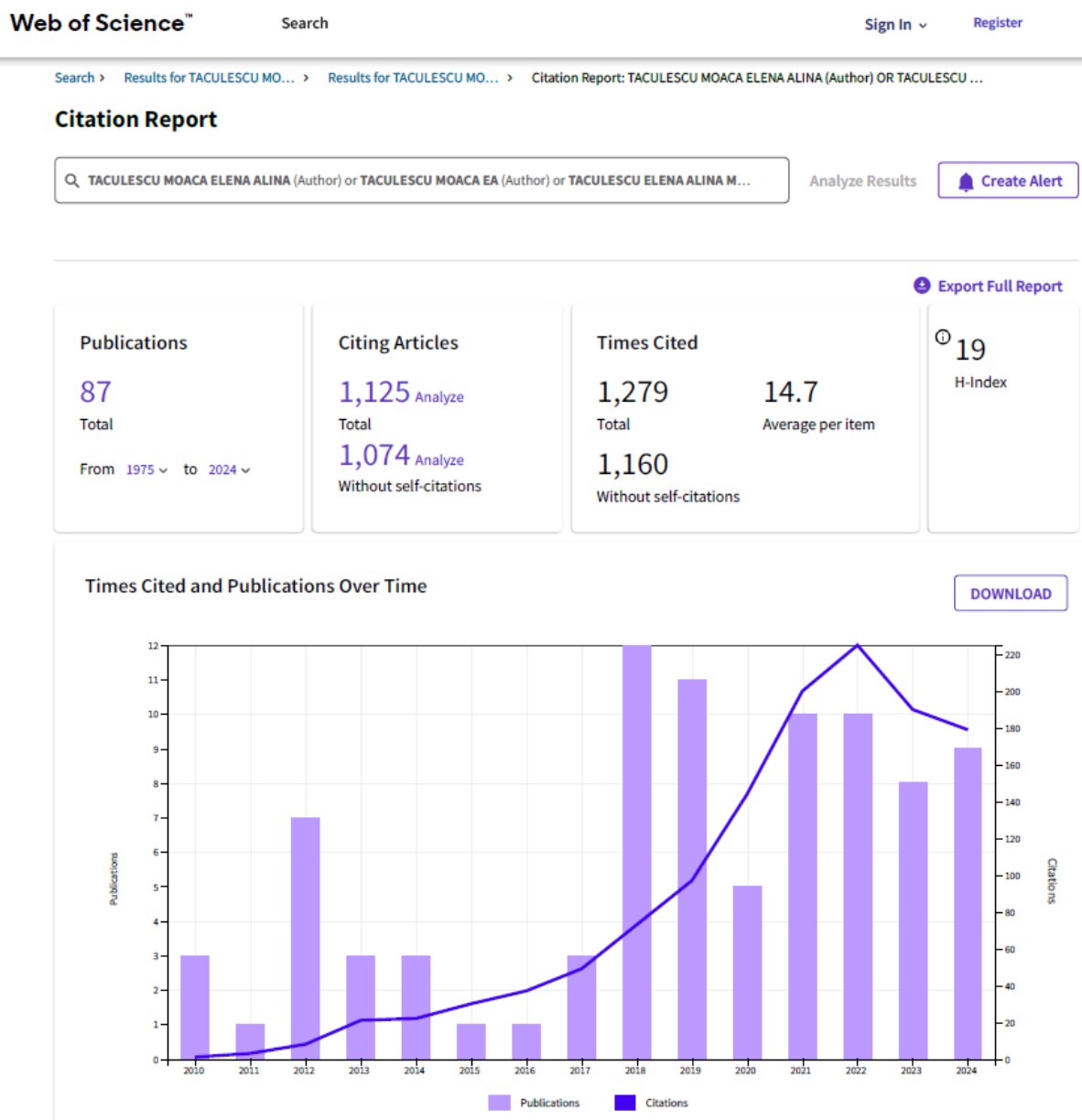


# LISTA PUBLICAȚIILOR ȘI A PROIECTELOR DE CERCETARE

Conferențiar Univeritar Dr. Elena-Alina MOACĂ (născută TĂCULESCU)

## Raportul citărilor, indice Hirsch - Web of Science Core Collection (Octombrie 2024)



## A. TEZA DE DOCTORAT

### 1. Diplomă de Doctor în Farmacie, conf. OMEN nr. 3900 din 28.03.2023

**Titlul tezei:** CONTRIBUȚII PRIVIND EVALUAREA EXPERIMENTALĂ A DIFERITELOR MATERIALE MAGNETICE PE BAZĂ DE NANOPARTICULE DE OXID DE FIER, DIN PUNCT DE VEDERE FIZICO-CHIMIC ȘI BIOLOGIC

### 2. Diplomă de Doctor în Inginerie Chimică, conf. OMEN nr. 165 din 07.04.2014

**Titlul tezei:** NOI ABORDĂRI PRIVIND SINTEZA ȘI UTILIZAREA UNOR NANOMETERIALE CU PROPRIETĂȚI MAGNETICE

## B. CĂRȚI PUBLICATE ÎN EDITURI NAȚIONALE

1. **Tăculescu Elena Alina**, *Noi abordări privind sinteza și utilizarea unor nanomateriale cu proprietăți magnetice*, Teze de doctorat ale UPT (Universitatea Politehnica Timișoara), Seria 4, Nr. 78, Editura Politehnica, ISSN:1842-8223, ISBN:978-606-554-785-8, **2014**
2. D. Coricovac, C. Dehelean, I. Pînzaru, **A. Moacă**, *Noi aspecte în ceea ce privește utilizarea plantelor toxice*, Editura Victor Babeș, 126 pagini, ISBN 978-606-786-107-5, **2018**

## C. CAPITOLE DE CARTE PUBLICATE ÎN EDITURI INTERNAȚIONALE

1. C. Șoica, D. Antal, F. Andrica, R. Băbuța, **A. Moacă**, F. Ardelean, R. Ghiulai, S. Avram, C. Danciu, D. Coricovac, C. Dehelean, V. Păunescu, *Lupan-Skeleton Pentacyclic Triterpenes with Activity against Skin Cancer: Preclinical Trials Evolution*, Chapter 5, DOI: 10.5772/intechopen.68908, In *Unique Aspects of Anti-cancer Drug Development*, edited by Jolanta Natalia Latosinska and Magdalena Latosinska, ISBN 978-953-51-3347-6, InTech Open **2017**
2. **E.A. Moacă**, E.D. Coricovac, C.M. Soica, I.A. Pinzaru, C.S. Păcurariu, C.A. Dehelean, *Preclinical aspects on magnetic iron oxides nanoparticles and their interventions as anticancer agents: enucleation, apoptosis and other mechanism*, Chapter 12, DOI: 10.5772/intechopen.74176, in: *Iron ores and iron oxide materials*, edited by: Dr. Volodymyr Shatokha, ISBN 978-1-78923-321-6, InTech Open **2018**
3. D.C. Lazăr, **E.A. Moacă**, M. Cornianu, S. Tăban, A. Faur, A. Goldiș, *Efficiency of Treatment Targeted on Gut Microbiota in Inflammatory Bowel Diseases: Current Strategies and Perspectives*, Chapter 4, DOI: 10.5772/intechopen.108664, In *Benign Anorectal Disorders - An Update*, edited by: Dr. Alberto Vannelli and Dr. Daniela Cornelia Lazar, ISBN 978-1-80355-705-2, InTech Open **2022**

