

INFORMAȚII PERSONALE
Mihăilă (Hirt) Mirela Antonela


Locul de munca
Poziția actuală

Institutul de Virusologie "Stefan S. Nicolau"
Cercetator stiintific II

EXPERIENȚA PROFESIONALĂ

Perioada Funcția sau postul ocupat Activități și responsabilități principale	2022 - prezent Cercetator științific II Activități specifice de cercetator științific II. Participare la proiecte de cercetare naționale. Coordonare proiecte de cercetare și participare ca și colaborator în proiecte naționale și internaționale. Domenii de cercetare: imunologie celulară și tumorală, imunoterapie, imunochimie, culturi celulare, biologie moleculară și celulară. Izolare acizi nucleici, RT-PCR. Transmiterea de semnale intracelulare, western-blotting.
Nume și adresă Angajator Tipul și sectorul de activitate	Institutul de Virusologie "Stefan S. Nicolau", Sos. Mihai Bravu, Nr. 285, Sector 3, cod 030304, București, România, www.virology.ro Sectorul cercetare
Perioada Funcția sau postul ocupat	2022 – prezent Lector universitar
Activități și responsabilități principale Nume și adresă Angajator Tipul și sectorul de activitate	Activitate didactică curs și laborator; efectuarea de lucrări practice pentru disciplina Biochimie, coordonare lucrări de licență Facultatea de Farmacie, Universitatea Titu Maiorescu, Bd. Gheorghe Sincai nr. 16, București Invatamant superior
Perioada Funcția sau postul ocupat	2016 – 2022 Cadru didactic asociat (plata cu ora) Lector universitar
Activități și responsabilități principale Nume și adresă Angajator Tipul și sectorul de activitate	Activitate didactică de laborator; efectuarea de lucrări practice pentru disciplina Chimie analitică cantitativă; Analiza instrumentală și metode de separare Facultatea de Farmacie, Universitatea Titu Maiorescu, Bd. Gheorghe Sincai nr. 16, București Invatamant superior
Perioada Funcția sau postul ocupat Activități și responsabilități principale	2006 - 2022 Cercetator științific III Activități specifice de cercetator științific III. Participare la proiecte de cercetare naționale. Domenii de cercetare: imunologie celulară și tumorală, imunoterapie, imunochimie, culturi celulare, biologie moleculară și celulară. Izolare acizi nucleici, RT-PCR. Transmiterea de semnale intracelulare, western-blotting.
Nume și adresă Angajator Tipul și sectorul de activitate	Institutul de Virusologie "Stefan S. Nicolau", Sos. Mihai Bravu, Nr. 285, Sector 3, cod 030304, București, România, www.virology.ro Sectorul cercetare
Perioada Funcția sau postul ocupat Activități și responsabilități principale	1998 - 2006 Cercetator științific Activități specifice de cercetator. Participare la proiecte de cercetare naționale. Domenii de cercetare: imunologie tumorală, imunochimie. ELISA, microscopie de fluorescență, culturi de celule primare, transmiterea de semnale induse pe celule NK.

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 Angajator Romania, www.virology.ro
 Tipul si sectorul de Sectorul cercetare
 activitate

Perioada 1995 - 1998
 Functia sau postul ocupat Asistent de cercetare
 Activitati si responsabilitati Activitati specifice de asistent de cercetare. Participare la proiecte de cercetare nationale. Domenii de
 principale cercetare: imunologie tumorală, imunochimie. Izolarea si identificarea populatiilor celulare din sangele
 periferic, analize structurale si functionale ale proprietatii citofile ale IgG umane, electroforeza.

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 Angajator Romania, www.virology.ro
 Tipul si sectorul de Sectorul cercetare
 activitate

Perioada 1991 - 1995
 Functia sau postul ocupat Asistent de cercetare cu studii medii
 Activitati si responsabilitati Activitati specifice de asistent de cercetare cu studii medii. Participare la proiecte de cercetare nationale.
 principale Domenii de cercetare: imunologie, imunochimie, purificare imunoglobuline

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 Angajator Romania, www.virology.ro
 Tipul si sectorul de Sectorul cercetare
 activitate

EDUCAȚIE ȘI FORMARE

Perioada 2013
 Calificarea / diploma obținută Studii postdoctorale
 Numele și tipul instituției de Postuniversitar - Universitatea Politehnica Bucuresti
 învățământ / furnizorului de formare

Perioada 1997 - 2005
 Calificarea / diploma obținută Diploma Doctor in stiinte exacte, specializarea chimie
 Disciplinele principale studiate / Biochimie/Biologie/Imunologie
 competențe profesionale dobândite
 Numele și tipul instituției de Universitatea Bucuresti - Facultatea de Chimie
 învățământ / furnizorului de formare

Perioada 1990 - 1995
 Calificarea / diploma obținută Diploma de licenta
 Disciplinele principale studiate / Biochimie
 competențe profesionale dobândite
 Numele și tipul instituției de Universitatea Bucuresti, Facultatea de Chimie, Specializarea Biochimie
 învățământ / furnizorului de formare
 Nivelul în clasificarea națională sau internațională Invatamant superior

