

Universitatea *Titu Maiorescu* din București
Facultatea de Farmacie
Departamentul Farmacie
Concurs pentru ocuparea postului de CONFERENȚIAR UNIVERSITAR, poziția 13
Disciplinele postului: Biochimie farmaceutică, Chimie analitică și instrumentală
Domeniul FARMACIE
Post publicat în Monitorul Oficial al României nr. 396, Partea a III-a din 28 noiembrie 2024

LISTA DE LUCRĂRI¹
a candidatei MIHĂILĂ (HIRT) MIRELA ANTONELA

1. Lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări menționate mai jos (cu referințe bibliografice complete):

- R1. Tincu, R.; **Mihaila, M.**; Bostan, M.; Istrati, D.; Badea, N.; Lacatusu, I. Hybrid AlbuminDecorated Lipid-NanocarrierMediated Delivery of PolyphenolRich Sambucus nigra L. in a Potential Multiple Antitumoural Therapy. *Int. J. Mol. Sci.*, 25, 11206, **2024**, **IF = 4.9**, doi.org/10.3390/ijms252011206, **autor corespondent**
- R2. 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, 17476, **2023**, **IF = 4.9**, doi.org/10.3390/ijms242417476
- R3. Tincu, R.; **Mihaila, M.**; Bostan, M.; Teodorescu, F.; Istrati, D.;Badea, N.; Lacatusu, I. Novel BovineSerum Albumin-Decorated–Nanostructured Lipid Carriers Ableto Modulate Apoptosis andCell-Cycle Response in Ovarian,Breast, and Colon Tumoral Cells. *Pharmaceutics*, 15, 1125, **2023**, **IF = 4.9**, doi.org/10.3390, **autor corespondent**
- R4. 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**, **IF = 4.5**, doi.org/10.3390/cancers15204996, **autor corespondent**
- R5. **Mirela Mihaila**, Camelia Mia Hotnog, Marinela Bostan, Alexandra Cristina Munteanu, Ileana Adela Vacaroiu, 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**, **IF = 2.838**, doi.org/10.3390/app11188594
- R6. 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**, **IF = 5.215**, doi.org/10.3390/ph14050438
- R7. 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*, vol. 35(1), 1-22, **2021**, **IF = 4.105**, **principal co-author**, doi.org/10.1002/aoc.6062
- R8. 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**, **IF = 1.785**, doi: 10.3892/etm.2019.8139, **All the authors contributed equally**
- R9. Botezatu Anca, Iancu Iulia V., Plesa Adriana, Manda Dana, Popa Oana, Bostan Marinela, **Mihaila Mirela**, Albulescu 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**, **IF - 3.436**, doi: 10.3233/CBM-182265, **All the authors contributed equally**
- R10. 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**, **IF = 0.765**, doi: 10.25083/Rbl/24.2/261.270, **principal co-author**
- R11. 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

¹ Se prezintă obligatoriu și în format PDF, obținut prin *conversie* a fișierului Word sau Excel, cu semnătura în clar, fără semnătura olografă (nu scanat).

therapy in FaDu human pharyngeal carcinoma cell line. Romanian Biotechnological Letters, 24(1), 118-128, **2019, IF - 0.765**, doi: 10.25083/rbl/24.1/118.128, **principal co-author**

R12. **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, IF = 0.351**.

2. Teza/tezele de doctorat:

T1. "Utilizarea modificarilor chimice si a peptidelor sintetice in caracterizarea unor functii ale imunoglobulinelor umane", coordonator stiintific Prof. Dr. Ion Baciu, Universitatea Bucuresti, Facultatea de Chimie, 2005

3. Brevete de invenție și alte titluri de proprietate intelectuală (2 brevete):

B1. **Cerere brevet OSIM nr. a2020 00446 / 27.07.2020**: Camelia Stecoza, **Mihaila Mirela**, Marinela Bostan. Derivati de 2-aril(heteroaril)-5-[2-(feniltiometil)fenil]-1,3,4-oxadiazol, compozitie farmaceutica ce ii contine si utilizarea lor ca agenti antitumorali

