



## Ioana-Gabriela Macașoi

**Date of birth:** 18/02/1993 | **Nationality:** Romanian | **Gender:** Female | **E-mail:** [macasoi.ioana@umft.ro](mailto:macasoi.ioana@umft.ro)

**Address:** Piața Eftimie Murgu Nr. 2, 300041, Timișoara, Romania (Work)

### PROFESSIONAL EXPERIENCE

2025 - IN PROGRESS

**ASSOCIATE PROFESSOR "VICTOR BABES" UNIVERSITY OF MEDICINE AND PHARMACY TIMISOARA**

- producing materials undergraduate and master students
- courses in Toxicology, Drug Industry, Management and Legislation
- research activity

2022 - 2025 Timisoara, Romania

**LECTURER "VICTOR BABES" UNIVERSITY OF MEDICINE AND PHARMACY TIMISOARA**

- producing materials undergraduate and master students
- supporting courses and practical laboratory work in Toxicology, Drug Industry, Management and Legislation
- research activity

2017 - IN PROGRESS Timisoara, Romania

**UNIVERSITY ASSISTANT UNIVERSITY OF MEDICINE AND PHARMACY "VICTOR BABES" TIMISOARA**

- realization of materials for students in the undergraduate program of the Faculty of Pharmacy
- seminars and practical laboratory work in Toxicology, Drug Industry, Management and Legislation
- research activity

**Department** Department of Toxicology and Drug Industry

2016 - 06/2018 Timisoara, Romania

**EXTERNAL COLLABORATOR "VICTOR BABES" UNIVERSITY OF MEDICINE AND PHARMACY**

- realization of materials for students in the undergraduate program of the Faculty of Pharmacy
- practical laboratory work in the subject of Toxicology and Drug Industry
- research activity

**Department** Department of Toxicology and Drug Industry

2016 - 2016 Timisoara, Romania

**VOLUNTEER AT "VICTOR BABES" UNIVERSITY OF MEDICINE AND PHARMACY**

- practical laboratory work in the subject of Toxicology and Drug Industry
- research activity

**Department** Department of Toxicology and Drug Industry

2012 - 2013 Romania

**NATIONAL COORDINATOR IMAGE AND PUBLICATIONS DEPARTMENT FEDERATION OF PHARMACIST STUDENTS IN ROMANIA**

2011 - 2013 Timisoara, Romania

**IMAGE AND PUBLICATIONS COORDINATOR OF THE LEAGUE OF PHARMACIST STUDENTS FROM TIMISOARA**

## ● EDUCATION AND TRAINING

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2016 - 2020 Timisoara, Romania

**PHD DIPLOMA, ORDER OF THE MINISTRY OF EDUCATION NR. 5610 OF 19.11.2021** University of Medicine and Pharmacy "Victor Babes", Timisoara

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2017 - 2018

**CERTIFICATE OF COMPLETION OF PSYCHO-PEDAGOGICAL STUDIES FOR LEVEL I AND II ATTESTATION FOR THE TEACHING PROFESSION (LEVEL I ATTESTATION - SERIES AE, NO. 0021545, LEVEL II ATTESTATION - SERIES AE, NR. 0021615)** Department for Teacher Training West University Timișoara

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2011 - 2016 Timisoara, Romania

**PHARMACIST** University of Medicine and Pharmacy "Victor Babes" Timisoara

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## ● LANGUAGE SKILLS

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Mother tongue(s): **ROMANIAN**

Other language (Other languages):

	COMPREHENSION		VORBIT		WRITTEN
	Oral	Read	Written expression	Conversation	
<b>ENGLISH</b>	comprehension B2	B2	B2	B2	B2

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

## ● SKILLS

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AngioQuant | Microsoft Word | Microsoft Excel | Power Point | Microsoft Office | Adobe Creative Cloud: Acrobat DC, Lightroom, Photoshop | Image processing: ImageJ, Avizo, Inkscape, GIMP. | Discovery Studio | Interactive presentations (Prezi)

## ● CONFERENCES AND SEMINARS

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### Conferences and seminars