## D. PUBLICAȚII

### I. Articole publicate in extenso în reviste indexate ISI Web of Knowledge

1. Moise, G.; Jijie, A.-R.; **Moacă, E.-A.**; Predescu, I.-A.; Dehelean, C.A.; Hegheș, A.; Vlad, D.C.; Popescu, R.; Vlad, C.S. *Plants' Impact on the Human Brain—Exploring the Neuroprotective and Neurotoxic Potential of Plants*. *Pharmaceuticals* **17**, 1339. <https://doi.org/10.3390/ph17101339>, **2024 (I.F.=4.3)**
2. Grosu, C.; Jijie, A.-R.; Manea, H.C.; **Moacă, E.-A.**; Iftode, A.; Minda, D.; Chioibaș, R.; Dehelean, C.-A.; Vlad, C.S. *New Insights Concerning Phytophotodermatitis Induced by Phototoxic Plants*. *Life-Basel* **14**, 1019. <https://doi.org/10.3390/life14081019>, **2024 (I.F.=3.2)**
3. Zakzak, K.; Semenescu, A.-D.; **Moacă, E.-A.\* (\*-autor corespondent)**; Predescu, I.; Drăghici, G.; Vlaia, L.; Vlaia, V.; Borcan, F.; Dehelean, C.-A. *Comprehensive Biosafety Profile of Carbomer-Based Hydrogel Formulations Incorporating Phosphorus Derivatives*. *Gels* **10**, 477. <https://doi.org/10.3390/gels10070477>, **2024 (I.F.=5)**
4. Magyari-Pavel, I.Z.; **Moacă, E.-A.**; Avram, Ș.; Diaconeasa, Z.; Haidu, D.; Ștefănuț, M.N.; Rostas, A.M.; Muntean, D.; Bora, L.; Badescu, B.; et al. *Antioxidant Extracts from Greek and Spanish Olive Leaves: Antimicrobial, Anticancer and Antiangiogenic Effects*. *Antioxidants* **13**, 774. <https://doi.org/10.3390/antiox13070774>, **2024 (I.F.=6)**
5. Sarău, O.S.; **Moacă, E.-A.\* (\*-autor corespondent)**; Semenescu, A.-D.; Dumitru, R.; Jijie, A.-R.; Poenaru, M.; Dehelean, C.-A.; Chevereșan, A. *Physicochemical and Toxicological Screening of Silver Nanoparticle Biosynthesis from Punica granatum Peel Extract*. *Inorganics* **12**, 160. <https://doi.org/10.3390/inorganics12060160>, **2024 (I.F.=3.1)**
6. K. Zakzak, L. Vlaia, A.D. Semenescu, C. Dumitrescu, G. Coneac, A.M. Kis, **A. Moacă**, V. Vlaia, S. Iurciuc, E.H. Stefanescu. *In vitro study of topical caffeine and ascorbyl magnesium phosphate formulations*

– preparation, physicochemical characterization, and pharmaco-toxicological assessment. *Farmacia* **72**(2), 381-396. <https://doi.org/10.31925/farmacia.2024.2.16>, **2024 (I.F.=1.4)**

7. M. Boța, L. Vlaia, A.R. Jijie, I. Marcovici, F. Crișan, C. Oancea, C.A. Dehelean, T. Mateescu, **E.A. Moacă**. *Exploring Synergistic Interactions between Natural Compounds and Conventional Chemotherapeutic Drugs in Preclinical Models of Lung Cancer*. *Pharmaceutics* **17**, 598, <https://doi.org/10.3390/ph17050598>, **2024 (I.F.=4.3)**
8. S. Liga, C. Paul, **E.A. Moacă**, F. Péter. *Niosomes: Composition, Formulation Techniques, and Recent Progress as Delivery Systems in Cancer Therapy*. *Pharmaceutics* **16**(2), 223-245. <https://doi.org/10.3390/pharmaceutics16020223>, **2024 (I.F.=4.9)**
9. Prodan-Bărbulescu C, Watz C-G, **Moacă E-A\* (\*-autor corespondent)**, Faur A-C, Dehelean C-A, Faur FI, Grigoriță LO, Maghiari AL, Tuțac P, Duță C, Bolintineanu S, Ghenciu LA. *A Preliminary Report Regarding the Morphological Changes of Nano-Enabled Pharmaceutical Formulation on Human Lung Carcinoma Monolayer and 3D Bronchial Microtissue*. *Medicina* **60**(2), 208. <https://doi.org/10.3390/medicina60020208>, **2024 (I.F.= 2.4)**
10. Semenescu, A.D.; **Moacă, E.A.**; Iftode, A.; Dehelean, C.A.; Tchiakpe-Antal, D.S.; Vlase, L.; Rotunjanu, S.; Muntean, D.; Chiriac, S.D.; Chioibaș, R. *Recent updates regarding the anti-proliferative activity of Galium verum extracts on A375 human malignant melanoma cell line*. *Life-Basel* **14**, 112. <https://doi.org/10.3390/life14010112>, **2024 (I.F. = 3.2)**
11. A.D. Semenescu, **E.A. Moacă**, R. Chioibaș, A. Iftode, D.S. Tchiakpe-Antal, L. Vlase, A.M. Vlase, D. Muntean, C.A. Dehelean. *Phytochemical and biological screening of aqueous Galium verum L. extract*. *The Annals of the University Dunarea de Jos of Galati Fascicle VI – Food Technology* **47**(2), 172-189, <https://doi.org/10.35219/foodtechnology.2023.2.11>, **2023 (I.F. = 0.8)**
12. A.D. Semenescu, **E.A. Moacă**, R. Chioibaș, A. Iftode, D.S. Tchiakpe-Antal, L. Vlase, A.M. Vlase, D. Muntean, C.A. Dehelean. *Galium verum L. Petroleum ether extract – antitumor potential on human melanoma cells*. *Ovidius University Annals of Chemistry* **34**(2), 140-149, <https://doi.org/10.2478/auoc-2023-0018>, **2023 (I.F. = 1)**
13. Semenescu, A.D.; **Moacă, E.A.**; Iftode, A.; Dehelean, C.A.; Tchiakpe-Antal, D.S.; Vlase, L.; Vlase, A.M.; Muntean, D.; Chioibaș, R. *Phytochemical and Nutraceutical Screening of Ethanol and Ethyl Acetate Phases of Romanian Galium verum Herba (Rubiaceae)*. *Molecules* **28**, 7804. <https://doi.org/10.3390/molecules28237804>, **2023 (I.F. = 4.2)**
14. G.A. Draghici, C.A. Dehelean, **A.E. Moaca**, M.L. Moise, I. Pinzaru, V.N. Vladut, I. Banatean-Dunea, D. Nica. *Cadmium nitrate and DNA methylation in gastropods: comparison between ovotestis and hepatopancreas*. *PeerJ* 1-21, <https://doi.org/10.7717/peerj.15032>. **2023 (I.F. = 2.3)**
15. C.E. Ille, **E.A. Moacă**, M. Suciuc, L. Barbu-Tudoran, M.L. Negruțiu, A. Jivănescu. *The Biological Activity of Fragmented Computer-Aided Design/Manufacturing Dental Materials before and after Exposure to Acidic Environment*. *Medicina* **59**(1), 104-127. <https://doi.org/10.3390/medicina59010104>, **2023 (I.F. = 2.4)**
16. **E.A. Moacă**, C. Watz, A.C. Faur, D. Lazăr, V. Socoliuc, C. Păcurariu, R. Ianoș, C.I. Rus, D. Minda, L. Barbu-Tudoran, C.A. Dehelean. *Biologic Impact of Green Synthesized Magnetic Iron Oxide Nanoparticles on Two Different Lung Tumorigenic Monolayers and a 3D Normal Bronchial Model—EpiAirway™ Microtissue*. *Pharmaceutics* **15**(2), 1-26, <https://doi.org/10.3390/pharmaceutics15010002>, **2023 (I.F. = 4.9)**
17. **E.A. Moacă**, V. Socoliuc, D. Stoian, C. Watz, D. Flondor, C. Păcurariu, R. Ianoș, C.I. Rus, L. Barbu-Tudoran, A. Semenescu, C. Sarău, A. Chevereșan, C.A. Dehelean. *Synthesis and Characterization of Bioactive Magnetic Nanoparticles from the Perspective of Hyperthermia Applications*. *Magnetochemistry* **8**(11), 145-168, <https://doi.org/10.3390/magnetochemistry8110145>, **2022 (I.F. = 2.7)**