B2. **Cerere 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. Complecsi de asociere hidroxipropil-b-ciclodextrina/compusi de ruteniu si utilizare terapeutica

4. Cărți de specialitate și capitole în cărți de specialitate (cu referințe bibliografice complete) (8 carti):

C1. **Mirela Antonela Mihaila**, Mariana Popescu. Biochimie farmaceutică. Editura Hamangiu: Editura Universitatii Titu Maiorescu, Bucuresti, 978-606-767-127-8, **2025**, *in press* conform adeverinței nr. 170/10.01.2025

C2. Mariana Popescu, Gabriela Costache, **Antonela Mirela Mihaila**. Chimie analitica cantitativa - Note de curs si laborator. Editura Hamangiu: Editura Universitatii Titu Maiorescu, Bucuresti, 978-606-27-2439-9, **2024**

C3. Mariana Popescu, Gabriela Costache, **Mirela Antonela Mihaila**. Metode instrumentale de analiza - Note de curs si laborator. Editura Universitatii „Titu Maiorescu”, Bucuresti, Hamangiu, 978-606-27-2326-2, 978-606-767-114-8, **2023**

C4. 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**

C5. 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**

C6. 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>

C7. Mariana Popescu, **Mirela Antonela Mihaila**. Management farmaceutic - Baze teoretice, Editura Universitatii „Titu Maiorescu”, Bucuresti, ISBN 978-606-767-097-4, **2022**

C8. 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>

5. Articole/studii in extenso în reviste de specialitate (cu referințe bibliografice complete) (20 articole):

A1. Cocos, F.I.; Anuta, V.; Popa, L.; Ghica, M.V.; Nica, M.A.; **Mihăilă, M.**; Fierăscu, R.C.; Trică, B.; Nicolae, C.A.; Dinu-Pîrvu, C.E. Development and Evaluation of Docetaxel-Loaded Nanostructured Lipid Carriers for Skin Cancer Therapy. Pharmaceutics, 16, 960, **2024, IF = 4.9**, doi.org/ 10.3390/pharmaceutics16070960

A2. 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, **IF = 2.5**, doi.org/10.3390/app14135441

A3. Bostan, I.-S.; **Mihaila, M.**; Roman, V.; Radu, N.; Neagu, M.T.; Bostan, M.; Mehedinu, C. Landscape of Endometrial Cancer: Molecular Mechanisms, Biomarkers, and Target Therapy. Cancers **2024**, 16, 2027, **IF = 4.5**, doi.org/10.3390/cancers16112027

- A4. 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**, **IF = 3.1**, doi.org/10.3390/ma16093492
- A5. 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**, **IF = 4.9**, doi.org/10.3390/ijms241411642
- A6. 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. *Pharmaceuticals*, 15(8), 1010, **2022**, **IF = 5.4**, doi.org/10.3390/ph15081010
- A7. 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**, **IF = 5.6**, doi.org/10.3390/ijms23168854
- A8. 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**, **IF = 5.719**, doi: 10.3390/nano11113035
- A9. 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**, **IF = 4.412**, doi.org/10.3390/molecules25225418
- A10. 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**, **IF = 6.321**, doi.org/10.3390/pharmaceutics13091511
- A11. 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**, **IF = 5.924**, doi.org/10.3390/ijms22126322
- A12. Iancu Iulia V., Botezatu Anca, Plesa Adriana, Huica Irina, Fudulu Alina, Albuiescu Adrian, Bostan Marinela, **Mihaila Mirela**, Grancea Camelia, Manda Dana Alice, Dobrescu Ruxandra, Vladioiu 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**, **IF = 4.388**, doi: 10.3233/CBM-190871
- A13. 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**, **IF = 3.871**, doi: 10.1016/j.ces.2019.01.044
- A14. 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**, **IF = 3.259**, doi: 10.1002/aoc.4579
- A15. 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**, **IF = 3.201**, doi: 10.1039/C6NJ02318E
- A16. 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**, **IF = 2.647**, doi: 10.1016/J.MSEC.2015.06.019
- A17. 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-fluorouracil in colon cancer cell lines. *Romanian Biotechnological Letters*, 18(6), 255-265, **2013**, **IF = 0.351**
- A18. 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, Fc γ RIIIA turnover and effects of metalloproteinases on Fc γ RIIIA-mediated binding, signal transduction and killing. *Scandinavian Journal of Immunology*, 59(3), 278-284, **2004**, **IF = 1.912**, doi: 10.1111/j.0300-9475.2004.01398.x
- A19. G. Mota, M. Manciuă, 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**, **IF = 4.536**, doi: 10.1002/eji.200323534