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- National Congress of Pharmacist Students, Cluj-Napoca, Cluj-Napoca, April 1-5, 2015, The effects of betulin and acid betulin on melanoma on the chorioallantoic membrane, Volume of abstracts, p 28
- National Congress of Pharmacist Students, Bucharest, Bucharest, April 5-9, 2017, The impact of some triterpene compounds on the process of mesenchymal epithelial transition in vitro, Abstract brochure, p 54
- I.Z. Pavel, O.M. Duicu, I. Macasoi, C. Dehelean, R. Csuk, D.M. Muntean. The Acute and Chronic Effects Of A Benzylamide Derivative Of Maslinic Acid In Liver Mitochondria Isolated from Mice With Chemically Induced Skin Carcinogenesis. WISE3 Conference in Szeged, COST ACTION MitoEAGLE, Action number: CA15203, 26-27.03.2018, Szeged, Hungary
- I. Macaşoi, I.Z. Pavel, A. Mioc, D. Coricovac, R. Csuk, C.A. Dehelean, D. Muntean. Characterization of the Effects of An Oleanolic Acid-Rhodamine B Derivative on Mitochondrial Respiration of Human Keratinocytes. Days of the University of Medicine and Pharmacy "Victor Babeş" Timișoara, December 2018, Timișoara
- Ioana-Gabriela Macaşoi, Iulia Pînzaru, Coricovac Dorina, Madalina Cabuta, Iasmina Marcovici, Octavian Marius Cretu, Cristina Adriana Dehelean. Oleanolic acid encapsulated in liposomes as a potential therapeutic approach for hepatocellular carcinoma. 8th German Pharm-Tox Summit 2023.
- Ioana Macasoi, I. Pinzaru, S. D. Chiriac, D. Radu, C. Dehelean. Oleanolic acid-based liposomes selectively targets human melanoma cells by affecting mitochondrial function. Eurotox 2023.

## ● PROJECTS

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**Investigation concerning the mechanism of action of oleanolic acid derivative conjugated with Rhodamine B.**

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Research grant no. 2DOC / 2020 Project  
Director

2023 - 2024

**Postdoctoral Project. Liposome-incorporated oleanolic acid as a potential mitochondrial target in tumor pathology.**

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ACRONYM: OA-LIP-MIT

Project Director

**Cooperation to Implement Innovative Methods for the Assessment of Medicinal Plants with central Roles in Pharmaceuticals, Agriculture and Nutrition - ERASMUS 2022-1-RO01-KA220-HED-000088958**

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Project member

**Implementation of modern techniques for the continuous development of the practice base in the field of medicinal plant products within UMF "Victor Babes" Timisoara - CNFIS-FDI-2022-0484**

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Project member

● **TECHNICAL SKILLS**

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**Technical skills**

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Interdisciplinary scientific research activity - areas of research interest:

- Evaluation of natural compounds with potential therapeutic actions
- In vitro studies on tumor and healthy cell lines: cell viability. Cellular studies (MTT assay, Alamar Blue), immunofluorescence, cellular respiration by high resolution spirometry using Oxygraph-2k Oroboros Ltd
- In ovo angiogenesis studies using the chorioallantoic membrane

● **ORGANIZATIONAL SKILLS**

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**Organizational skills**

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- experience of team leadership having been responsible in the past for organizing a team at national level
- ability to work in multidisciplinary national and international teams
- observant, serious

● **COMMUNICATION AND INTERPERSONAL SKILLS**

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**Communication and interpersonal skills**

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- Very good communication skills, ability to assimilate new information and practical skills, team spirit, ability to synthesize and analyze
  - Coordination skills, evaluation and improvement spirit, self-development skills, ability to work in a team
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● **HONORS AND AWARDS**

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**Award-winning scientific work**

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1. PN-IV-P2-2.3-PRECISI-2023-84870 Melanin and Melanin-Functionalized Nanoparticles as Promising Tools in Cancer Research - A Review
2. PN-III-P1-1.1-PRECISI-2021-59308 - Assessment of Betulinic Acid Cytotoxicity and Mitochondrial Metabolism Impairment in a Human Melanoma Cell Line. Int J Mol Sci. 2021 May 4;22(9):4870
3. PN-III-P1-1.1-PRECISI-2020-47247 - Controlled Synthesis and Characterization of Micrometric Single Crystalline Magnetite With Superparamagnetic Behavior and Cytocompatibility/Cytotoxicity Assessments
4. PN-III-P1-1.1-PRECISI-2020-52651 - Targeting Mitochondria through the Use of Mitocans as Emerging Anticancer Agents