18. C. Ille, **E.A. Moacă\*** (\* - autor corespondent), D. Pop, L. Goguță, C. Opreș, I.L. Pîrvulescu, L. Avram, A. Faur, A. Jivănescu. *Compressive strength evaluation of thin occlusal veneers from different CAD/CAM materials, before and after acidic saliva exposure*. *Odontology* 1-15, <https://doi.org/10.1007/s10266-022-00741-5>, 2022 (I.F. = 2.5)
19. Anton A.#, **Moaca E.A.#** (# - contribuție egală), Sarau C.A., Dinu S., Semenescu A.D., Macasoi I.G., Dehelean, C.A. *Antioxidant and in vitro cytotoxic activity of commercial lemongrass, sea buckthorn and basil essential oils, against colorectal cancer cell line HCT 116*. *Farmacia* 70(4), 683-689, <https://doi.org/10.31925/farmacia.2022.4.14>, 2022 (I.F. = 1.6)
20. **E.A. Moacă**, C.G. Watz, D. Flondor (Ionescu), C. Pacurariu, L. Barbu Tudoran, R. Ianos, V. Socoliuc, G.A. Draghici, A. Iftode, S. Liga, D. Dragos, C.A. Dehelean. *Biosynthesis of Iron Oxide Nanoparticles: Physico-Chemical Characterization and Their In Vitro Cytotoxicity on Healthy and Tumorigenic Cell Lines*. *Nanomaterials* 12, 2022, 1-24, <https://doi.org/10.3390/nano12122012>, 2022 (I.F. = 5.3)
21. S. Simu, A. Ledetș, **E.A. Moacă\*** (\* - autor corespondent), C. Păcurariu, C. Dehelean, D. Navolan, I. Ledetș. *Thermal Degradation Process of Ethinylestradiol—Kinetic Study*. *Processes* 10, 1518, 1-11, <https://doi.org/10.3390/pr10081518>, 2022 (I.F. = 3.5)
22. B. Kis, **E.A. Moacă\*** (\* - autor corespondent), L. Barbu Tudoran, D. Muntean, I.Z. Magyari-Pavel, D.I. Minda, A. Lombrea, Z. Diaconeasa, C.A. Dehelean, S. Dinu, C. Danciu. *Green Synthesis of Silver Nanoparticles Using Populi gemmae Extract: Preparation, Physicochemical Characterization, Antimicrobial Potential and In Vitro Antiproliferative Assessment*. *Materials* 15, 5006, 1-20, <https://doi.org/10.3390/ma15145006>, 2022 (I.F. = 3.4)
23. B. Kis, I.Z. Pavel, S. Avram, **E.A. Moaca**, M. Herrero San Juan, A. Schwiebs, H.H. Radeke, D. Muntean, Z. Diaconeasa, D. Minda, C. Oprean, F. Bojin, C.A. Dehelean, C. Soica, C. Danciu. *Antimicrobial activity, in vitro anticancer effect (MCF-7 breast cancer cell line), antiangiogenic and immunomodulatory potentials of Populus nigra L. buds extract*. *BMC Complementary Medicine and Therapies* 22, 74, 1-24, <https://doi.org/10.1186/s12906-022-03526-z>, 2022 (I.F. = 3.9)
24. S. Dinu, E.L. Craciunescu, I. Macasoi, D. Chioran, M. Rivis, D. Vlad, R.A. Milutinovici, I. Marcovici, A. Dolghi, **A. Moaca**, D.C. Dinu, C. Dehelean, M. Popa. *Toxicological Assessment of an Acrylic Removable Orthodontic Appliance Using 2D and 3D In Vitro Methods*. *Materials* 15, 1193-1207, <https://doi.org/10.3390/ma15031193>, 2022 (I.F. = 3.4)
25. S. Dinu, R. Buzatu, I. Macasoi, M. Popa, C.S. Vlad, I. Marcovici, I. Pinzaru, C.A. Dehelean, **E.A. Moaca**, L. Barbu-Tudoran, M. Pricop. *Toxicological Profile of Biological Environment of Two Elastodontic Devices*. *Processes* 9(12), 2116-2130, <https://doi.org/10.3390/pr9122116>, 2021 (I.F.=3.352)
26. A. Căpraru, **E.-A. Moacă\*** (\*-autor corespondent), C. Păcurariu, R. Ianoș, R. Lazău, L. Barbu-Tudoran. *Development and characterization of magnetic iron oxide nanoparticles using microwave for the combustion reaction ignition, as possible candidates for biomedical applications*. *Powder Technology* 394, 1026-1038, <https://doi.org/10.1016/j.powtec.2021.08.093>, 2021 (I.F.=5.640)
27. I.L. Pîrvulescu, D. Pop, **E.A. Moacă\*** (\*-autor corespondent), C.V. Mihali, C. Ille, A. Jivănescu. *Effects of Simulated Gastric Acid Exposure on Surface Topography, Mechanical and Optical Features of Commercial CAD/CAM Ceramic Blocks*. *Applied Science* 11(18), 8703, <https://doi.org/10.3390/app11188703>, 2021 (I.F = 2.838)
28. B. Kis, I.Z. Pavel, D. Haidu, M.N. Stefanut, Z. Diaconeasa, **E.A. Moacă**, C.A. Dehelean, S. Sipos, A. Ivan, C. Danciu, *Inorganic Element Determination of Romanian Populus nigra L. Buds Extract and In Vitro Antiproliferative and Pro-Apoptotic Evaluation on A549 Human Lung Cancer Cell Line*. *Pharmaceutics* 13(7), 986, <https://doi.org/10.3390/pharmaceutics13070986>, 2021 (I.F= 6.525)
29. R.D. Pârvănescu, C.G. Watz, **E.A. Moacă\*** (\*-autor corespondent), V. Vlaia, I. Marcovici, I.G. Macasoi, F. Borcan, I. Olariu, G. Coneac, G.A. Drăghici, Z. Crainiceanu, D. Flondor (Ionescu), A. Enache, C.A. Dehelean. *Oleogel Formulations for the Topical Delivery of Betulin and Lupeol in Skin Injuries*