COMPETENTE PERSONALE

Limba(i) maternă(e) romana

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	B2	B2	B2	B2	B2
Franceza	B1	B1	B1	B1	B1

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat
Cadrul european comun de referință pentru limbi străine

Competențe de comunicare

Capacitatea de a comunica și de a lucra în spirit de echipă; capacitatea de adaptare în medii diferite; rezistența la stres; conștiință profesională
 Experiența în planificarea, organizarea și coordonarea activităților specifice domeniului de activitate.
 Abilități de comunicare prin participarea la întâlniri, ateliere, prezentări orale și postere la conferințe naționale și internaționale

Competențe organizaționale/manageriale

Spirit de echipă, atenție distributivă, capacitatea de conducere și organizare în echipe multidisciplinare în proiecte de cercetare, stabilitate emoțională, conceperea și executarea unor proiecte de cercetare

Competențe dobândite la locul de muncă

O bună cunoaștere a tehnicilor și protocoalelor folosite în cadrul experimentelor, seriozitate, perseverența, atenție distributivă. Conceperea și executarea unor proiecte de cercetare.

Competențe informatice

Utilizarea programelor digitale - Microsoft Office (Word, Excel și Power Point), programe de statistică și grafică (GraphPad, Origin pentru prelucrarea statistică a rezultatelor și redactarea unor lucrări științifice (capitole cărți, articole) O bună seriozitate, perseverența

Alte competențe

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator independent	Utilizator independent	Utilizator independent	Utilizator independent	Utilizator independent

Niveluri: Utilizator elementar - Utilizator independent - Utilizator experimentat

Competențele digitale - Grilă de auto-evaluare

- cunoștințe de editare foto
- softuri de chimie și biologie
- cunoștințe avansate de utilizare a Microsoft Office (Word, Excel și Power Point)
- programe de statistică și grafică (GraphPad, Origin)

Permis de conducere Categoria B

INFORMATII SUPLIMENTARE
Cursuri și workshopuri

- 2021 - Take Advantage of Luminex® xMAP® technology and MILLIPLEX® kits for Multiplex Biomarker Detection, Merck, Bucharest, Romania
 2021 - Precise, handheld cell counting with Scepter™ 3.0 Cell Counter from Merck, Merck, Bucharest, Romania
 2020 - Rethink Western blotting, Merck, Bucharest, Romania
 2020 - Antibody Voyages with Merck: What's New in Antibody Technology, Merck, Bucharest, Romania
 2020 - Sensitivity you can count on with Merck ELISA and SMC™ assays for protein biomarker detection, Merck, Bucharest, Romania
 2012 - Course "Trends in Molecular Biology: from real time PCR to molecular diagnostic", Bucharest, Romania
 2012 - BD Biosciences workshop "Multicolor Cytometry Road Show", Bucharest, Romania
 2011 - BD Biosciences Course "Multiparametric acquisition and analysis on digital flow-cytometer", Bucharest, Romania
 2011 - Miltenyi Biotec Course "MACS Workflow – cell separation from tissue to molecular applications", Bucharest, Romania
 2010 - Workshop "Welcome to a More Colorful World, Welcome to More Choice", Bucharest, Romania
 2009 - BD – Training DIVA6 and FACScantoII, Bucharest, Romania
 2009 - "Cell Culture Seminar", LGC Standard, Bucharest, Romania
 2008 - BD –Follow-up FACScanto II – Bucharest, Romania
 2002 - Postuniversitar Course „Atelier de Imunologie Fundamentala” organized by Romanian Society for Immunology (SNI) and Institute „I. Cantacuzino”, Bucharest, Romania
 2000 - ENII Conference 2000 "Molecular Regulation of Lymphocyte Behaviour", Les Embiez, France
 2000 - Course Internațional "John Humphrey International Course of Immunology on Self-Tolerance and Self-Tolerance and Self-Recognition", Sinaia, Romania

- 1998 The First International Meeting of the Romanian Society of Biochemistry and Molecular Biology Bucharest, Romania
- 1997 Course International FEBS - Membrane Transport Processes and Signal Transduction, Bucharest, Romania
- 1996 - Course International CEFOR - "Le course international de biochimie", Bucharest, Romania
- 1996 - Curs International CEFOR - "Le course international de immunologie", Iassy, Romania
- 1992 - EFIS "John Humphrey Course on Tumour Immunology", Iassy, Romania
- 1988 - Romanian Society for Immunology Fellowship - IUIS International Course "The Deviated Immune response", Poiana Brasov, Romania

AFILIERI Membra a unor asociații profesionale naționale și internaționale:
a) naționale

- 1992 - prezent, membru al Societății Române de Imunologie
- 1996 - prezent, membru al Societății Române de Biochimie și Biologie Moleculară
- 2004 - prezent, membru al Societății Române de Citometrie

b) internaționale

- 1992 - prezent, membru al European Federation of Immunology Societies (EFIS)
- 1998 - prezent, membru al Federation of European Biochemical Societies (FEBS)
- 2004 - prezent, membru al Balkan Association of Immunology Societies (BAIS)