5. PN-III-P1-1.1-PRECISI-2021-56880 - High Concentrations of Aspartame Induce Pro-Angiogenic Effects in Ovo and Cytotoxic Effects in HT-29 Human Colorectal Carcinoma Cells
6. PN-III-P1-1.1-PRECISI-2021-60775 - Tetracyclic and Pentacyclic Triterpenes with High Therapeutic Efficacy in Wound Healing Approaches
7. PN-III-P1-1.1-PRECISI-2021-67401 - Oleogel Formulations for the Topical Delivery of Betulin and Lupeol in Skin Injuries-Preparation, Physicochemical Characterization, and Pharmacotoxicological Evaluation
8. PN-III-P1-1.1-PRECISI-2019-35025 - Fe<sub>3</sub>O<sub>4</sub>@C Matrix with Tailorable Adsorption Capacities for Paracetamol and Acetylsalicylic Acid: Synthesis, Characterization, and Kinetic Modeling



## List of Publications

### PhD Thesis

Title of the PhD thesis - INVESTIGATIONS CONCERNING THE MECHANISMS OF ACTION OF FUNCTIONALIZED TRITERPENOIDS, 2021, conducător științific Prof. Univ. Dr. Victor Dumitrașcu, Ministerul Educației, Calificativul Excelent

### PUBLISHED IN EXTENSO ARTICLES

### ARTICLES IN ISI QUOTED JOURNALS

1. Monica Susan, **Ioana Macasoï\***, Iulia Pinzaru, Cristina Dehelean, Iosif Ilia, Razvan Susan, Ioana Ionita. In Vitro Assessment of the Synergistic Effect of Aspirin and 5-Fluorouracil in Colorectal Adenocarcinoma Cells. *Current Oncology*, 2023, 30, 7, 6197–6219, doi: 10.3390/currenocol30070460, FI = 2,6
2. Otilia Gag, **Ioana Macasoï\***, Iulia Pinzaru, Stefania Dinu, Ramona Popovici, Mioara-Raluca Cosoroaba, Roxana Buzatu, Madalina Cabuta, Sorin Dan Chiriac. In Vitro Assessment of the Impact of Ultraviolet B Radiation on Oral Healthy and Tumor Cells. *Photonics*, 2023, 10, 4, 464, <https://doi.org/10.3390/photonics10040464>, FI = 2,5
3. Robert Rednic, **Ioana Macasoï\***, Iulia Pinzaru, Cristina Adriana Dehelean, Mirela-Cleopatra Tomescu, Monica Susan, Horea Feier. Pharmacological Assessment of the Combined Cytotoxic Effects of Digoxin and Betulinic Acid in Melanoma Cells. *Life*, 2022, 12, 11, 1855, <https://doi.org/10.3390/life12111855>, FI = 3,2
4. Daniel Florin Panu, Robert Cosmin Racea, **Ioana Macasoï\***, Cristian Andrei Sarau, Iulia Pinzaru, Marioara Poenaru, Laura-Cristina Rusu, Cristina Adriana Dehelean, Stefania Dinu. Assessment of the In Vitro Cytotoxic Profile of Two Broad-Spectrum Antibiotics—Tetracycline and Ampicillin—On Pharyngeal Carcinoma Cells. *Medicina*, 2022, 58, 9, 1289, <https://doi.org/10.3390/medicina58091289>, FI = 2,9
5. Mihai M. C. Fabricky, Robert Cosmin Racea, **Ioana Macasoï\***, Iulia Pinzaru, Cosmin Sinescu, Horatiu Cristian Manea, Laura-Cristina Rusu, Dana Stoian, Roxana Buzatu, Stefania Dinu. The In Vitro Impact of Two Scaffold-Type Structure Dental Ceramics on the Viability, Morphology, and Cellular Migration of Pharyngeal Cancer Cells. *Coatings*, 2022, 12, 8, 1212, <https://doi.org/10.3390/coatings12081212>, FI = 3,2
6. Gabriel Veniamin Cozma, Alexandru Apostu, **Ioana Macasoï\***, Cristina Adriana Dehelean, Octavian Marius Cretu, Stefania Dinu, Dan Gaita, Aniko Manea. In Vitro and In Ovo Evaluation of the Potential Hepatoprotective Effect of Metformin. *Medicina*, 2022, 58, 6, 705, <https://doi.org/10.3390/medicina58060705>, FI = 2,9
7. Raluca Dumache, Alexandra Enache, **Ioana Macasoï\***, Cristina Adriana Dehelean, Victor Dumitrașcu, Alexandra Mihailescu, Roxana Popescu, Daliborca Vlad, Cristian Sebastian