30. D. Pop, R. Buzatu, **E.A. Moacă\*** (\*-autor corespondent), C.G. Watz, S. Cînta-Pînzaru, L. Barbu Tudoran, F. Nekvapil, S. Avram, C.A. Dehelean, M.O. Crețu, M. Nicolov, C. Szuhaneck, A. Jivanescu. *Development and Characterization of Fe<sub>3</sub>O<sub>4</sub>@Carbon Nanoparticles and Their Biological Screening Related to Oral Administration*. *Materials* **14**(13), 3556, <https://doi.org/10.3390/ma14133556>, **2021 (I.F = 3.748)**
31. **E.A. Moacă**, C.G. Watz, V. Socoliuc, R. Racoviceanu, C. Păcurariu, R. Ianoș, S. Cînta-Pînzaru, L. Barbu Tudoran, F. Nekvapil, S. Iurciuc, C. Șoica, C.A. Dehelean. *Biocompatible Magnetic Colloidal Suspension Used as a Tool for Localized Hyperthermia in Human Breast Adenocarcinoma Cells: Physicochemical Analysis and Complex In Vitro Biological Profile*. *Nanomaterials* **11**(5), Article Number1189, <https://doi.org/10.3390/nano11051189>, **2021 (I.F = 5.719)**
32. Fabricky, M.M.C.; Gabor, A.-G.; Milutinovici, R.A.; Watz, C.G.; Avram, Ș; Drăghici, G.; Mihali, C.V.; **Moacă, E.-A.**; Dehelean, C.A.; Galuscan, A.; et al. *Scaffold-Type Structure Dental Ceramics with Different Composition Evaluated through Physicochemical Characteristics and Biosecurity Profiles*. *Materials* **14**(9), 2266. <https://doi.org/10.3390/ma14092266>, **2021 (I.F = 3.748)**
33. S. Sipos†, **E.A. Moacă†** (†-contribuție egală), I.Z. Pavel, S. Avram, O.M. Crețu, D. Coricovac, R.M. Racoviceanu, R. Ghiulai, R.D. Pana, C.M. Șoica, F. Borcan, C.A. Dehelean, Z. Crainiceanu. *Melissa officinalis L. Aqueous Extract Exerts Antioxidant and Antiangiogenic Effects and Improves Physiological Skin Parameters*. *Molecules*, **26**(8), 2369-2387; <https://doi.org/10.3390/molecules26082369>, **2021 (I.F = 4.927)**
34. C.A. Szuhaneck, C.G. Watz, Ș. Avram, **E.-A. Moacă**, C.V. Mihali, A. Popa, A.A. Campan, M. Nicolov, C.A. Dehelean, *Comparative Toxicological In Vitro and In Ovo Screening of Different Orthodontic Implants Currently Used in Dentistry*, *Materials*, **13**(24), pp. 5690-5703; <https://doi.org/10.3390/ma13245690>, **2020 (I.F = 3.623)**
35. A. Faur, C. Watz, **E.A. Moacă\*** (\*-autor corespondent), S. Avram, F. Borcan, I. Pinzaru, A. Iftode, M. Nicolov, R.A. Popovici, M. Raica, C.A. Szuhaneck, C. Dehelean, *Correlations on Phenolic Screening Related to In Vitro and In Ovo Assessment of Ocimum basilicum L. Hydro-Alcoholic Extracts Used as Skin Active Ingredient*, *Molecules*, **25**(22), pp. 5442-5464; <https://doi.org/10.3390/molecules25225442>, **2020 (I.F = 4.412)**
36. C.G. Farcas, C. Dehelean, I.A. Pinzaru, M. Mioc, V. Socoliuc, **E.A. Moacă**, S. Avram, R. Ghiulai, D. Coricovac, I. Pavel, P.K. Alla, O.M. Cretu, C. Șoica, F. Loghin, *Thermosensitive Betulinic Acid-Loaded Magnetoliposomes: A Promising Antitumor Potential for Highly Aggressive Human Breast Adenocarcinoma Cells Under Hyperthermic Conditions*, *International Journal of Nanomedicine*, **15**, pp. 8175–8200; <https://doi.org/10.2147/IJN.S269630>, **2020 (I.F = 6.400)**
37. I. Macașoi, I.Z. Pavel, **A.E. Moacă**, Ș. Avram, V.L. David, D. Coricovac, A. Mioc, D.A. Spandidos, A. Tsatsakis, C. Șoica, V. Dumitrașcu, C. Dehelean, *Mechanistic investigations of antitumor activity of a Rhodamine B-oleanolic acid derivative bioconjugate*, *Oncology Reports*, **44**(3), pp. 1169-1183; <https://doi.org/10.3892/or.2020.7666>, **2020 (I.F = 3.906)**
38. L.A. Bojin, A.F. Serb, M.C. Pascariu, **A. Moacă**, R. Kostici, V.L. Purcărea, M. Penescu, M.V. Ivan, M. Georgescu, E. Sisu, *Assessment of Antioxidant Properties of Different Fomes Fomentarius Extracts*, *Farmacia*, **68**(2), pp. 322-328, **2020 (I.F = 1.433)**
39. V.G. Gurita (Ciobotaru), I.Z. Pavel, F. Borcan, **A. Moacă\*** (\*-autor corespondent), C. Danciu, Z. Diaconeasa, I. Imbrea, D. Vlad, V. Dumitrascu, G. Pop, *Toxicological Evaluation of Some Essential Oils Obtained from Selected Romania Lamiaceae Species in Complex with Hydroxypropyl - gamma-cyclodextrin*, *Revista de Chimie*, **70**(10), pp. 3703-3707, **2019 (I.F = 1.755)**

