexibility and adaptability.