- Vlad, Camelia Muresan. SARS-CoV-2: An Overview of the Genetic Profile and Vaccine Effectiveness of the Five Variants of Concern. *Pathogens*, 2022, 11, 5, 516, <https://doi.org/10.3390/pathogens11050516>, FI =
8. Stefania Dinu, Roxana Buzatu, **Ioana Macasoi\***, Malina Popa, Cristian Sebastian Vlad, Iasmina Marcovici, Iulia Pinzaru, Cristina Adriana Dehelean, Elena-Alina Moaca, Lucian Barbu-Tudoran, Marius Pricop. Toxicological Profile of Biological Environment of Two Elastodontic Devices. *Processes*, 2021, 9, 12, 2116, <https://doi.org/10.3390/pr9122116>, FI = 2,8
  9. Raluca-Adriana Milutinovici, Doina Chioran, Roxana Buzatu, **Ioana Macasoi\***, Susan Razvan, Raul Chioibas, Ion Virgil Corlan, Alina Tanase, Calniceanu Horia, Ramona Amina Popovici, Stefania Dinu, Cristina Dehelean, Alexandra Scurtu, Iulia Pinzaru, Codruta Soica . Vegetal Compounds as Sources of Prophylactic and Therapeutic Agents in Dentistry. *Plants*, 2021, 10, 10, 2148, <https://doi.org/10.3390/plants10102148>, FI = 3,9
  10. Emil-Florin Hut, Matilda Radulescu, Nicolae Pilut, **Ioana Macasoi\***, Delia Berceanu, Dorina Coricovac, Iulia Pinzaru, Octavian Cretu, Cristina Dehelean. Two Antibiotics, Ampicillin and Tetracycline, Exert Different Effects in HT-29 Colorectal Adenocarcinoma Cells in Terms of Cell Viability and Migration Capacity. *Current Oncology*, 2021, 28, 4, 2466-2480, DOI:10.3390/curroncol28040225, FI = 3,6
  11. Daniel Florin Panu, Alexandra Scurtu, **Ioana Gabriela Macasoi\***, Daniela Marti, Marius Mioc, Codruta Soica, Dorina Coricovac, Delia Horhat, Marioara Poenaru, Cristina Dehelean. Antibiotics: Conventional Therapy and Natural Compounds with Antibacterial Activity—A Pharmaco-Toxicological Screening. *Antibiotics*, 2021, 10, 4, 401, DOI:10.3390/antibiotics10040401, FI = 3,8
  12. Cristina Adriana Dehelean, Casiana Boru, **Ioana Gabriela Macasoi\***, Ștefania-Irina Dumitrel, Cristina Trandafirescu, Alexa Ersilia. Obtaining and Characterization of Nutraceuticals Based on Linoleic Acid Derivatives Obtained by Green Synthesis and Their Valorization in the Food Industry. *Nutrients*, 2025, 17, 15, 2416, <https://doi.org/10.3390/nu17152416>, FI = 5
  13. **Ioana Macasoi**, Ioana Zinuca Pavel, Alina Elena Moacă, Ștefana Avram, Vlad Laurențiu David, Dorina Coricovac, Alexandra Mioc, Demetrios A Spandidos, Aristidis Tsatsakis, Codruța Șoica, Victor Dumitrașcu, Cristina Dehelean. Mechanistic investigations of antitumor activity of a Rhodamine B-oleanolic acid derivative bioconjugate. *Oncology Reports*, 2020, 44, 3, 1169-1183, DOI:10.3892/or.2020.7666, FI = 3,9
  14. **Ioana Macasoi**, Alexandra Mioc, Marius Mioc, Roxana Racoviceanu, Irina Soica, Adelina Chevereșan, Cristina Dehelean, Victor Dumitrașcu. Targeting Mitochondria through the Use of Mitocans as Emerging Anticancer Agents. *Current Medicinal Chemistry*, 2020, 27, 34, 5730-5757, DOI:10.2174/0929867326666190712150638, FI = 4,5
  15. **Ioana Macasoi**, Marius Mioc, Delia Berceanu Vaduva, Roxana Ghiulai, Alexandra Mioc, Codruta Soica, Danina Muntean, Victor Dumitrascu. In silico Evaluation of the Antiproliferative Mitochondrial Targeted Mechanism of Action of Some Pentacyclic Triterpene Derivatives. *Revista de Chimie*, 2018, 69, 12, 3361-3363, <https://doi.org/10.37358/RC.18.12.6749>, FI = 1,6
  16. Zakzak Khaled, Gheorghe Ilia, Claudia Watz, **Ioana Macasoi**, George Drăghici, Vasile Simulescu, Petru Eugen Merghes, Narcis Ion Varan, Cristina Adriana Dehelean, Lavinia Vlaia, Laurentiu Sima. The Biological Impact of Some Phosphonic and Phosphinic Acid