40. C.G. Farcas, **E.A. Moaca\*** (\*-autor corespondent), R. Dragoi, D. Berceanu Vaduva, I. Marcovici, C.V. Mihali, F. Loghin, *Preliminary Results of Betulinic Acid-Loaded Magnetoliposomes - a Potential Approach to Increase Therapeutic Efficacy in Melanoma*, *Revista de Chimie*, **70**(9), pp. 3372-3377, **2019 (I.F = 1.755)**
41. A. Duca, A. Sturza, **E.A. Moacă**, M. Negrea, V.D. Lalescu, D. Lungeanu, C.A. Dehelean, D.M. Muntean, E. Alexa, *Identification of Resveratrol as Bioactive Compound of Propolis from Western Romania and Characterization of Phenolic Profile and Antioxidant Activity of Ethanolic Extracts*, *Molecules*, **24**(18), pp. 3368-3387; <https://doi.org/10.3390/molecules24183368>, **2019 (I.F = 3.267)**
42. **E.A. Moacă**, I.Z. Pavel, C. Danciu, Z. Crăiniceanu, D. Minda, F. Ardelean, D.S. Antal, R. Ghiulai, A. Cioca, M. Derban, S. Simu, R. Chioibaş, C. Szuhaneek, C.A. Dehelean, *Romanian Wormwood (Artemisia absinthium L.): Physicochemical and Nutraceutical Screening*, *Molecules*, **24**(17), pp. 3087-3107; <https://doi.org/10.3390/molecules24173087>, **2019 (I.F = 3.267)**
43. V. Iman, **A. Taculescu**, C. Dehelean, V. Paunescu, *Magnetic Nanoparticles (MNPs) Influence on SK-BR3 Breast Cancer Cell Line - in vitro Study*, *Revista de Chimie*, **70**(7), pp. 2452-2455, **2019 (I.F = 1.755)**
44. I.Z. Pavel, R. Csuk, C. Danciu, S. Avram, F. Baderca, A. Cioca, **E.A. Moacă**, C.V. Mihali, I. Pinzaru, D.M. Muntean, C.A. Dehelean, *Assessment of the Antiangiogenic and Anti-Inflammatory Properties of a Maslinic Acid Derivative and its Potentiation using Zinc Chloride*, *International Journal of Molecular Science*, **20**(11), pp. E2828; <https://doi.org/10.3390/ijms20112828>, **2019 (I.F = 4.556)**
45. I. Tuță-Sas, M. Proks, V. Păunescu, I. Pinzaru, I. Sas, D. Coricovac, **A. Moacă**, C. Dehelean, *Thymus Vulgaris extract formulated as cyclodextrin complexes: synthesis, characterization, antioxidant activity and in vitro cytotoxicity assessment*, *Farmacia*, **67**, pp. 442-451, <https://doi.org/10.31925/farmacia.2019.3.10>, **2019 (I.F = 1.607)**
46. **E.A. Moacă**, C.V. Mihali, I.G. Macaşoi, R. Racoviceanu (Băbuță), C. Șoica, C.A. Dehelean, C. Păcurariu, S. Florescu, *Fe<sub>3</sub>O<sub>4</sub>@C Matrix with Tailorable Adsorption Capacities for Paracetamol and Acetylsalicylic Acid: Synthesis, Characterization, and Kinetic Modeling*, *Molecules*, **24**(9), pp. 1727-1744, <https://doi.org/10.3390/molecules24091727>, **2019 (I.F = 3.267)**
47. **E.A. Moacă**, C. Farcaș, D. Coricovac, Ș. Avram, C.V. Mihali, G.A. Drăghici, F. Loghin, C. Păcurariu, C. Dehelean, *Oleic Acid Double Coated Fe<sub>3</sub>O<sub>4</sub> Nanoparticles as Anti-Melanoma Compounds with a Complex Mechanism of Activity—In Vitro and In Ovo Assessment*, *Journal of Biomedical Nanotechnology*, **15**(5), pp. 893-909, <https://doi.org/10.1166/jbn.2019.2726>, **2019 (I.F = 4.483)**
48. S.L. Coșarcă<sup>#</sup>, **E.A. Moacă<sup>#</sup>** (#-contribuție egală), C. Tănase, D.L. Muntean, I.Z. Pavel, C.A. Dehelean, *Spruce and beech bark aqueous extracts: source of polyphenols, tannins and antioxidants correlated to in vitro antitumor potential on two different cell lines*, *Wood Science and Technology*, **53**(2), pp. 313-333, <https://doi.org/10.1007/s00226-018-1071-5>, **2019 (I.F = 2.109)**
49. M. Nicolov, R.M. Ghiulai, M. Voicu, M. Mioc, A.O. Duse, R. Roman, R. Ambrus, I. Zupko, **E.A. Moacă**, D.E. Coricovac, C. Farcaș, R.M. Racoviceanu, C. Danciu, C.A. Dehelean, C. Șoica, *Cocrystal Formation of Betulinic Acid and Ascorbic Acid: Synthesis, Physico-Chemical Assessment, Antioxidant, and Antiproliferative Activity*, *Frontiers in Chemistry*, **7**(92), pp. 1-11, <https://doi.org/10.3389/fchem.2019.00092>, **2019 (I.F = 3.693)**
50. D. Cîrcioban, A. Ledetî, G. Vlase, **A. Moacă**, I. Ledetî, C. Farcaș, T. Vlase, C. Dehelean, *Thermal degradation, kinetic analysis and evaluation of biological activity on human melanoma for artemisinin*, *Journal of Thermal Analysis and Calorimetry*, **134**(1), pp. 741-748, <https://doi.org/10.1007/s10973-018-7497-z>, **2018 (I.F = 2.471)**
51. V.G. Guriță, I.Z. Pavel, M. Poenaru, **E.A. Moacă\*** (\*-autor corespondent), S. Florescu, C. Danciu, V. Dumitrașcu, I. Imbrea, G. Pop, *Assessment of the Antioxidant Effect of Ethanolic Extracts Obtained from Agrimonia eupatoria L., Filipendula ulmaria (L.) Maxim. And Filipendula vulgaris Moench Collected from the Eastern Part of Romania*, *Revista Chimie*, **69**(9), pp. 2385-2390, **2018 (I.F = 1.605)**