ANEXA, LISTA LUCRARI Articole publicate, rezumate, brevete, proiecte, premii

Carti și capitole de carte

- Mariana Popescu, Gabriela Costache, **Antonela Mirela Mihaila**. Chimie analitică cantitativă - Note de curs și laborator. Editura Hamangiu: Editura Universității Titu Maiorescu, București, 978-606-27-2439-9, **2024**
- Mariana Popescu, Gabriela Costache, **Mirela Antonela Mihaila**. Metode instrumentale de analiză - Note de curs și laborator. Editura Universității „Titu Maiorescu”, București, Hamangiu, 978-606-27-2326-2, 978-606-767-114-8, **2023**
- Bostan M., Ion G, **Mihaila M.**, Roman V., Constantin C., Neagu M.T. Oxidative stress player in head and neck cancer therapy response. Head and Neck and Neurological and Endocrine Cancers, vol. 5, book "Handbook of Cancer and Immunology" and "Interdisciplinary Cancer Research", Ed. Springer Nature, **2022**
- Mariana Popescu, **Mirela Antonela Mihaila**. Management farmaceutic - Baze teoretice, Editura Universității „Titu Maiorescu”, București, ISBN 978-606-767-097-4, **2022**
- Bostan M., Petrica-Matei G.G., Ion G., Radu N., **Mihaila M.**, Hainarosie R., Brasoveanu L.I., Roman V., Constantin C., Neagu M.T. Determination of Cisplatin effect on head and neck squamous cell carcinoma modulated by ERK1/2 protein kinases. Book chapter in Current Practice in Medical Science, Ed. B.P. International, **2022**
- Camelia Elena Stecoza, George Mihai Nitulescu, Constantin Draghici, Miron Teodor Caproiu, Octavian Tudorel Olaru, Marinela Bostan and **Mirela Mihaila**. Synthesis and Anticancer Evaluation of New 1,3,4-Oxadiazole Derivatives. Anticancer Drugs 2021, Editors Mary J. Meegan Niamh M O'Boyle. Open Access ISBN 978-3-0365-4348-2 (Hbk); ISBN 978-3-0365-4347-5 (PDF). Pages: 594. May **2022**. <https://doi.org/10.3390/books978-3-0365-4347-5>
- Marinela Bostan, **Mirela Mihaila**, Camelia Hotnog, Coralia Bleotu, Gabriela Anton, Viviana Roman, Lorelei I. Brasoveanu. Colorectal Cancer - from Pathogenesis to Treatment" by Luis Rodrigo, Chapter "Modulation of apoptosis in colon cancer cells by bioactive compounds", Ed. INTECH, Croatia, ISBN 978-953-51-4644-5, **2016**, <http://www.intechopen.com/books>

Articole științifice cotate ISI ca autor principal

- Stecoza, C.E., Nitulescu, G.M., Draghici, C., Caproiu, M.T., Hanganu, A., Olaru, O.T., Mihai, D.P., Bostan, M., **Mihaila.M.** Synthesis of 1,3,4 – Thiadiazole derivatives and their anticancer evaluation. Int. J. Mol. Sci. 24, x, **2023**.
- Tincu, R.; **Mihaila, M.**; Bostan, M.; Teodorescu, F.; Istrati, D.; Badea, N.; Lacatusu, I. Novel Bovine Serum Albumin-Decorated–Nanostructured Lipid Carriers Able to Modulate Apoptosis and Cell-Cycle Response in Ovarian, Breast, and Colon Tumoral Cells. *Pharmaceutics* **2023**, 15, 1125. <https://doi.org/10.3390>, **autor de corespondență**.
- Viviana Roman, **Mirela Mihaila**, Nicoleta Radu, Stefania Marineata, Carmen Cristina Diaconu and Marinela Bostan. Cell culture model evolution and its impact on improving therapy efficiency in lung cancer. *Cancers*, 15(20), 4996, **2023**, **autor de corespondență**.
- Mirela Mihaila**, Camelia Mia Hotnog, Marinela Bostan, Alexandra Cristina Munteanu, Ileana Adela Vacariu, Lorelei Irina Brasoveanu, Valentina Uivarosi. Anticancer activity of some ruthenium (III) complexes with quinolone antibiotics: In vitro cytotoxicity, cell cycle modulation, and apoptosis-inducing properties in LoVo colon cancer cell line. *Appl. Sci.*, 11(18), 8594-8613, **2021**, doi.org/10.3390/app11188594.
- Camelia Elena Stecoza, George Mihai Nitulescu, Constantin Draghici, Miron Teodor Caproiu, Octavian Tudorel Olaru, Marinela Bostan and **Mirela Mihaila**. Synthesis and Anticancer Evaluation of New 1,3,4-Oxadiazole Derivatives. *Pharmaceutics*, 14(5), 438-453, **2021**, DOI: 10.3390/ph14050438.
- Alexandra-Cristina Munteanu, Mihaela Georgiana Musat, **Mirela Mihaila**, Mihaela Badea, Rodica Olar, George Mihai Nitulescu, Lorelei Irina Brasoveanu, Valentina Uivarosi. New heteroleptic lanthanide complexes as multimodal drugs. Cytotoxicity studies, apoptosis, cell cycle analysis, DNA interactions and protein binding. *Applied Organometallic Chemistry*, 35(1), 1-22, **2021**,