- Derivatives on Human Osteosarcoma. *Current Issues in Molecular Biology*, 2024, 46, 5, 4815-4831; <https://doi.org/10.3390/cimb46050290>, FI = 3,1
17. Claudia Iftode, Stela Iurciuc, Iasmina Marcovici, **Ioana Macasoi**, Dorina Coricovac, Cristina Dehelean, Sorin Ursoniu, Andreea Rusu, Simona Ardelean. Genistein–Aspirin Combination Exerts Cytotoxic and Anti-Migratory Effects in Human Colorectal Cancer Cells. *Life*, 2024, 14, 5, 606, <https://doi.org/10.3390/life14050606>, FI = 3,2
  18. Daniel Breban-Schwarzkopf, Raul Chioibas, Ioana Macasoi, Sorin Bolintineanu, Iasmina Marcovici, George Draghici, Stefania Dinu, Roxana Buzatu, Cristina Dehelean, Camelia Szuhaneck Comprehensive in vitro and in ovo assessment of cytotoxicity: Unraveling the impact of sodium fluoride, xylitol, and their synergistic associations in dental products. *Biomolecules & Biomedicine*, 2024, 24, 4, 923-38, <https://doi.org/10.17305/bb.2024.10181>, FI = 3,1
  19. Alexandru Sandor, Ionel Fizesan, Ioana Ionut, Gabriel Marc, Cristina Moldovan, Iliora Oniga, Adrian Pîrnău, Laurian Vlase, Andreea-Elena Petru, Ioana Macasoi, Ovidiu Oniga. Discovery of A Novel Series of Quinazoline–Thiazole Hybrids as Potential Antiproliferative and Anti-Angiogenic Agents. *Biomolecules*, 2024, 14, 4, 218, <https://doi.org/10.3390/biom14020218>, FI = 5,6
  20. Radu Gheorghe Dan, Iustin Olaru, Corina Paul, Eugen Radu Boia, Ioana Macasoi, Daniel Breban-Schwarzkopf, Octavian Marius Crețu, Sorin Dan Chiriac, Petru Merghes, Raul Chioibas. Comparative In Vitro And In Ovo Study Of The Cytotoxic Profile Of Nicotine From Electronic Cigarettes Versus Chewing Gum. *Farmacia*, 2023, 71, 6, 1197-1207, <https://doi.org/10.31925/farmacia.2023.6.10>, FI = 1,5
  21. George Puenea, Bogdan Almăjan-Guță, Raul Chioibaș, Ioana Macașoi, Andreea Geamantan, Ștefania Dinu, Petru Merghes, Eugen Radu Boia, Alina Andreea Tischer, Andrada Iftode. Evaluation Of Oleanolic Acid, Doxorubicin And Their Association In The Treatment Of Melanoma: Enhanced Efficacy And Antiangiogenic Potentia. *Farmacia*, 2023, 71, 6, 1295-1304, <https://doi.org/10.31925/farmacia.2023.6.21>, FI = 1,5
  22. Robert-Cosmin Racea, Ioana-Gabriela Macasoi, Stefania Dinu, Iulia Pinzaru, Iasmina Marcovici, Cristina Dehelean, Laura-Cristina Rusu, Doina Chioran, Mircea Rivis, Roxana Buzatu. Eugenol: In Vitro and In Ovo Assessment to Explore Cytotoxic Effects on Osteosarcoma and Oropharyngeal Cancer Cells. *Plants*, 2023, 12, 20, 3549; <https://doi.org/10.3390/plants12203549>, FI = 4,5
  23. Alexandru Apostu, Roxana Buzatu, Madalina Cabuta, Ioana Macasoi, Stefania Dinu, Andrada Iftode, Horațiu Cristian Mânea, Dan Ion Gaita, Sorin Dan Chiriac . In Vitro Assessment Of The Potential Cytotoxic Effect Of Metformin On Colorectal Cancer Cells. *Farmacia*, 2023, 71, 1, 50-57, <https://doi.org/10.31925/farmacia.2023.1.7>, FI = 1,5
  24. Dan-Alexandru Surducun, Robert Cosmin Racea, Madalina Cabuta, Iustin Olariu, Ioana Macasoi, Laura Cristina Rusu, Sorin Dan Chiriac, Doina Chioran, Stefania Dinu, Marius Octavian Pricop. Eugenol Induces Apoptosis in Tongue Squamous Carcinoma Cells by Mediating the Expression of Bcl-2 Family. *Life*, 2022, 13, 1, 22, <https://doi.org/10.3390/life13010022>, FI = 3,2
  25. Cristina Adriana Dehelean, Dorina Coricovac, Iulia Pinzaru, Iasmina Marcovici, Ioana Gabriela Macasoi, Alexandra Semenescu, Geza Lazar, Simona Cinta Pinzaru, Isidora Radulov, Ersilia Alexa, Octavian Cretu. Rutin bioconjugates as potential nutraceutical prodrugs: An in vitro and in ovo toxicological screening. *Frontiers in Pharmacology*, 2022, 13, 1000608. doi: 10.3389/fphar.2022.1000608, FI = 5,6