A20. 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**, IF = 1.694, doi: 10.1111/j.1582-4934.2003.tb00203.x

6. Articole in extenso in reviste BDI (12 articole):

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**
2. Maria Monica Vasilescu, Camelia Mia Hotnog, Marieta Panait, Maria Iuliana Gruia, Marinela Bostan, **Mirela Mihaila**, Lorelei Irina Brasoveanu. Cross-resistance to Adriablastin and Topotecan in drug resistant HeLa cell sublines, Romanian Biotechnological Letters, doi: 10.26327/RBL2019.268, **2019**, **principal co-author**
3. Daniela Glavan, Camelia Mia Hotnog, Valentina Negoita, Maria Monica Vasilescu, Maria Iuliana Gruia, Lorelei Irina Brasoveanu, **Mirela Mihaila**. Drug modulation of soluble biomarkers and oxidative stress in LLC-WRC 256 cell line: role in cell proliferation and angiogenesis. Romanian Biotechnological Letters, doi: 10.26327/RBL2019.270, **2019**
4. Daniela Glavan, Camelia Mia Hotnog, Valentina Negoita, **Mirela Mihaila**, Lorelei Irina Brasoveanu, Maria Iuliana Gruia. Expression of soluble biomarkers associated to cell proliferation, angiogenesis and oxidative stress in rats bearing Walker tumors. Romanian Biotechnological Letters, doi: 10.26327/RBL2019.271, **2019**
5. Camelia Hotnog, **Mirela Mihaila**, Marieta Panait, Georgiana Gabriela Petrica-Matei, Viviana Roman, Maria Iuliana Gruia, Marinela Bostan, Lorelei I. Brasoveanu. Resveratrol modulates oxidative stress as well as apoptosis in drug-treated SW1116 colon cancer cells. Roum. Arch Microbiol. Immunol., 76(1), 41-49, january-march, **2017**
6. Dan Hotnog, **Mirela Mihaila**, Iulia Virginia Iancu, Georgiana Gabriela Matei, Camelia Hotnog, Gabriela Anton, Marinela Bostan, Lorelei I. Brasoveanu. Resveratrol modulates apoptosis in 5-fluorouracyl treated colon cancer cell lines. Roum. Arch. Microbiol. Immunol., 72(4), 255-265, **2013**
7. L. I. Brasoveanu, **M. Hirt**, G. Matei, M. Bostan, L. Puiu. Stimuli modulation of apoptosis and proliferation through cell cycle phases in colon cancer cell lines. Proceedings of the 2nd European Congress of Immunology. Editors Reinhold E. SchmidtMEDIMOND, 127-130, **2009**
8. M. Bostan, **M. Hirt**, G. G. Matei, St. Marineata, L. I. Brasoveanu. The role of inflammatory factors in the regulation of neutrophil function in rheumatoid arthritis. Studies and researches of Virology, Romanian Academy, 37(1), 41-49, **2007**
9. Cecilia Galatiuc, **Mirela Hirt**, Marinela Bostan. The activating and inhibitory signals in regulating natural cytotoxic function. Studies and researches of Virology, Romanian Academy, 37(2), 75-83, **2007**
10. **M. Hirt**, I. Baciu, C. Galatiuc, M. Bostan, L. I. Brasoveanu. Characterization of human serum immunoglobulins using specific agents with different chemical modifications. Studies and researches of Virology, Romanian Academy, 2(36), 121-132, **2006**
11. M. Bostan, S. Marineata, **M. Hirt**, L. I. Brasoveanu. Study of methotrexate combination - leflunomide using in rheumatoid arthritis. Studies and researches of Virology, Romanian Academy, 1(36), 35-45, **2006**
12. Bostan, M.C. Constantin, A. Nicolau, **M. Hirt**, C. Galatiuc, I. Matei, L.I. Brasoveanu, D. Iordachescu. Study of chemotactic activity developed by neutrophils from rheumatoid arthritis patients. Rom. Arch. of Microbiol. and Immunol., 61(4), 243-258, **2002**

7. Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate (cu referințe bibliografice complete) (14 publicații):

- P1. Botezatu, A.; Fudulu, A.; Iancu, I.V.; Bostan, M.; **Mihaila, M.**; Albuiescu, A.; Diaconu, C.C.; Anton, G.; Plesa, A. Assessment of HPV16 viral oncogenes' role in genome-wide pattern deposition of MBD2/3 components of NuRD nucleosome remodeling complex. FEBS OPEN BIO, vol. 12(1), 164, **2022**
- P2. Mirela Dumitru, Maria Iuliana Gruia, Anca Botezatu, **Mirela Mihaila**, Camelia Mia Hotnog, M. Hortopan, Marieta Elena Panait, Gabriela Anton, Lorelei Irina Brasoveanu. HER2 Ile655Val polymorphism, EGFR expression and cellular proliferation in urinary bladder carcinomas. Annals of Oncology, vol. 30 (Supplement 7), **2019**, Conference: Molecular Analysis for Personalised Therapy Congress, London, UK, doi: 10.1093/annonc/mdz413.078
- P3. Lorelei Irina Brasoveanu, D. Hotnog, Camelia Mia Hotnog, Marinela Bostan, Georgiana Matei, Maria Iuliana Gruia, **Mirela Mihaila**. Immunomodulation induced by resveratrol or genistein on proliferation and apoptosis of tumour colon cells. March **2014**, Journal for ImmunoTherapy of Cancer 2 (Suppl 2):P13
- P4. Dumitru M., Gruia M. I., Botezatu A., **Mihaila M.**, Hotnog C. M., Hortopan M., Anton G., Brasoveanu L. I.. HER2 genotypes and cell proliferative activity in urinary bladder carcinomas. European Urology

- Supplements, 13(7), 77, **2014**, SEEM 2014 EAU 10th South Eastern European Meeting, Belgrade, Serbia, doi: 10.1016/S1569-9056(14)61666-3
- P5. Lorelei I. Brasoveanu, D. Hotnog, Camelia Hotnog, Marinela Bostan, **Mirela Mihaila**. Modulation of genistein- and resveratrol-induced apoptosis and cell proliferation in colon cancer cells. Eur. J. Cancer, 48, suppl. 5, S267-268, **2012**
- P6. Dumitru M., Gruia M.I., Hortopan M.G., Vasilescu M.M., **Mihaila M.**, Hotnog C.M., Brasoveanu L.I. HER2 gene amplification, phosphorylated-HER2, EGFR expression and DNA ploidy in urinary bladder carcinomas. The FEBS Journal, **2012**
- P7. **M. Hirt**, D. Hotnog, C. Hotnog, L. Puiu, L.I. Brasoveanu. Effect of stimuli treatment on cell signalling mechanisms associated to colorectal cell lines. Proceedings of the 2nd European Congress of Immunology, Editors Reinhold E. SchmidtMEDIMOND, 391-395, **2010**
- P8. L. I. Brasoveanu, **M. Hirt**, G. Matei, M. Bostan, L. Puiu. Stimuli modulation of apoptosis and proliferation through cell cycle phases in colon cancer cell lines. Proceedings of the 2nd European Congress of Immunology. Editors Reinhold E. SchmidtMEDIMOND, 127-130, **2010**
- P9. Brasoveanu L.I., Hotnog C., **Mihaila M.**, Puiu L. Expression of cell adhesion molecules on MDR-1 positive stimuli treated breast tumour cells. European Journal of Cancer, Supplement, **2010**
- P10. Brasoveanu L.I., **Mihaila M.**, Matei G., Predescu D., Gruia M.I., Anghel R. Biomarkers associated to human esophageal stem cell-like. Journal of Stem Cells & Regenerative Medicine, **2010**
- P11. **Mihaila Mirela**, Hotnog Camelia, Theodor Valentin, Brasoveanu Lorelei Irina. Effect of stimuli treatment on cell signalling mechanisms associated to oral cancers. Scandinavian Journal of Immunology, **2010**
- P12. **Mihaila Mirela**, Hotnog Camelia, Theodor Valentin, Brasoveanu Lorelei Irina. Effect of stimuli treatment on proliferation, apoptosis and cell signalling mechanisms associated to oral cancers, European Journal of Cancer, Supplement, **2010**
- P13. Hotnog Camelia, **Mihaila Mirela**, Brasoveanu Lorelei Irina. Gene expression analysis of tumour markers associated to apoptosis and proliferation in head and neck cancer. European Journal of Cancer, Supplement, **2010**
- P14. L.I. Brasoveanu, C. Hotnog, V. Roman, **M. Hirt**, M. Bostan, S. Cinca, L. Puiu. Effect of stimuli treatment on proliferation and apoptosis of tumor cells, 20th Meeting of the European Association for Cancer Research, 136 (poster 526), **2008**, Lyon, France, European Journal of Cancer, Supplement