- doi.org/10.1002/aoc.6062, **principal co-author**.
- Marinela Bostan, Georgiana Gabriela Petrica-Matei, Gabriela Ion, Nicoleta Radu, **Mirela Mihaila**, Razvan Hainarosie, Lorelei Irina Brasoveanu, Viviana Roman, Carolina Constantin, Monica Teodora Neagu. Cisplatin effect on head and neck squamous cell carcinoma cells is modulated by ERK1/2 protein kinases. *Experimental and Therapeutic medicine Journal*, 18(6), 5041-5051, **2019**, doi: 10.3892/etm.2019.8139, **All the authors contributed equally**.
 - Botezatu Anca, Iancu Iulia V., Plesa Adriana, Manda Dana, Popa Oana, Bostan Marinela, **Mihaila Mirela**, Albuлесcu Adrian, Fudulu Alina, Vladoiu Susana V., Huica Irina, Dobrescu Ruxandra, Anton Gabriela, Badiu Corin. Methylation of tumour suppressor genes associated with thyroid cancer. *Cancer Biomarkers*, 25(1), 53-65, **2019**, doi: 10.3233/CBM-182265, **All the authors contributed equally**.
 - Georgiana Gabriela Petrica-Matei, Viviana Roman, **Mirela Mihaila**, Camelia Mia Hotnog, Lorelei Irina Brasoveanu, Marinela Bostan. Role of p38-mitogen-activated protein kinase in modulation of response to therapy in FaDu human pharyngeal carcinoma cell line. *Romanian Biotechnological Letters*, 24(1), 118-128, **2019**, doi: 10.25083/rbl/24.1/118.128, **coautor principal**.
 - Camelia Mia Hotnog, **Mirela Mihaila**, Liliana Puiu, Anca Botezatu, Viviana Roman, Iulia Dana Popescu, Marinela Bostan, Lorelei Irina Brasoveanu. Modulation of the interplay between p53, ICAM-1 and VEGF in drug-treated LoVo colon cancer cells. *Romanian Biotechnological Letters*, 24(2), 261-270, **2019**, doi: 10.25083/Rbl/24.2/261.270, **coautor principal**.
 - Mirela Mihaila**, Marinela Bostan, Dan Hotnog, Mariana Ferdes, Lorelei I. Brasoveanu. Real-time analysis of quercetin, resveratrol and/or doxorubicin effects in MCF-7 cells. *Romanian Biotechnological Letters*, 18(2), 8106-8114, **2013**.