52. D. Circioban, A. Ledeti, G. Vlase, D. Coricovac, **A. Moacă**, C. Farcaș, T. Vlase, I. Ledeti, C. Dehelean, *Guest–host interactions and complex formation for artemisinin with cyclodextrins: instrumental analysis and evaluation of biological activity*, Journal of Thermal Analysis and Calorimetry, **134**(1), pp. 741-748, <https://doi.org/10.1007/s10973-018-7497-z>, **2018 (I.F = 2.471)**
53. R. Ianoș\*, **E.A. Moacă\*** (\*-autor corespondent), A. Căpraru, R. Lazău, C. Păcurariu, *Maghemite, gamma-Fe<sub>2</sub>O<sub>3</sub>, nanoparticles preparation via carbon-templated solution combustion synthesis*, Ceramics International, **44**(12), pp. 14090-14094, <https://doi.org/10.1016/j.ceramint.2018.04.258>, **2018 (I.F = 3.450)**
54. D. Coricovac, C. Dehelean, **E.A. Moacă**, I. Pinzaru, T. Bratu, D. Navolan, O. Boruga, *Cutaneous Melanoma—A Long Road from Experimental Models to Clinical Outcome: A Review*, International Journal of Molecular Science, **19**(6), pp. 1566-1583, <https://doi.org/10.3390/ijms19061566>, **2018 (I.F = 4.183)**
55. **E.A. Moacă**, C. Farcaș, A. Ghițu, D. Coricovac, R. Popovici, N.L. Cărăba-Meiță, F. Ardelean, D.S. Antal, C. Dehelean, Ș. Avram, *A Comparative Study of Melissa officinalis Leaves and Stems Ethanolic Extracts in terms of Antioxidant, Cytotoxic, and Antiproliferative Potential*, Evidence-Based Complementary and Alternative Medicine, Article ID 7860456, pp. 1-12, <https://doi.org/10.1155/2018/7860456>, **2018 (I.F = 1.984)**
56. R. Ianoș, R. Lazău, R. Băbuță, E. Muntean, **E.A. Moacă**, C. Păcurariu, *Solution combustion synthesis: A straightforward route for the preparation of chromium-doped lanthanum aluminate, LaAl<sub>1-x</sub>Cr<sub>x</sub>O<sub>3</sub>, pink red pigments*, Dyes and Pigments, **155**, pp. 218-224, <https://doi.org/10.1016/j.dyepig.2018.03.041>, **2018 (I.F = 4.018)**
57. I. Pinzaru, A. Hegheș, D. Marti, C. Dehelean, D. Coricovac, **E.A. Moacă**, M. Moatar, D. Camen, *Therapeutically potential of medicago sativa extracts chemical and in vitro assessments*, Revista de Chimie, **69**(1), pp. 121-124, **2018 (I.F = 1.605)**
58. R. Ianoș, E. Muntean, R. Lazău, R. Băbuță (Racoviceanu), **E.A. Moacă**, C. Păcurariu, A. Dabici, I. Hulka, *One-step synthesis of near-infrared reflective brown pigments based on iron-doped lanthanum aluminate, LaAl<sub>1-x</sub>Fe<sub>x</sub>O<sub>3</sub>*, Dyes and Pigments, **152**, pp. 105-111, <https://doi.org/10.1016/j.dyepig.2018.01.037>, **2018 (I.F = 4.018)**
59. I. Pinzaru, D. Coricovac, C. Dehelean, **E.A. Moacă**, M. Mioc, F. Baderca, I. Sizemore, S. Brittle, D. Marti, D. Calina, A. Tsatsakis, C. Șoica, *Stable PEG-coated silver nanoparticles – A comprehensive toxicological profile*, Food and Chemical Toxicology, **111**, pp. 546-556, <https://doi.org/10.1016/j.fct.2017.11.051>, **2018 (I.F = 3.775)**
60. C. Danciu, S. Avram, I. Pavel, R. Ghiulai, C. Dehelean, A. Ersilia, D. Minda, C. Petrescu, **E.A. Moacă**, C. Șoica, *Main Isoflavones Found in Dietary Sources as Natural Anti-inflammatory Agents*, Current Drug Targets, **19**(7), pp. 841-853, <https://doi.org/10.2174/1389450118666171109150731>, **2018 (I.F = 2.277)**
61. D.E. Coricovac<sup>#</sup>, **E.A. Moacă<sup>#</sup>** (**#-contribuție egală**), I. Pinzaru, C. Cîtu, C. Șoica, C.V. Mihali, C. Păcurariu, V.A. Tutelyan, A. Tsatsakis, C.A. Dehelean, *Biocompatible Colloidal Suspensions Based on Magnetic Iron Oxide Nanoparticles: Synthesis, Characterization and Toxicological Profile*, Frontiers in Pharmacology, **8**(154), pp. 1-18, <https://doi.org/10.3389/fphar.2017.00154>, **2017 (I.F = 3.831)**
62. I.Z. Pavel, O.A. Iftode, I. Pinzaru, D. Coricovac, **A. Moacă**, C. Farcaș, S.C. Simu, C. Șoica, C. Dehelean, A. Motoc, *Skin Specific Cells and UVB Damage - An experimental assessment*, Revista de Chimie, **68**(6), pp. 1227-1231, **2017 (I.F = 1.412)**
63. F. Ardelean, D. Susan, F. Borcan, **E.A. Moacă**, D.S. Antal, C. Șoica, R. Moldovan, D.B. Vaduva, D. Marti, *Synthesis and physico-chemical evaluation of polyurethane microstructures for transmembrane delivery of reynoutria japonica extract*, Materiale Plastice, **54**(4), pp. 651-654, **2017 (I.F = 1.248)**
64. C. Păcurariu, **E.A. Tăculescu (Moacă)**, R. Ianoș, O. Marinică, C.V. Mihali, V. Socoliuc, *Synthesis and characterization of gamma-Fe<sub>2</sub>O<sub>3</sub>/SiO<sub>2</sub> composites as possible candidates for magnetic paper manufacture*,