8. Proiecte de cercetare/dezvoltare pe bază de contract/grant (director grant/membru în echipă) (38 proiecte):

Contract / grant internațional / grant financare europeană - membru în echipa de cercetare (4):

- G1. 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
- G2. 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
- G3. Program COST 844: "Apoptosis and programmed cell death: molecular mechanism and application in biotechnology and agriculture", coordonator proiect Universitatea Bucuresti, 2000 – 2004
- G4. 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 (3):

- G5. PN-III-P2-2.1-PED2019-5143, 383PED: "Dezvoltarea unor sisteme de nanoparticule antitumorale, bazate pe noi complexe metalice", director de proiect, 2020 – 2022
- G6. 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
- G7. 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 în echipa de cercetare (31):

- G8. 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
- G9. Program PCCA contract 135/2012: "Markeri moleculari ca predictorii ai evolutiei post-terapeutice in managementul evolutiei si prognozei carcinomului tiroidian diferentiat" (GENITIR), responsabil proiect IVN, 2012 – 2016
- G10. 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

- G11. Program PNII contract 42/144 (Sanatate): „Identificarea si caracterizarea unei subpopulatii de celule cu proprietati de celule stem tumorale in hepatoame si cancere esofagiene si corelarea cu mecanismele de rezistenta la tratament”, director proiect IOB, 2008 – 2011
- G12. Program PNCDII contract 62078/2008: “Biomarkeri si agenti de chimiopreventie in limfoproliferarile cornice”, director proiect IVN, 2008 - 2011
- G13. Program PNCDII contract nr. 41-084/2007 (Sanatate): “Utilizarea markerilor genetici pentru stabilirea unor terapii tintite, in cancerul orofaringian și laringian, la om”, responsabil IVN, 2007 – 2010
- G14. Program CEEX 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
- G15. Program CEEX 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
- G16. Program CEEX contract 77/2006 (Biomedical): “Studii la nivel celular si molecular privind activitatile biologice ale curcuminei in vederea evaluarii potentialului terapeutic”, director proiect Universitatea Bucuresti, Facultatea de Biologie, responsabil parteneriat IVN, 2006 – 2008
- G17. Proiect CEEX contract 26/2005: „Biomolecule radiomarcate pentru tratamentul tintit al cancerului si inhibarea angiogenezei”, director proiect IFIN, responsabil parteneriat IVN, 2005 - 2008
- G18. Program CEEX contract 82/2006 (Biotehnologie): ”Modularea apoptozei induse de micotoxine in linii celulare”, director proiect IVN, 2006 – 2008
- G19. Grant CNCISIS Cod 865/2006 (tip A): “Noi tinte terapeutice in artrita reumatoida: Implicarea MAP kinazelor in reglarea functiilor leucocitelor polimorfonucleare”, director proiect IVN, 2006 – 2008
- G20. Proiect CEEX 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
- G21. Grant CNCISIS (tip A): “Studiul modularii functiilor celulelor NK mediate de receptorii Fcγ prin concentratii mari de IgG”, director proiect IVN, 2004 – 2006
- G22. PNCDI 179/2004 Viasan: “Modularea caili apoptotice de catre substante biologice active in terapia cancerului”, director program dr. Viviana Roman, 2004 – 2006