Articole stiintifice cotate ISI in calitate de coautor

- Radu, C.; Olteanu, A.A.; Aramă, C.C.; **Mihăilă, M.**; Uivaros, i, V. Investigating the Effect of Cyclodextrin Nanosponges and Cyclodextrin-Based Hydrophilic Polymers on the Chemical Pharmaceutical and Toxicological Profile of Al(III) and Ga(III) Complexes with 5-Hydroxyflavone. *Appl. Sci.* **2024**, 14, 5441, doi.org/10.3390/app14135441.
- Cocos, F.I.; Anuta, V.; Popa, L.; Ghica, M.V.; Nica, M.A.; **Mihăilă, M.**; Fierăscu, R.C.; Trică, B.; Nicolae, C.A.; Dinu-Pirvu, C.E. Development and Evaluation of Docetaxel-Loaded Nanostructured Lipid Carriers for Skin Cancer Therapy. *Pharmaceutics* **2024**, 16, 960. doi.org/10.3390/pharmaceutics16070960.
- Bostan, I.-S.; **Mihaila, M.**; Roman, V.; Radu, N.; Neagu, M.T.; Bostan, M.; Mehedintu, C. Landscape of Endometrial Cancer: Molecular Mechanisms, Biomarkers, and Target Therapy. *Cancers* **2024**, 16, 2027, doi.org/10.3390/cancers16112027.
- T.A. Iordache, N. Badea, **M. Mihaila**, S. Crisan, A.L. Pop, I. Lacatusu. Polygonum cuspidatum Loaded Nanostructured Lipid Carriers for Dual Inhibition of TNF- α and IL-6 Cytokines and Free Radical Species. *Materials*, 16(9), 3492, **2023**.
- Viviana Roman, **Mirela Mihaila**, Nicoleta Radu., Stefania Marineata, Carmen Cristina Diaconu and Marinela Bostan. Cell culture model evolution and its impact on improving therapy efficiency in lung cancer. *Cancers* **2023**, 15(20), 4996, doi.org/10.3390/cancers15204996.
- Ivan B.C., Barbuceanu S.F., Hotnog C.M., Olaru O.T., Anghel A.I., Ancuceanu R.V. **Mihaila M.A.**, Brasoveanu L.I., Shova S., Draghici C., et al. Synthesis, Characterization and Cytotoxic Evaluation of New Pyrrolo[1,2-b]pyridazines Obtained via Mesoionic Oxazolo-Pyridazinones. *Int. J. Mol. Sci.*, 24, 11642, **2023**.
- A.M. Maciucă, A.C. Munteanu, **M. Mihaila**, M. Badea, R. Olar, G. M. Nitulescu, C. V. A. Munteanu And V. Uivarosi. A Study on Repositioning Nalidixic Acid via Lanthanide Complexation: Synthesis, Characterization, Cytotoxicity and DNA/Protein Binding Studies. *Pharmaceutics*, 15(8), 1010, **2022**, doi.org/10.3390/ph15081010.
- B.C. Ivan, S.F. Barbuceanu, C.M. Hotnog, A. I. Anghel, R.V. Ancuceanu, **M. A. Mihaila**, L.I. Brasoveanu, S. Shova, C. Draghici, O.T. Olaru, G.M. Nitulescu, M. Dinu, F. Dumitrascu. New Pyrrole Derivatives as Promising Biological Agents: Design, Synthesis, Characterization, In Silico, and Cytotoxicity Evaluation. *Int. J. Mol. Sci.*, 23(16), 8854, **2022**, doi.org/10.3390/ijms23168854.
- Marinela Bostan, **Mirela Mihaila**, Georgiana Gabriela Petrica-Matei, Nicoleta Radu, Razvan Hainarosie, Cristian Dragos Stefanescu, Viviana Roman, Carmen Cristina Diaconu. Resveratrol modulation of apoptosis and cell cycle response to cisplatin in head and neck cancer cell lines. *Int. J. Mol. Sci.*, 22(12), 6322-6342, **2021**, doi.org/10.3390/ijms22126322.
- Teodora-Alexandra Iordache, Nicoleta Badea, **Mirela Mihaila**, Simona Crisan, Anca Lucia Pop, Ioana Lacatusu. Challenges in coopted hydrophilic and lipophilic herbal bioactives in the same nanostructured carriers for effective bioavailability and anti-inflammatory action. *Nanomaterials*, 11(11), 3035-3053, **2021**, doi: 10.3390/nano11113035.
- Ioana Lacatusu, Teodora Alexandra Iordache, **Mirela Mihaila**, Dan Eduard Mihaiescu, Anca Lucia Pop, Nicoleta Badea. Multifaced role of dual herbal principles loaded-lipid nanocarriers in providing high therapeutic efficacy. *Pharmaceutics*, 13(9), 1511-1534, **2021**, doi.org/10.3390/pharmaceutics13091511.
- Ana-Madalina Maciucă, Alexandra-Cristina Munteanu, **Mirela Mihaila**, Mihaela Badea, Rodica Olar, George Mihai Nitulescu, Cristian V. A. Munteanu, Marinela Bostan, Valentina Uivarosi. Rare-Earth Metal Complexes of the Antibacterial Drug Oxolinic Acid: Synthesis, Characterization, DNA/Protein Binding and Cytotoxicity Studies. *Molecules*, 25, 5418, **2020**, doi.org/10.3390/molecules25225418.
- Iancu Iulia V., Botezatu Anca, Plesa Adriana, Huica Irina, Fudulu Alina, Albuлесcu Adrian, Bostan Marinela, **Mihaila Mirela**, Grancea Camelia, Manda Dana Alice, Dobrescu Ruxandra, Vladoiu Susana Vilma, Anton Gabriela, Badiu Corin Virgil. Alterations of regulatory factors and DNA methylation pattern in thyroid cancer. *Cancer Biomarkers*, 28(2), 255-268, **2020**, doi: 10.3233/CBM-190871.
- I. Lacatusu, N. Badea, G. Badea, **M. Mihaila**, C. Ott, R. Stan, A. Meghea. Advanced bioactive lipid nanocarriers loaded with natural and synthetic anti-inflammatory actives. *Chemical Engineering Science*, 200, 113-126, **2019**, doi: 10.1016/j.ces.2019.01.044.
- Alexandra-Cristina Munteanu, Mihaela Badea, Rodica Olar, Luigi Silvestro, **Mirela Mihaila**, Lorelei Irina Brasoveanu, Mihaela Georgiana Musat, Adrian Andries, Valentina Uivarosi. Cytotoxicity studies, DNA interaction and protein binding of new Al (III), Ga (III) and In (III) complexes with 5-hydroxyflavone. *Applied Organometallic Chemistry*, 32(12), 17, **2018**, doi: 10.1002/aoc.4579.
- Gabriela Badea, Nicoleta Badea, Lorelei I. Brasoveanu, **Mirela Mihaila**, Raluca Stan, Daniela Istrati, Teodora Balaci, Ioana Lacatusu. Naringenin improves the sunscreen performance of vegetable nanocarriers. *New Journal of Chemistry*, 41, 480-492, **2017**, doi: 10.1039/C6NJ02318E.
- I. Lacatusu, N. Badea, G. Badea, O. Oprea, **M. A. Mihaila**, D. A. Kaya, R. Stan, A. Meghea. Lipid nanocarriers based on natural oils with high activity against oxygen free radicals and tumor cell proliferation. *Materials Science and Engineering*, 56, 88-94, **2015**, doi:

10.1016/J.MSEC.2015.06.019.