26. Marius Mioc, Alexandra Mioc, Alexandra Prodea, Andreea Milan, Mihaela Balan Porcarasu, Roxana Racoviceanu, Roxana Ghiulai, Gheorghe Iovanescu, Ioana Macasoi, George Draghici, Cristina Dehelean, Codruta Soica. Novel Triterpenic Acid Benzotriazole Esters Act as Pro-Apoptotic Antimelanoma Agents. *International Journal of Molecular Sciences*, 2022, 23, 17, 9992; <https://doi.org/10.3390/ijms23179992>, FI = 6,2
27. Alina Anton, Elena Alina Moacă, Cristian Andrei Sarau, Ștefania Dinu, Alexandra Denisa Semenescu, Ioana Gabriela Macasoi, Cristina Adriana Dehelean. Antioxidant And In Vitro Cytotoxic Activity Of Commercial Lemongrass, Sea Buckthorn And Basil Essential Oils, Against Colorectal Cancer Cell Line Hct 116. *Farmacia*, 2022, 70, 4, 683-689, <https://doi.org/10.31925/farmacia.2022.4.14>, FI = 1,5
28. Doina Chioran, Adrian Sitaru, Ioana Macasoi, Iulia Pinzaru, Cristian Andrei Sarau, Cristina Dehelean, Ștefania Dinu, Camelia Szuhaneck, Irina Nicoleta Zetu, Andra Cristine Serafin, Mircea Rivis, Marioara Poenaru, Razvan Dragoi. Nicotine Exerts Cytotoxic Effects in a Panel of Healthy Cell Lines and Strong Irritating Potential on Blood Vessels. *International Journal of Environmental Research and Public Health*, 2022, 19, 14, 8881; <https://doi.org/10.3390/ijerph19148881>, FI = 4,6
29. Iasmina Marcovici, Dorina Coricovac, Iulia Pinzaru, Ioana Gabriela Macasoi, Roxana Popescu, Raul Chioibas, Istvan Zupko, Cristina Adriana Dehelean. Melanin and Melanin-Functionalized Nanoparticles as Promising Tools in Cancer Research—A Review. *Cancers*, 2022, 14, 7, 1838; <https://doi.org/10.3390/cancers14071838>, FI = 6,6
30. Irina Smirnova, George Draghici, Oxana Kazakova, Lavinia Vlaia, Ștefania Avram, Alexandra Mioc, Marius Mioc, Ioana Macasoi, Cristina Dehelean, Adrian Voicu, Codruța Soica. Hollongdione arylidene derivatives induce antiproliferative activity against melanoma and breast cancer through pro-apoptotic and antiangiogenic mechanisms. *Bioorganic Chemistry*, 2022, 119, 105535. doi: 10.1016/j.bioorg.2021.105535, FI = 5,1
31. Andreea M. Kis, Ioana Macasoi, Corina Paul, Matilda Radulescu, Roxana Buzatu, Claudia G. Watz, Adelina Cheveresan, Delia Berceanu, Iulia Pinzaru, Ștefania Dinu, Aniko Manea, Marioara Poenaru, Claudia Borza, Cristina A. Dehelean. Methotrexate and Cetuximab—Biological Impact on Non-Tumorigenic Models: In Vitro and In Ovo Assessments. *Medicina*, 2021, 58, 2, 167; <https://doi.org/10.3390/medicina58020167>, FI = 2,4
32. Ștefania Dinu, Emanuela Lidia Craciunescu, Ioana Macasoi, Doina Chioran, Mircea Rivis, Daliborca Vlad, Raluca Adriana Milutinovici, Iasmina Marcovici, Alina Dolghi, Alina Moaca, Dorin Cristian Dinu, Cristina Dehelean, Malina Popa. Toxicological Assessment of an Acrylic Removable Orthodontic Appliance Using 2D and 3D In Vitro Methods. *Materials*, 2022, 15, 3, 1193; <https://doi.org/10.3390/ma15031193>, FI = 3,6
33. Lavinia Melania Bratu, Iasmina Marcovici, Ioana Macasoi, Aniko Manea, Bogdan Niculescu, Flavius Olaru, Alina Heghes, Cristina Dehelean, Dorina Coricovac. In Vitro Insights Regarding The Role Of Melanin In Melanoma Cells' Response To Betulinic Acid Treatment. *Farmacia*, 2022, 70, 1, 8-16, <https://doi.org/10.31925/farmacia.2022.1.2>, FI = 1,5
34. Ciprian Nicolae Pilut, Aniko Manea, Ioana Macasoi, Amadeus Dobrescu, Doina Georgescu, Roxana Buzatu, Alin Faur, Ștefania Dinu, Doina Chioran, Iulia Pinzaru, Monica Hancianu, Cristina Dehelean, Daniel Malita. Comparative Evaluation of the Potential Antitumor of *Helleborus purpurascens* in Skin and Breast Cancer. *Plants*, 2022, 11, 2, 194; <https://doi.org/10.3390/plants11020194>, FI = 3,9