- G23. Grant AR: CNCISIS (tip A): Studiul modularii functiilor celulelor NK mediate de receptorii Fcγ prin concentratii mari de IgG”, director proiect IVN, 2004 – 2006
- G24. Program PNCDI BIOTECH: ”Apoptoza in hepatocite si poluarea cu metale grele”, director proiect IVN, 2004 – 2006
- G25. Program Viasan contract 235/2003: “Mecanisme celulare si moleculare implicate in rezistenta celulelor tumorale la imunoterapie”, director proiect IVN, 2003 – 2005
- G26. Grant CNCISIS (tip AT): “Molecule de adeziune implicate in mecanisme moleculare si celulare ce contribuie la progresia tumorală”, director proiect IVN, 2003 – 2005
- G27. PNCDI – Biotech: “Tehnici moderne utilizate in studiul mecanismelor celulare si moleculare implicate in progresia tumorală”, director proiect IVN, 2003 – 2005
- G28. 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
- G29. Grant al Academiei Romane: “Modularea ciclului celular in limfoproliferarile cronice”, director proiect IVN, 2003 – 2004
- G30. Program Biotech: “Tinte genetice in cancerul mamar”, director dr. Liliana Puiu, Institutul Oncologic Bucuresti, responsabil parteneriat IVN, 2002 – 2005
- G31. Program Viasan contract 169/2002: “Cercetari privind implicarea unor molecule de adeziune, in corelatie cu markeri tumoral si factori imunologici, in progresia tumorală si metastazarea cancerului mamar”, 2002 – 2005
- G32. Grant al Academiei Romane: “Mecanisme celulare si moleculare implicate in rezistenta celulelor tumorale la actiunea complementului”, director proiect IVN, 2001 – 2003
- G33. 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
- G34. Grant ANSTI: “Studiul comparativ al protectinei (CD59) celulare si solubile in diverse linii celulare tumorale”, director proiect IVN, 1999 – 2000
- G35. Grant ANSTI tip C: “Evaluarea nivelurilor protectinei solubile (sCD59) prin teste imunochimice si studiul rolului functional al sCD59 purificate in anumite tipuri de cancer uman”, director proiect IVN, 1999 – 2001
- G36. Grant al Academiei Romane: "Caracterizarea protectinei (CD59) asociate membranei celulare si a formei sale solubile în cancerul mamar", director proiect IVN, 1998

G37. Grant al Academiei Romane: “Studiul rolului functional al formelor solubile ale CD59, CD55 si CD46, comparativ cu al formelor membranare, in liza complemento-mediata a celulelor tumorale mamare”, director proiect IVN, 1998 – 2000

G38. GGrant al Academiei Romane: “Studiul comparativ al rolului CD59, CD55 si CD46 in protejarea celulelor tumorale mamare fata de actiunea complementului omolog”, director proiect IVN, 1999

9. Alte lucrări și contribuții științifice (17 lucrari):

L1. **Mirela Mihăilă**, Marinela Bostan, Viviana Roman, Camelia Hotnog, Mariana Popescu, Roxana Colette Sandulovici, Daniel Cord, Mirela Claudia Rîmbu. Compositional study and evaluation of the antiproliferative action of *Chelidonium majus* extract on tumor cell lines. Al 10-lea Congres al Federației Societăților Române de Cancer, al 30-lea Congres al Societății Române de Radioterapie și al 35-lea Congres al Societății Române de Radioterapie și Oncologie Medicală, 24 - 27.10.2024, Sinaia