65. R. Ianoş, **E.A. Tăculescu (Moacă)**, C. Păcurariu, D. Niznansky, *gamma-Fe<sub>2</sub>O<sub>3</sub> nanoparticles prepared by combustion synthesis, followed by chemical oxidation of residual carbon with H<sub>2</sub>O<sub>2</sub>*, Materials Chemistry and Physics, **148**(3), pp. 705-711, <https://doi.org/10.1016/j.matchemphys.2014.08.038>, **2014** (I.F = 2.259)
66. M. Rajnak, J. Kurimsky, B. Dolnik, P. Kopcansky, N. Tomasovicova, **E.A. Tăculescu-Moacă**, M. Timko, *Dielectric-spectroscopy approach to ferrofluid nanoparticle clustering induced by an external electric field*, Physical Review E, **90**(3), Article Number: 032310, <https://doi.org/10.1103/PhysRevE.90.032310>, **2014** (I.F = 2.288)
67. V. Păunescu, M.F. Bojin, O.I. Gavriluc, **E.A. Tăculescu**, R. Ianoş, V.L. Ordodi, V.F. Iman, C.A. Tatu, *Enucleation: a possible mechanism of cancer cell death*, Journal of Cellular and Molecular Medicine, **18**(6), pp. 962-965, <https://doi.org/10.1111/jcmm.12271>, **2014** (I.F = 4.014)
68. V. Socoliuc, C. Daia, **E.A. Tăculescu**, L. Vékás, *Colloidal stability loss with increasing dilution of polar carrier based magnetic colloids stabilized by steric repulsion*, Revista de Chimie, **64**(10), pp. 1194-1196, **2013** (I.F = 0.677)
69. M. Rajnak, J. Kurimsky, B. Dolnik, K. Marton, L. Tomco, **E.A. Tăculescu**, L. Vékás, J. Kovac, I. Vavra, J. Tothova, P. Kopcansky, M. Timko, *Dielectric response of transformer oil based ferrofluid in low frequency range*, Journal of Applied Physics, **114**(3), pp. 034313-1 – 034313-6, <https://doi.org/10.1063/1.4816012>, **2013** (I.F = 2.185)
70. R. Ianoş, **E.A. Tăculescu**, C. Păcurariu, I. Lazău, *Solution Combustion Synthesis and Characterization of Magnetite, Fe<sub>3</sub>O<sub>4</sub>, Nanopowders*, Journal of the American Ceramic Society, **95**(7), pp. 2236-2240, <https://doi.org/10.1111/j.1551-2916.2012.05159.x>, **2012** (I.F = 2.107)
71. M. Timko, P. Kopcansky, M. Molcan, L. Tomco, K. Marton, S. Molokac, P. Rybar, F. Stoian, S. Holotescu, **E.A. Tăculescu**, *Magnetodielectric Properties of Transformer Oil Based Magnetic Fluids*, Acta Physica Polonica A, **121**(5-6), pp. 1253-1256, <https://doi.org/10.12693/APHYSPOLA.121.1253>, **2012** (I.F = 0.531)
72. M. Timko, K. Marton, L. Tomco, J. Kiraly, M. Molcan, M. Rajnak, P. Kopcansky, R. Cimbala, F. Stoian, S. Holotescu, **E.A. Tăculescu**, *Magneto-dielectric properties of transformer oil based magnetic fluids in the frequency range up to 2 MHz*, Magnetohydrodynamics, **48**(2), pp. 427-434, <https://doi.org/10.22364/MHD.48.2.21>, **2012** (I.F = 0.550)
73. P. Papaphilippou, M. Christodoulou, O. Marinică, **E.A. Tăculescu**, L. Vékás, K. Chrissafis, T. Krasia-Christoforou, *Multi-responsive polymer conetworks capable of responding to changes in pH, temperature and magnetic field: synthesis, characterization and evaluation of their ability for controlled uptake and release of solutes*, ACS Applied Materials & Interfaces, **4**(4), pp. 2139-2147, <https://doi.org/10.1021/am300144w>, **2012** (I.F = 5.008)
74. I. Savva, G. Krekos, **E.A. Tăculescu**, O. Marinică, L. Vékás, T. Krasia-Christoforou, *Fabrication and characterization of magneto-responsive electrospun nanocomposite membranes based on methacrylic random copolymers and magnetite nanoparticles*, Journal of Nanomaterials, 578026, <https://doi.org/10.1155/2012/578026>, **2012** (I.F = 1.547)
75. P. Papaphilippou, A. Pourgouris, O. Marinică, **E.A. Tăculescu**, G.I. Athanasopoulos, L. Vékás, T. Krasia-Christoforou, *Fabrication and characterization of superparamagnetic and thermoresponsive hydrogels based on oleic-acid-coated Fe<sub>3</sub>O<sub>4</sub> nanoparticles, hexa(ethylene glycol) methyl ether methacrylate and 2-(acetoacetoxymethyl) methacrylate*, Journal of Magnetism and Magnetic Materials, **323**(5), pp. 557-563, <https://doi.org/10.1016/j.jmmm.2010.10.009>, **2011** (I.F = 1.780)



76. A. Popa, C. Păcurariu, **E.A. Tăculescu**, L. Lupa, *Sol-gel synthesized sorbents for Cu<sup>2+</sup> and Cd<sup>2+</sup> separation from solutions*, Optoelectronics and Advanced Materials - Rapid Communications, **4**(3), pp. 340-344, **2010 (I.F. = 0.477)**

## II. Articole publicate în extenso în reviste indexate ISI proceedings

1. F.D. Stoian, S. Holotescu, **E.A. Tăculescu**, O. Marinică, D. Resiga, M. Timko, P. Kopcansky, M. Rajnak, *Characteristic properties of a magnetic nanofluid used as cooling and insulating medium in a power transformer*, 8<sup>th</sup> International Symposium on Advanced Topics in Electrical Engineering, ATEE 2013, Bucharest, Romania, 23-25 Mai 2013, <https://doi.org/10.1109/ATEE.2013.6563463>, Article number 6563463, **2013**
2. I. Savva, D. Constantinou, L. Evaggelou, O.M. Marinică, **E.A. Tăculescu**, L. Vékás, *PEO/PLLA and PVP/PLLA-based magnetoresponsive nanocomposite membranes: Fabrication via electrospinning, characterization and evaluation in drug delivery*, Euromembrane Conference, Westminster, London, United Kingdom, 23-27 Septembrie 2012, <https://doi.org/10.1016/j.proeng.2012.08.674>, Procedia Engineering, **44**, pp. 1052-1053, **2012**
3. I. Sawa, O.M. Marinică, **E.A. Tăculescu**, L. Vékás, T. Krasia-Christoforou, *Superparamagnetic nanocomposite PEO/PLLA-based fibrous membranes: Synthesis, characterization and evaluation in drug release applications*, Euromembrane Conference, Westminster, London, United Kingdom, 23-27 Septembrie 2012, <https://doi.org/10.1016/j.proeng.2012.08.673>, Procedia Engineering, **44**, pp. 1050-1051, **2012**
4. V. Socoliuc, **E.A. Tăculescu**, C. Podaru, A. Dobra, C. Daia, O. Marinică, R. Turcu, L. Vékás, *Clustering in water based magnetic nanofluids: investigations by light scattering methods*, AIP Conference Proceedings - 8<sup>th</sup> International Conference on the Scientific and Clinical Applications of Magnetic Carriers, Rostock, Germany, 25-29 Mai 2010, <https://doi.org/10.1063/1.3530065>, **1311**, pp. 89-95, **2010**
5. R. Turcu, A. Nan, I. Crăciunescu, C. Leostean, S. Macavei, **E.A. Tăculescu**, O. Marinică, C. Daia, L. Vékás, *Synthesis and characterization of magnetically controllable nanostructures using different polymers*, AIP Conference Proceedings - 8<sup>th</sup> International Conference on the Scientific and Clinical Applications of Magnetic Carriers, Rostock, Germany, 25-29 Mai 2010, <https://doi.org/10.1063/1.3530014>, **1311**, pp. 20-27, **2010**

