



Andreea Smeu

Date of birth: 17/02/1999 | **Place of birth:** Romania | **Citizenship:** Romanian | **Gender:** Female

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Address: Eftimie Murgu Square 2, Timișoara, 300041, Romania (Work)

PROFESSIONAL EXPERIENCE

- **Assistant Professor – VICTOR BABEȘ UNIVERSITY OF MEDICINE AND PHARMACY – 2024 – present**

Address: Eftimie Murgu Square, No. 2, Timisoara, Romania

University Clinic of Toxicology, Pharmaceutical Industry, Management, Legislation, and Dermopharmacy

- **Pharmacy Resident – "PIUS BRÎNZEU" COUNTY EMERGENCY CLINICAL HOSPITAL TIMIȘOARA – 2023 – present**

Address: 156 Liviu Rebreanu Boulevard, Timișoara 300723

Clinical Pharmacy

EDUCATION AND PROFESSIONAL DEVELOPMENT

2025 – present

- **PSYCHOPEDAGOGICAL MODULE - LEVEL I AND LEVEL II Department for Teacher Training, West University of Timișoara**

2024 – present

- **Master's student - PHARMACOVIGILANCE AND MONITORING OF CLINICAL TRIALS Victor Babeș University of Medicine and Pharmacy, Timișoara, Faculty of Pharmacy**

2023 – present

- **DOCTORAL STUDIES - FIELD OF PHARMACY Victor Babeș University of Medicine and Pharmacy, Timișoara**

2018 – 2023

- **BACHELOR'S DEGREE - PHARMACIST Victor Babeș University of Medicine and Pharmacy, Timișoara, Faculty of Pharmacy**

LANGUAGE SKILLS

Native language(s): ROMANIAN

Other language(s): ENGLISH – B2; FRENCH – B2

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

PUBLICATIONS

Vicaș LG, Marian NA, Ali DH, Duteanu N, Svera P, Dehelean C, Vlase AM, Frenț OD, Dejeu IL, Negrean RA, Oros RM, Fritea L, Smeu A, Mureșan ME. Potentiation of the Pharmacological Effects of an *Aristolochia clematitis* L. Extract by Loading into Liposomes Facilitating Release to HaCaT Cells. *Pharmaceutics*. 2026 Jan 10;18(1):89. doi: 10.3390/pharmaceutics18010089. PMID: 41599197; PMCID: PMC12845346.

Neagu MC, Boia ES, Andrică PA, Cristea AM, Sașco D, Bob F, Smeu A, Anton A, Moacă AE. Synthesis, characterisation and a preliminary in vitro evaluation of a magnetic nanoformulation on kidney Vero cell line. *Farmacia*. 2025;73(6):1493-1505. doi:10.31925/farmacia.2025.6.15.

Talpos, S.; Chioran, D.; Alexandru, G.C.; Dinu, Ș.; Coricovac, E.-D.; Smeu, A.; Ali, D.H.; Szuhaneck, C.; Popa, M. Silibinin Triggers Mitochondrial Apoptosis and Declines Clonogenic Potential in Detroit 562 Human Pharyngeal Carcinoma Cells. *Medicina* 2025, 61, 2197. <https://doi.org/10.3390/medicina61122197>

Smeu, A.; Minda, D.; Boru, C.; Vlaia, L.; Vlaia, V.; Dehelean, C.A.; Liga, S.; Puenea, G.; Muntean, D.L. Betulinic Acid-Loaded Oleogel as a Novel Pharmaceutical Formulation for Potential Cutaneous Applications: Development, Characterization, and Biosafety Profile. *Life* 2025, 15, 954. <https://doi.org/10.3390/life15060954>

Cristea, A.M.; Smeu, A.; Cimpeanu, I.-A.; Iftode, A.; Liga, S.; Tchiakpe-Antal, D.-S.; Vlad, D.; Dehelean, C.A.; Iliescu, D. Biological Effects of Rosaceae Species in Skin Disorders—An Up-To-Date Overview. *Plants* 2025, 14, 1605. <https://doi.org/10.3390/plants14111605>

Dan C, Almăjan-Guță B, Jović AA, Dumitrel SI, Predescu IA, Tchiakpe-Antal DS, Smeu A, Jijie R, Ioniță I, Dragomir AC, Ardelean S, Dărăban A. Ethanolic extract of *Juniperus communis* exhibits antimicrobial activity and selective cytotoxicity in PANC-1 cancer cells compared to HepaRG hepatocytes. *Farmacia*. 2025;73(2):362-375. doi:10.31925/farmacia.2025.2.11.