35. Daliana Minda, Alexandra Mioc, Christian Banciu, Codruta Soica, Roxana Racoviceanu, Marius Mioc, Ioana Macasoi, Stefana Avram, Adrian Voicu, Andrei Motoc, Cristina Trandafirescu. Cyclodextrin Dispersion of Mebendazole and Flubendazole Improves In Vitro Antiproliferative Activity. *Processes*, 2021, 9, 12, 2185; <https://doi.org/10.3390/pr9122185>, FI = 2,8
36. Flavia Bociort, Ioana Gabriela Macasoi, Iasmina Marcovici, Andrei Motoc, Cristina Grosu, Iulia Pinzaru, Crina Petean, Stefana Avram, Cristina Adriana Dehelean. Investigation of Lupeol as Anti-Melanoma Agent: An In Vitro-In Ovo Perspective *Current Oncology*, 2021, 28, 6, 5054-5066; <https://doi.org/10.3390/curroncol28060425>, FI = 3,6
37. Oxana Kazakova, Codruta Soica, Marat Babaev, Anastasiya Petrova, Elmira Khusnutdinova, Alexander Poptsov, Ioana Macasoi, George Draghici, Stefana Avram, Lavinia Vlaia, Alexandra Mioc, Marius Mioc, Cristina Dehelean, Adrian Voicu. 3 Pyridinylidene Derivatives of Chemically Modified Lupane and Ursane Triterpenes as Promising Anticancer Agents by Targeting Apoptosis. *International Journal of Molecular Sciences*, 2021, 22, 19, 10695; <https://doi.org/10.3390/ijms221910695>, FI = 5,9
38. Oxana Kazakova, Alexandra Mioc, Irina Smirnova, Irina Baikova, Adrian Voicu, Lavinia Vlaia, Ioana Macasoi, Marius Mioc, George Draghici, , Stefana Avram, Cristina Dehelean, Codruta Soica. Novel Synthesized N-Ethyl-Piperazinyl-Amides of C2-Substituted Oleanonic and Ursolic Acids Exhibit Cytotoxic Effects through Apoptotic Cell Death Regulation. *International Journal of Molecular Sciences*, 2021, 22, 20, 10967; <https://doi.org/10.3390/ijms222010967>, FI = 5,9
39. Ramona Daniela Pârvanescu (Pana), Claudia-Geanina Watz, Elena-Alina Moaca, Lavinia Vlaia, Iasmina Marcovici, Ioana Gabriela Macasoi, 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, 14, 4174; <https://doi.org/10.3390/molecules26144174>, FI = 4,4
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