L2. **Mirela Mihăilă**, Viviana Roman, Camelia Hotnog, Coralia Bleotu, Nicoleta Radu, Lorelei I. Brașoveanu, Marinela Bostan. xCELLigence Real-Time Cell Analyzer for continuous monitoring effects of treatments in tumor cell lines. International workshop digital education techniques for students' learning assessment, 12 - 13 iunie 2024, Bucuresti

L3. **Mirela Mihăilă**, Marinela Bostan, Camelia Hotnog, Viviana Roman, Lorelei I. Brașoveanu, Valentina Uivarosî, Analysis of the antitumor activity of some metal complexes in different tumor cell lines. Academician Nicolae Cajal Symposium, Romanian Academy, 28 - 29 martie, 2024, Bucuresti

L4. **M. Mihaila**, M. Bostan, C. Hotnog, V. Roman, L. I. Brașoveanu, A.C. Munteanu, V. Uivarosî. Biological activity of the metal complexes in different tumor cell lines. 2nd Edition of the OncoHub Conference Connecting Scientists and Physicians for Next Generation Cancer Management, 21- 23 septembrie 2022, Poiana Brasov

L5. **M. Mihaila**, M. Bostan, C. Hotnog, V. Roman, L.I. Brașoveanu, A.C. Munteanu, V. Uivarosî. Evaluation of anti-tumor activity of the metal complexes on colon and ovarian cancer cell lines. “Inovație și Multidisciplinaritate în Tratatamentul Cancerului” Al 33-lea Congres al Societății Române de Radioterapie și Oncologie Medicală și Congresul Societății Române de Radioterapie, Sinaia, 13 - 16 octombrie 2022

L6. C.M. Hotnog, **M. A. Mihaila**, M. M. Vasilescu, G. Ion, M. Bostan, L.I. Brasoveanu. Modulation of molecules associated with resistance to therapy in human breast cancer cell lines with different TP53 mutational status. Al 33-lea Congres al Societății Române de Radioterapie și Oncologie Medicală și Congresul Societății Române de Radioterapie, Sinaia, 13 - 16 octombrie 2022

L7. A. Botezatu, A. Fudulu, I.V. Iancu, M. Bostan, **M. Mihaila**, A. Albușescu, C.C. Diaconu, G. Anton, A. Plesa. Assessment of HPV16 viral oncogenes role in genome-wide pattern deposition of MBD2/3 components of NuRD nucleosome remodeling complex” Congresul „The biochemistry global summit” 25th IUBMB, 46th FEBS and 15th PABMB 2022, Lisabon, Portugalia, 8-14 iulie 2022

L8. Camelia Elena Stecoza, George Mihai Nitulescu, Constantin Draghici, Miron Teodor Caproiu, Octavian Tudorel Olaru, Marinela Bostan, **Mirela Mihaila**. New 1,3,4 - oxadiazole derivatives and their role in tumor processes. "7th International Electronic Conference on Medicinal Chemistry", 1–30 Nov 2021 online, DOI: 10.3390/ECMC2021-11475

L9. Camelia Elena Stecoza, George Mihai Nitulescu, Constantin Draghici, Miron Teodor Caproiu, Diana Nuta, Marinela Bostan, **Mirela Mihaila**. Analysis of the antitumor capacity of some new 1,3,4-oxadiazole-based heterocycles. Congresul Universitatii de Medicina si Farmacie "Carol Davila", 2021. Revista MÆDICA - a Journal of Clinical Medicine, ID239, pg. 9, Volume 16 Supplement 2021, ISSN: 2501-6903, ISSN-L: 2501-6903