Roman A, Boru C, Iftode A, Smeu A, Boța M, Vlaia L, Sașco D, Nicolov M, Iliescu D. Genistein–quercetin combinatorial treatment yields enhanced anticancer activity in A-431 and A-375 human skin cancer cells. *Farmacia*. 2025;73(3):579-590. doi:10.31925/farmacia.2025.3.6

Grosu (Dumitrescu) C, Boța M, Bonțe D, Toma C, Smeu A, Vlaia L, Boru C. Myricetin-fisetin combinatorial treatment as a potential strategy for cutaneous melanoma – an in vitro study. *Farmacia*. 2025;73(2):477-485. doi:10.31925/farmacia.2025.2.21.

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. *Pharmaceutics (Basel)*. 2025 Feb 8;18(2):231. doi: 10.3390/ph18020231.

Marcovici, I., Chioibas, R., Zupko, I., Pinzaru, I., Moaca, A., Ledeti, A., Geamantan, A., Predescu, I., & Dehelean, C. A. (2025). Preclinical pharmaco-toxicological screening of biomimetic melanin-like nanoparticles as a potential therapeutic strategy for cutaneous melanoma. *Frontiers in Pharmacology*, 16, 1487854. <https://doi.org/10.3389/fphar.2025.1487854>

Dănilă AI, Romînu M, Munteanu K, Moacă EA, Geamantan-Sîrbu A, Olariu I, Marian D, Olariu T, Talpoș-Niculescu IC, Cosoroabă RM, Popovici R, Dinu Ș. Development of Solid Nanosystem for Delivery of Chlorhexidine with Increased Antimicrobial Activity and Decreased Cytotoxicity: Characterization and In Vitro and In Ovo Toxicological Screening. *Molecules*. 2025 Jan 3;30(1):162. doi: 10.3390/molecules30010162.

Roman, A.; Smeu, A.; Lascu, A.; Dehelean, C.A.; Predescu, I.-A.; Motoc, A.; Borza, C.; Draghici, G.A.; Trandafirescu, C.M.; Anton, A.; et al. Quercetin Enhances 5-Fluorouracil-Driven Cytotoxicity Dose-Dependently in A375 Human Melanoma Cells. *Life* 2024, 14, 1685. <https://doi.org/10.3390/life14121685>

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.

Iftode C., Olaru I., Chioran D., Coricovac D., Geamantan A., Borza C., Ursoniu S., Ardelean S. NON-STEROIDAL ANTI-INFLAMMATORY DRUGS (NSAIDS) AS REPURPOSED ANTICANCER DRUGS IN SKIN CANCER. *FARMACIA*, 2024, Vol. 72, 1

Moise G., Geamantan A., Vlad C, Vlad D, Dumitrescu C , Sima L. Quercetin enhances the anti-tumor activity of Doxorubicin in IMR-32 Neuroblastoma Cells. *FARMACIA*, 2024, Vol. 72, 4

Iftode C, Minda D, Draghici G, Geamantan A, Ursoniu S, Enatescu I. Aspirin–Fisetin Combinatorial Treatment Exerts Cytotoxic and Anti-Migratory Activities in A375 Malignant Melanoma Cells. *Medicina*. 2024; 60(7):1125.