18. Dan Hotnog, **Mirela Mihaila**, Anca Botezatu, Georgiana Gabriela Matei, Camelia Hotnog, Gabriela Anton, Marinela Bostan, Lorelei I. Brasoveanu. Genistein potentiates the apoptotic effect of 5-fluorouracyl in colon cancer cell lines. *Romanian Biotechnological Letters*, 18(6), 255-265, **2013**.
19. G. Mota, I. Moldovan, A. Calugaru, **M. Hirt**, E. Kozma, C. Galatiuc, L. Brasoveanu, G. Boltz-Nitulescu. Interaction of human immunoglobulin G with CD16 on natural killer cells: ligand clearance, Fcγ3R turnover and effects of metalloproteinases on Fcγ3R-mediated binding, signal transduction and killing, *Scandinavian Journal of Immunology*, 59(3), 278-284, **2004**, doi: 10.1111/j.0300-9475.2004.01398.x.
20. G. Mota, M. Manciu, E. Kozma, I. Popescu, **M. Hirt**, E. J. Jarolim, A. Calugaru, C. Galatiuc, T. Regalia, D. Tamandl, A. Spittler, G. Boltz-Nitulescu. Human NK cells express Fc receptors for IgA which mediate signal transduction and target cell killing. *European Journal of Immunology*, 33(8), 2197-2205, **2003**, doi: 10.1002/eji.200323534.
21. M. Bostan, C. Galatiuc, **M. Hirt**, M. C. Constantin, L. I. Brasoveanu, D. Iordachescu. Phospholipase A2 modulates respiratory burst developed by neutrophils in patients with rheumatoid arthritis. *Journal of Cellular and Molecular Medicine*, 7(1), 57-66, **2003**, doi: 10.1111/j.1582-4934.2003.tb00203.x.

Articole *in extenso* in reviste BDI

1. Maria Monica Vasilescu, **Mirela Mihaila**, Camelia Mia Hotnog, Marieta Panait, Daniela Glavan, Iulia Dana Popescu, Maria Iuliana Gruia, Marinela Bostan, Lorelei Irina Brasoveanu. Role of topoisomerases during modulation of drug sensitivity in resistance-induced variants of MDA-MB-231 breast cancer cell line. *Romanian Biotechnological Letters*, doi: 10.26327/RBL2019.267, **2019**, *principal co-author*
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Brevete:

1. **Brevet OSIM nr. a2020 00446 / 27.07.2020:** Camelia Stecoza, Mihaila Mirela, Marinela Bostan. Derivati de 2-aryl(heteroaril)-5-[2-(fenilmetil)fenil]-1,3,4-oxadiazol, compozitie farmaceutica ce ii contine si utilizarea lor ca agenti antitumorali
2. **Brevet OSIM nr. A00944/29.11.2016:** Uivarosi V., Arama C.C., Barbuceanu S.F., Brasoveanu L.I., Mihaila M.A., Badea E.M., Olar R.M. Complecși de asociere hidroxipropil-b-ciclodextrina/compusi de ruteniu si utilizare terapeutica, aprobat in 2017

Proiecte de cercetare/dezvoltare pe baza de contract/grant (director grant/membru in echipa):
Contract / grant international / grant finantare europeana - membru in echipa de cercetare:

1. POC/AP 1/1.2.1/Proiect Tehnologic Inovativ/120906: "Realizarea unui supliment alimentar inovativ pentru sanatatea femeii la menopauza", coordonator AC HELCOR S.R.L., 2020 – 2023
2. Contract nr. 433/21.12.2012: "Modernizarea unui centru pentru studiul oncogenezei si al utilizarii oncolizei virale ca strategie terapeutica", coordonator Institutul de Virusologie "Stefan S. Nicolau", 2012 – 2015

3. Program COST 844: "Apoptosis and programmed cell death: molecular mechanism and application in biotechnology and agriculture", coordonator proiect Universitatea Bucuresti, 2000 – 2004
4. Contract CNCSIS 70% finantat de FMI: "Apoptoza ca factor de reglare a ciclului celular în carcinoamele renale si mamare umane", 1999 – 2002

Contract / grant national - director / responsabil proiect:

