



Ioana-Gabriela Macașoi

Date of birth: 18/02/1993 | **Nationality:** Romanian | **Gender:** Female |

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● WORK EXPERIENCE

2025 – CURRENT, Timișoara, Romania

ASSOCIATE PROFESSOR "VICTOR BABEȘ" UNIVERSITY OF MEDICINE AND PHARMACY TIMIȘOARA

- developing teaching materials for undergraduate and master's students
- teaching courses in Toxicology, Drug Industry, Management and Legislation
- coordinating the *in vitro* studies laboratory (since 2026)
- research activity

Department Department I – University Clinic of Toxicology, Drug Industry, Management, Legislation and Dermatopharmacy

2022 – 2025, Timișoara, Romania

LECTURER "VICTOR BABEȘ" UNIVERSITY OF MEDICINE AND PHARMACY TIMIȘOARA

- developing teaching materials for undergraduate and master's students
- teaching courses and practical laboratory work in Toxicology, Drug Industry, Management and Legislation
- research activity

2017 – 2022, Timișoara, Romania

TEACHING ASSISTANT "VICTOR BABEȘ" UNIVERSITY OF MEDICINE AND PHARMACY TIMIȘOARA

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

2016 – 06/2018, Timișoara, Romania

EXTERNAL COLLABORATOR "VICTOR BABEȘ" UNIVERSITY OF MEDICINE AND PHARMACY TIMIȘOARA

- developing teaching materials for undergraduate students of the Faculty of Pharmacy
- practical laboratory work in Toxicology and Drug Industry
- research activity

2016, Timișoara, Romania

VOLUNTEER "VICTOR BABEȘ" UNIVERSITY OF MEDICINE AND PHARMACY TIMIȘOARA

- practical laboratory work in Toxicology and Drug Industry
- research activity

2012 – 2013, Romania

NATIONAL COORDINATOR, IMAGE AND PUBLICATIONS DEPARTMENT FEDERATION OF PHARMACY STUDENTS IN ROMANIA

2011 – 2013, Timișoara, Romania

IMAGE AND PUBLICATIONS COORDINATOR LEAGUE OF PHARMACY STUDENTS OF TIMIȘOARA

● EDUCATION AND TRAINING

2026, Timișoara, Romania

HABILITATION CERTIFICATE in the doctoral field **Pharmacy** – Order of the Minister of Education and Research no. 4739 of 21.08.2026

Habilitation thesis defended at IOSUD "Victor Babeș" University of Medicine and Pharmacy Timișoara; CNATDCU decision of 16.08.2026

2016 – 2020, Timișoara, Romania

PhD DIPLOMA, Order of the Minister of Education no. 5610 of 19.11.2021 – "VICTOR BABEȘ" UNIVERSITY OF MEDICINE AND PHARMACY TIMIȘOARA

Thesis: *Investigations concerning the mechanisms of action of functionalized triterpenoids*; scientific supervisor Prof. Victor Dumitrașcu, MD, PhD; rating: Excellent

2017 – 2018

CERTIFICATE OF COMPLETION OF PSYCHO-PEDAGOGICAL STUDIES FOR LEVEL I AND II CERTIFICATION FOR THE TEACHING PROFESSION (Level I – series AE, no. 0021545; Level II – series AE, no. 0021615) Teacher Training Department, West University of Timișoara

2011 – 2016, Timișoara, Romania

PHARMACIST "VICTOR BABEȘ" UNIVERSITY OF MEDICINE AND PHARMACY TIMIȘOARA

● LANGUAGE SKILLS

Mother tongue: **ROMANIAN**

Other languages:

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2 – basic user; B1 and B2 – independent user; C1 and C2 – proficient user

● DIGITAL SKILLS

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

● CONFERENCES AND SEMINARS

- National Congress of Pharmacy Students, Cluj-Napoca, April 1–5, 2015. *The effects of betulin and betulinic acid on melanoma on the chorioallantoic membrane*. Book of abstracts, p. 28
- National Congress of Pharmacy Students, Bucharest, April 5–9, 2017. *The impact of some triterpene compounds on the process of epithelial–mesenchymal transition in vitro*. Book of abstracts, p. 54
- I.Z. Pavel, O.M. Duicu, I. Macașoi, 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, COST Action MitoEAGLE CA15203, Szeged, Hungary, 26–27.03.2018
- I. Macașoi, 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 "Victor Babeș" University of Medicine and Pharmacy, Timișoara, December 2018
- I.G. Macașoi, I. Pînzaru, D. Coricovac, M. Cabuta, I. Marcovici, O.M. Crețu, C.A. Dehelean. *Oleanolic acid encapsulated in liposomes as a potential therapeutic approach for hepatocellular carcinoma*. 8th German Pharm-Tox Summit, 2023
- I. Macașoi, I. Pînzaru, S.D. Chiriac, D. Radu, C. Dehelean. *Oleanolic acid-based liposomes selectively target human melanoma cells by affecting mitochondrial function*. EUROTOX 2023

● PROJECTS

2026 • SASStart Health – Institutional Development Fund project, CNFIS-FDI-2026-F-1285

Project member

2026 • TRANZ-PLANTMED – Institutional Development Fund project, CNFIS-FDI-2026-F-1237

Project member

2023 – 2024 • Postdoctoral project: Liposome-incorporated oleanolic acid as a potential mitochondrial target in tumour pathology (OA-LIP-MIT)

Project director

2020 • Investigation concerning the mechanism of action of oleanolic acid derivative conjugated with Rhodamine B – research grant no. 2DOC/2020

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

Project member

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

Project member

● TECHNICAL SKILLS

Interdisciplinary scientific research – areas of interest:

- Evaluation of natural compounds with potential therapeutic actions
- *In vitro* studies on tumour and healthy cell lines: cell viability (MTT, Alamar Blue), immunofluorescence, mitochondrial respiration by high-resolution respirometry (Oxygraph-2k, Oroboros Instruments)
- *In ovo* angiogenesis studies on the chorioallantoic membrane (CAM)

● ORGANISATIONAL SKILLS

- team leadership experience, having been responsible for organising a team at national level
- coordinating a research team of PhD and master's students
- ability to work in multidisciplinary national and international teams
- attention to detail, reliability

● COMMUNICATION AND INTERPERSONAL SKILLS

- very good communication skills, ability to assimilate new information and practical skills, team spirit, capacity for synthesis and analysis
- coordination skills, commitment to evaluation and continuous improvement, self-development

● HONOURS AND AWARDS

Award-winning scientific papers (UEFISCDI – Awarding of research results, PRECISI)

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;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 Efficiency 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 Pharmacological-Toxicological Evaluation
8. PN-III-P1-1.1-PRECISI-2019-35025 – Fe_3O_4 @C Matrix with Tailorable Adsorption Capacities for Paracetamol and Acetylsalicylic Acid: Synthesis, Characterization, and Kinetic Modeling

List of Publications

PhD THESIS

Investigations concerning the mechanisms of action of functionalized triterpenoids, 2021,
scientific supervisor Prof. Victor Dumitrașcu, MD, PhD, Ministry of Education, rating: Excellent

ARTICLES PUBLISHED IN EXTENSO

Articles in ISI-indexed journals (Web of Science)

1. Monica Susan, **Ioana Macasoi***, 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/curroncol30070460, IF = 2.6
2. Otilia Gag, **Ioana Macasoi***, 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>, IF = 2.5
3. Robert Rednic, **Ioana Macasoi***, 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>, IF = 3.2
4. Daniel Florin Pancu, Robert Cosmin Racea, **Ioana Macasoi***, 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>, IF = 2.9
5. Mihai M. C. Fabricky, Robert Cosmin Racea, **Ioana Macasoi***, 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>, IF = 3.2
6. Gabriel Veniamin Cozma, Alexandru Apostu, **Ioana Macasoi***, 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>, IF = 2.9
7. Raluca Dumache, Alexandra Enache, **Ioana Macasoi***, Cristina Adriana Dehelean, Victor Dumitrașcu, Alexandra Mihailescu, Roxana Popescu, Dalibor 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>
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>, IF = 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>, IF = 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, IF = 3.6
11. Daniel Florin Pancu, 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 Pharmac-Toxicological Screening. *Antibiotics*, 2021, 10, 4, 401, doi: 10.3390/antibiotics10040401, IF = 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>, IF = 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, IF = 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, IF = 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>, IF = 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>, IF = 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>, IF = 3.2

18. Daniel Breban-Schwarzkopf, Raul Chioibas, **Ioana Macasoi**, Sorin Bolintineanu, Iasmina Marcovici, George Draghici, Stefania Dinu, Roxana Buzatu, Cristina Dehelean, Camelia Szuhanek. 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, 923–938, <https://doi.org/10.17305/bb.2024.10181>, IF = 3.1
19. Alexandru Sandor, Ionel Fizesan, Ioana Ionut, Gabriel Marc, Cristina Moldovan, Ilioara 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, 2, 218, <https://doi.org/10.3390/biom14020218>, IF = 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 Mergheș, 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>, IF = 1.5
21. George Puenea, Bogdan Almăjan-Guță, Raul Chioibaș, **Ioana Macașoi**, Andreea Geamantan, Ștefania Dinu, Petru Mergheș, 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 Potential. *Farmacia*, 2023, 71, 6, 1295–1304, <https://doi.org/10.31925/farmacia.2023.6.21>, IF = 1.5
22. Robert-Cosmin Racea, **Ioana-Gabriela Macasoi**, Stefania Dinu, Iulia Pinzaru, Iasmina Marcovici, Cristina Dehelean, Laura-Cristina Rusu, Doina Chioran, Mircea Ravis, 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>, IF = 4.5
23. Alexandru Apostu, Roxana Buzatu, Madalina Cabuta, **Ioana Macasoi**, Stefania Dinu, Andrada Iftode, Horațiu Cristian Mănea, 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>, IF = 1.5
24. Dan-Alexandru Surducă, 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*, 2023, 13, 1, 22, <https://doi.org/10.3390/life13010022>, IF = 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, IF = 5.64
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>, IF = 6.2

27. Alina Anton, Elena Alina Moacă, Cristian Andrei Sarau, Ștefania Dinu, Alexandra Denisa Semenescu, **Ioana Gabriela Macașoi**, 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>, IF = 1.5
28. Doina Chioran, Adrian Sitaru, **Ioana Macasoi**, Iulia Pinzaru, Cristian Andrei Sarau, Cristina Dehelean, Ștefania Dinu, Camelia Suzhanek, Irina Nicoleta Zetu, Andra Cristine Serafin, Mircea Ravis, 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>, IF = 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>, IF = 6.6
30. Irina Smirnova, George Draghici, Oxana Kazakova, Lavinia Vlaia, Ștefana 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, IF = 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*, 2022, 58, 2, 167, <https://doi.org/10.3390/medicina58020167>, IF = 2.4
32. Ștefania Dinu, Emanuela Lidia Craciunescu, **Ioana Macasoi**, Doina Chioran, Mircea Ravis, 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>, IF = 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>, IF = 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>, IF = 3.95

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>, IF = 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>, IF = 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>, IF = 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 Ursonic Acids Exhibit Cytotoxic Effects through Apoptotic Cell Death Regulation. *International Journal of Molecular Sciences*, 2021, 22, 20, 10967, <https://doi.org/10.3390/ijms222010967>, IF = 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>, IF = 4.4
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