Dinu S, Matichescu A, Buzatu R, Marcovici I, Geamantan-Sirbu A, Semenescu AD, Bratu RC, Bratu D-C. Insights into the Cytotoxicity and Irritant Potential of Chlorhexidine Digluconate: An In Vitro and In Ovo Safety Screening. *Dentistry Journal*. <https://doi.org/10.3390/dj12070221>

Dinu, S; Daniel, ON ; Matichescu, A ; Nicoleta, ZI ; Szuhaneck, C ; Geamantan, A ; Semenescu, AD; Anton, A ; Buzatu, R. IN VITRO BIOCOMPATIBILITY AND IN OVO IRRITANT POTENTIAL SCREENING OF TWO CLEAR ALIGNERS WITH ORTHODONTIC APPLICATIONS. *FARMACIA*, 2024, Vol. 72, 3

Geamantan-Sirbu, Andreea, Alexandra Semenescu, Alina Moacă, Razvan Susan, Robert Jijie, and Cristian Vlad. 2024. “Phytochemical Screening and Preliminary Biological in Vitro Assessment of *Camellia Sinensis* L. Ethanolic Extract”. *The Annals of the University Dunarea De Jos of Galati. Fascicle VI - Food Technology* 48 (1), 163-77. <https://doi.org/https://doi.org/10.35219/foodtechnology.2024.01.10>.

Puenea, G., Almăjan-Guță, B., Chioibaș, R., Macașoi, I., Geamantan, A., Dinu, Ștefania, Merghes, P., Boia, E. R., Tischer, A. A., & Iftode, A. (2023). EVALUATION OF OLEANOLIC ACID, DOXORUBICIN AND THEIR ASSOCIATION IN THE TREATMENT OF MELANOMA: ENHANCED EFFICACY AND ANTIANGIOGENIC POTENTIAL. *Farmacia*, 71(6), 1295–1304. <https://doi.org/10.31925/farmacia.2023.6.21>

Ionita I, Malita D, Dehelean C, Olteanu E, Marcovici I, Geamantan A, Chiriac S, Roman A, Radu D. Experimental Models for Rare Melanoma Research-The Niche That Needs to Be Addressed. *Bioengineering (Basel)*. 2023 Jun 1;10(6):673. doi: 10.3390/bioengineering10060673. PMID: 37370604; PMCID: PMC10295405.

● ABSTRACTS AT NATIONAL AND INTERNATIONAL CONFERENCES

Rutin Oleate and Rutin Linoleate Exert a Stronger Anti-Tumor Activity Compared to Rutin in HepG2 Hepatocellular Carcinoma Cells

Congresul Național de Farmacie 2025 Ediția a XX-a, TG MUREȘ, 24-26 Septembrie 2025

Characterization and Biosafety Profile of a Betulin Hydrogel for Potential Skin Applications - An In Vitro-In Ovo Study

[EUROTOX 2025](#) (59th Congress of the European Societies of Toxicology), September 14-17, 2025, in Athens, Greece

In Vitro Assesment of the Safety Profile of Caffeine and Magnesium Ascorbyl Phospate incorporated in HPMC on Human Keratinocytes

EUROTOX 2024, The 58th congress of the European Societies of Toxicology. TOXICOLOGY-A QUEST FOR SAFER CHEMICALS AND MEDICINES. Copenhagen, Denmark, 8-11 September 2024.

● **SKILLS**

Microsoft Office | Graphpad Prism | BioRender (software to create professional scientific figures | Gen5 for Microplate Reading & Data Analysis Softwer

● **PROJECTS**

CNFIS-FDI-2024-F-0524 Titlu: Stimularea și dezvoltarea competențelor antreprenoriale studențești în domeniul sănătate prin metode inovative și abordări translaționale adaptate pieței moderne și nevoilor societății – Universitatea de Medicină și Farmacie „Victor Babeș” Timișoara

● **COURSES**

FELASA Workshop on Severity Classification and Reporting under EU Directive 2010/63/EU

The 3D Epidermal Model Workshop - Skin Irritation Test according to OECD TG 439 organized by MatTek. NEW TRENDS IN PRECLINICAL RESEARCH. December 13-15, 2023

● **DRIVING LICENSE**

DRIVING LICENSE: B