1. PN-III-P2-2.1-PED2019-5143, 383PED: "Dezvoltarea unor sisteme de nanoparticule antitumorale, bazate pe noi complexe metalice", director de proiect, 2020 – 2022
2. Program PCCA contract 136/2012 (Biotehnologie): "Conceperea si dezvoltarea unor sisteme de transport si cedare pentru noi compusi de ruteniu cu actiune antitumorală (RuSYST)", coordonator proiect UMF Bucuresti, responsabil proiect, 2012 – 2016
3. Grant al Academiei Romane: "Transmiterea de semnale intracelulare in urma stimulării receptorului Fc μ de pe suprafata celulelor NK", director proiect, 2003 – 2004

Contract / grant national - membru in echipa de cercetare:

1. PN-II-PT-PCCA-2013-4-1761: "Bio-produse dermato-cosmetice pe baza de uleiuri vegetale si fitocomplecsi cu actiune anti-acneica", coordonator proiect Universitatea Bucuresti, Facultatea de Chimie, 2013 – 2016
2. Program PCCA contract 135/2012: "Markeri moleculari ca predicatori ai evolutiei post-terapeutice in managementul evolutiei si prognozei carcinomului tiroidian diferentiat" (GENITIR), responsabil proiect IVN, 2012 – 2016
3. Proiect PNII 42-173: "Studiul imunogenomic al expresiei si rolului functional al unor molecule de adeziune celulara (CAM) asociate cancerului colorectal", director proiect IVN, 2008 – 2011
4. Program PNII contract 42/144 (Sanatate): „Identificarea si caracterizarea unei subpopulatii de celule cu proprietati de celule stem tumorale in hepatoame si cancer esofagiene si corelarea cu mecanismele de rezistenta la tratament”, director proiect IOB, 2008 – 2011
5. Program PNCDII contract 62078/2008: "Biomarkeri si agenti de chimiopreventie in limfoproliferarile cornice", director proiect IVN, 2008 – 2011
6. Program PNCDII contract nr. 41-084/2007 (Sanatate): "Utilizarea markerilor genetici pentru stabilirea unor terapii tinite, in cancerul orofaringian și laringian, la om", responsabil IVN, 2007 – 2010
7. Program CEEEX tip P-CD 182/2006, (profil Biomedical): "Studiul dinamicii de expresie a unor gene implicate in controlul ciclului celular si apoptoza, in evolutia cancerului de laringe si orofaringe, la om", responsabil IVN, 2006 – 2008
8. Program CEEEX contract 123/2006 (Biomedical): "Modularea expresiei unor markeri biologici ai progresiei tumorale si corelarea cu rezistenta la chimioterapie in cancerele mamare si ovariene", director proiect IVN, 2006 – 2008
9. Program CEEEX contract 77/2006 (Biomedical): "Studii la nivel celular si molecular privind activitatile biologice ale curcuminei in vederea evaluării potentialului terapeutic", director proiect Universitatea Bucuresti, Facultatea de Biologie, responsabil parteneriat IVN, 2006 – 2008
10. Program CEEEX contract 82/2006 (Biotehnologie): "Modularea apoptozei induse de micotoxine in linii celulare", director proiect IVN, 2006 – 2008
11. Grant CNCSIS Cod 865/2006 (tip A): "Noi tinte terapeutice in artrita reumatoida: Implicarea MAP kinazelor in reglarea functiilor leucocitelor polimorfonucleare", director proiect IVN, 2006 – 2008
12. Proiect CEEEX contract 26/2005: „Biomolecule radiomarcate pentru tratamentul tintit al cancerului si inhibarea angiogenezei”, Director proiect IFIN, responsabil parteneriat IVN, 2005 – 2008
13. Proiect CEEEX 6/2005 tip P-CD (profil Biomedical): "Determinari sanguine imunologice si genotoxice in vederea stabilirii valorilor statistic normale in populatia adulta din Romania", responsabil parteneriat IVN, 2005 – 2007
14. Grant CNCSIS (tip A): "Studiul modularii functiilor celulelor NK mediate de receptorii Fc γ prin concentratii mari de IgG", director proiect IVN, 2004 – 2006
15. PNCDI 179/2004 Viasan: "Modularea caili apoptotice de catre substante biologice active in terapia cancerului", director program dr. Viviana Roman, 2004 – 2006
16. Grant AR: CNCSIS (tip A): Studiul modularii functiilor celulelor NK mediate de receptorii Fc γ prin concentratii mari de IgG", director proiect IVN, 2004 – 2006
17. Program PNCDI BIOTECH: "Apoptoza in hepatocite si poluarea cu metale grele", director proiect IVN, 2004 – 2006
18. Program Viasan contract 235/2003: "Mecanisme celulare si moleculare implicate in rezistenta celulelor tumorale la imunoterapie", director proiect IVN, 2003 – 2005
19. Grant CNCSIS (tip AT): "Molecule de adeziune implicate in mecanisme moleculare si celulare ce contribuie la progresia tumorală", director proiect IVN, 2003 – 2005
20. PNCDI – Biotech: "Tehnici moderne utilizate in studiul mecanismelor celulare si moleculare implicate in progresia tumorală", director proiect IVN, 2003 – 2005
21. Grant al Academiei Romane: "Studiul efectelor factorilor sub- si supra-liminari in medierea functiilor celulelor NK prin implicarea receptorilor membranari", director proiect IVN, 2003 – 2004
22. Grant al Academiei Romane: "Modularea ciclului celular in limfoproliferarile cronice", director proiect IVN, 2003 – 2004
23. Program Biotech: "Tinte genetice in cancerul mamar", director dr. Liliana Puiu, Institutul Oncologic Bucuresti, responsabil parteneriat IVN, 2002 – 2005
24. Program Viasan contract 169/2002: "Cercetari privind implicarea unor molecule de adeziune, in corelatie cu markeri tumoralii si factori imunologici, in progresia tumorală si metastazarea cancerului mamar", 2002 – 2005
25. Grant al Academiei Romane: "Mecanisme celulare si moleculare implicate in rezistenta celulelor tumorale la actiunea complementului", director proiect IVN, 2001 – 2003
26. Consortiu Program Orizont 2000: "Studiul mecanismelor imunoreglatoare ale IgG pentru administrare intravenoasa (IVIG) la copii cu purpura trombocitopenica idiopatica (ITP)", director proiect IVN, 2000 – 2002