L10. **Mirela Mihaila**, Camelia Hotnog, Marinela Bostan, Viviana Roman, Ion Gabriela, Lorelei I. Brasoveanu. Reversing resistance to chemo- and immunotherapy in T47-D breast cancer cell line. Oncolog-Hematolog anul XIII, 47 (2), 57, 2019, doi: 10.26416/OnHe.47.2.2019, Scientific Days of Oncology Institute Bucharest, 16-18 may 2019, Bucharest

L11. Camelia Mia Hotnog, **Mirela Mihaila**, Marinela Bostan, Lorelei Irina Brasoveanu. Modulation of the cell adhesion profile associated to colon cancer cell lines by bioactive compounds. Oncolog-Hematolog anul XIII, 47 (2), 56, 2019, doi: 10.26416/OnHe.47.2.2019, Scientific Days of Oncology Institute Bucharest, 16-18 may 2019, Bucharest

L12. Marinela Bostan, Georgiana Gabriela Petrica-Matei, Gabriela Ion, Viviana Roman, Nicoleta Radu, **Mirela Mihaila**, Razvan Hainarosie, Lorelei Irina Brasoveanu. The expression of ERBB-2 and P53 proteins in primary cell cultures obtained from the head and neck tumors. Oncolog-Hematolog anul XIII, 47 (2), 51, 2019, doi: 10.26416/OnHe.47.2.2019, Scientific Days of Oncology Institute Bucharest, 16-18 may 2019, Bucharest

L13. Daniela Glavan, Maria Iuliana Gruia, Valentina Negoita, Camelia Mia Hotnog, **Mirela Mihaila**, Lorelei Irina Brasoveanu. Study on the role of proteinases during the development of Walker-256 carcinosarcoma in

- vivo and in vitro. Oncolog-Hematolog XIII, 47 (2), 55, 2019, doi: 10.26416/OnHe.47.2.2019, Scientific Days of Oncology Institute Bucharest, 16-18 may **2019**, Bucharest
- L14. Mirela Dumitru, Monica Gratiela Hortopan, Monica Maria Vasilescu, **Mirela Mihaila**, Camelia Mia Hotnog, Lorelei Irina Brasoveanu, Marieta Elena Panait, Maria Iuliana Gruia. EGFR status and cellular proliferation in urinary bladder cancer. Oncolog-Hematolog XIII, 47 (2), 55, 2019, doi: 10.26416/OnHe.47.2.2019, Scientific Days of Oncology Institute Bucharest, 16-18 may **2019**, Bucharest
- L15. Maria Monica Vasilescu, Maria Iuliana Gruia, Camelia Hotnog, **Mirela Mihaila**, Marinela Bostan, Marieta Elena Panait, Lorelei Irina Brasoveanu. Expression of topoisomerases as indicator of MCF-7 cells response to adriablastin treatment. Oncolog-Hematolog anul XIII, 47 (2), 58, 2019, doi: 10.26416/OnHe.47.2.2019, Scientific Days Of Oncology Institute Bucharest, 16-18 may **2019**, Bucharest
- L16. **Mirela Mihaila**, Camelia Hotnog, Viviana Roman, Marinela Bostan, Valentina Uivarosi, Lorelei I. Brasoveanu. Ruthenium (III) compounds as potential therapeutic agents in human colorectal cancer. Scientific Days of Oncology Institute Bucharest, 17-19 mai 2018, Bucuresti, Oncolog-Hematolog anul XII, 43 (2), 41, doi: 10.26416/OnHe.43.2.2018, **2018**
- L17. Camelia Mia Hotnog, **Mirela Mihaila**, Marinela Bostan, Lorelei Irina Brasoveanu. Characterization of angiogenic profile in colon cancer cells with different p53 mutational status by microarray technique. Scientific Days of Oncology Institute Bucharest, 17-19 mai 2018, Bucuresti, Oncolog-Hematolog anul XII, 43 (2), 34, doi: 10.26416/OnHe.43.2.2018, **2018**

10. Traduceri de lucrări științifice: -

Declar pe proprie răspundere că datele prezentate sunt în conformitate cu realitatea

Data 13.01.2025

DR. MIRELA ANTONELA MIHĂILĂ (HIRT)