27. Grant ANSTI: "Studiul comparativ al protecției (CD59) celulare și solubile în diverse linii celulare tumorale", director proiect IVN, 1999 – 2000
28. Grant ANSTI tip C: "Evaluarea nivelurilor protecției solubile (sCD59) prin teste imunochimice și studiul rolului funcțional al sCD59 purificate în anumite tipuri de cancer uman", director proiect IVN, 1999 – 2001
29. Grant al Academiei Române: "Caracterizarea protecției (CD59) asociate membranei celulare și a formei sale solubile în cancerul mamar", director proiect IVN, 1998
30. Grant al Academiei Române: "Studiul rolului funcțional al formelor solubile ale CD59, CD55 și CD46, comparativ cu al formelor membranare, în liza complemento-mediata a celulelor tumorale mamare", director proiect IVN, 1998 – 2000
31. Grant al Academiei Române: "Studiul comparativ al rolului CD59, CD55 și CD46 în protejarea celulelor tumorale mamare față de acțiunea complementului omolog", director proiect IVN, 1999

Proiecte educative și de formare continuă:

1. POSDRU/89/1.5/S/52432: Școala postdoctorală de interes național "Biotehnologii aplicate cu impact în bioeconomia românească" (SPD-BIOTECH), 2012 - 2013
2. POSDRU/81/3.2/S/59616: Specializare pentru performanță, eficacitate și răspuns în domeniul transplantului de organe (SPER), 2010 – 2012
3. Proiect POSDRU/81/3.2/S/58819: Sistem de formare profesională a personalului medical în domeniul noilor tehnologii din sistemul de sănătate (Diagnostic molecular) -TDM, 2007 - 2013

Premii

1. B.C. Ivan, F. Dumitrascu, C. Draghici, C.M. Hotnog, **M.A. Mihaila**, L.I. Brasoveanu, S. Shova And S.F. Barbuceanu. Synthesis of some new pyridazines derivatives with potential antitumoral activity. Lucrare selectionată și premiată pentru prezentare orală. Congresul Universității de Medicină și Farmacie "Carol Davila" București, 10 - 12 nov. **2022**.
2. **Mirela Mihaila**, Camelia Mia Hotnog, Marinela Bostan, Alexandra Cristina Munteanu, Ileana Adela Vacaroiu, Lorelei Irina Brasoveanu, and Valentina Uivarosi. Anticancer Activity of Some Ruthenium (III) Complexes with Quinolone Antibiotics: In Vitro Cytotoxicity, Cell Cycle Modulation, and Apoptosis-Inducing Properties in LoVo Colon Cancer Cell Line. Appl. Sci. 2021, 11, 8594. <https://doi.org/10.3390/app11188594>. IF=2.679 (premiat UEFISCDI **2021**)
3. Marinela Bostan, **Mirela Mihaila**, Georgiana Gabriela Petrica-Matei, Nicoleta Radu, Razvan Hainarosie, Cristian Dragos Stefanescu, Viviana Roman and Carmen Cristina Diaconu. Resveratrol Modulation of Apoptosis and Cell Cycle Response to Cisplatin in Head and Neck Cancer Cell Lines. Int. J. Mol. Sci. 2021, 22, 6322. <https://doi.org/10.3390/ijms22126322>. IF= 5.923 (articol premiat UEFISCDI **2021**)
4. Alexandra-Cristina Munteanu, **Mirela Mihaila**, Joseph Cowell, Gilles Gasser, Valentina Uivarosi. Osmium (II) octahedral complexes featuring orotic acid: anticancer activity and DNA/protein interaction studies. 1st OncoHub Conference, **2021**
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Membru in comitete de organizare de manifestari stiintifice:

1. A 3-a Conferinta a Asociatiei Romane de Imunodermatologie, a 48-a Conferinta a Societatii de Imunologie din Romania, 2019
2. A 42-a Conferinta anuala de Imunologie, Bucuresti 27-29 Septembrie 2012

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