## III. Articole publicate în rezumat în reviste indexate ISI Web of Knowledge

1. **E.A. Moaca**, I. Marcovici, A.D. Semenescu, A.R. Jijie, T. Mateescu, C.G. Watz, G.A. Drăghici, D. Flondor, C. Oancea, C.A. Dehelean. *Biologic impact of green solid-lipid nanoparticles on bronchial 3D human reconstructed tissue*. Toxicology Letters, 399, Supplement 2, pp. S113, Meeting Abstract, P02-24, ISSN 0378-4274, <https://doi.org/10.1016/j.toxlet.2024.07.294>, **2024 (I.F. = 2.9)**
2. A.D. Semenescu, **E.A. Moaca**, C. Watz, A. Anton, A. Geamantan, A.M. Kis, C. Dumitrescu, R. Chioibas, C.A. Dehelean. *Phytochemical characterization and in vitro assessment of Galium mollugo L. extract on murine melanoma cells*. Toxicology Letters, 399, Supplement 2, pp. S101-S102, Meeting Abstract P01-77, ISSN 0378-4274, <https://doi.org/10.1016/j.toxlet.2024.07.266>, **2024 (I.F. = 2.9)**
3. A. Geamantan, A.D. Semenescu, **A.E. Moaca**, I. Marcovici, A. Anton, C.A. Dehelean. *In vitro assesment of the safety profile of caffeine and magnesium ascorbyl phosphatate incorporated in HPMC on human keratinocytes*. Toxicology Letters, 399, Supplement 2, pp. S103, Meeting Abstract P01-80, ISSN 0378-4274, <https://doi.org/10.1016/j.toxlet.2024.07.269>, **2024 (I.F. = 2.9)**
4. G.A. Draghici, **A. Moaca**, D. Nica, S. Ardelean, S. Simu, C. Dehelean. *Modulation of glucose-lipid metabolism in Type II Diabetes through butyric acid-mediated epigenetic regulation: a probiotic intervention study in mice*. Toxicology Letters, 399, Supplement 2, pp. S349, Meeting Abstract P24-03, ISSN 0378-4274, <https://doi.org/10.1016/j.toxlet.2024.07.831>, **2024 (I.F. = 2.9)**

5. Semenescu, AD; **Moaca, EA**; Vlase, L; Vlase, AM; Dehelean, CA. *Physicochemical screening and preliminary in vitro assessment of Galium verum L. alcoholic extract*. Toxicology Letters, **384**, Supplement 1, pp. S200-S200, Meeting Abstract P16-50, [https://doi.org/10.1016/S0378-4274\(23\)00739-7](https://doi.org/10.1016/S0378-4274(23)00739-7), **2023 (I.F = 2.9)**
6. Magyari-Pavel, IZ; Vlaia, L; **Moaca, EA**; Barbu, L; Muntean, D; Cioca, A; Avram, S; Minda, D; Muntean, DM; Csuk, R; Dehelean, CA; Danciu, C. *Maslinic Acid Derivative Nanoemulsion: Physicochemical Characterization, Antimicrobial Activity and Three-Dimensional (3D) Reconstructed Human Epidermal Model Screening*. Planta Medica, **88**(15), pp. 1574-1574, Meeting Abstract 386, **2022 (I.F = 2.7)**
7. Coricovac, D; Pinzaru, IA; Marcovici, I; Iftode, AO; **Moaca, A**; Macasoi, I; Vlaia, L; Dehelean, C. *Betulinic acid formulated as proniosomal gel - a promising candidate for skin cancer management*. Toxicology Letters, **368**, pp. S195-S195, Supplement S, Meeting Abstract P12-51, <https://doi.org/10.1016/j.toxlet.2022.07.530>, **2022 (I.F = 3.5)**
8. C.G. Farcas, **E.A. Moacă**, D. Coricovac, C. Dehelean, F. Loghin. *In vitro antiproliferative effects of Fe<sub>3</sub>O<sub>4</sub>\_BA loaded liposomes*. Toxicology Letters, **295**, pp. S113, Supplement 1, Meeting Abstract P06-26, <https://doi.org/10.1016/j.toxlet.2018.06.646>, **2018 (I.F = 3.499)**
9. C.A. Dehelean, I. Pinzaru, D. Ionescu, **A. Moacă**, D. Coricovac, C. Soica. *Reproducible animal models used for external toxicants tests*. Toxicology Letters, **258**, pp. S289-S289, Supplement S, Meeting Abstract P19-021, <https://doi.org/10.1016/j.toxlet.2016.06.2006>, **2016 (I.F = 3.858)**

#### IV. Articole publicate in extenso în reviste indexate CNCSIS B/B+ (BDI)

1. M. Preda, E. Sisui, V. Vlaia, T. Olariu, **A. Moaca**, L.C. Borcan, F. Borcan, *In vitro experimental evaluations of birch bark extracts with selectivity in the obtaining of betulinol*, Journal of Agroalimentary Processes and Technologies, **24**(4), pp. 289-294, **2018**
2. F. Ardelean, **E.A. Moacă\*** (\*-autor corespondent), C. Păcurariu, D.S. Antal, C. Dehelean, C.C. Toma, S. Drăgan, *Invasive polygonum cuspidatum: physico-chemical analysis of a plant extract with pharmaceutical potential*, Studia Universitatis "Vasile Goldiș", Seria Științele Vieții, **26**(4), pp. 415-421, **2016**

#### V. Articole publicate în rezumat în volume de rezumate românești cu ISBN

1. A.D. Semenescu, **A. Moacă**, I. Pinzaru, C.A. Dehelean. *Cytotoxicity Assessment of Galium verum Extract in Melanoma*, în: *Tehnici curente de obținere, caracterizare și testare a resurselor vegetale și produselor derivate*-Volum de rezumate, editori: C. Dehelean, I. Pinzaru, I. Macasoi, Editura „Victor Babeș” Timișoara, pag. 8, **2023**, ISBN 978-606-786-300-0
2. A.D. Semenescu, **A. Moacă**, C.A. Dehelean. *Green Synthesis of Gold Nanoparticles Using Galium Sp. Extract – Promising Candidates in Melanoma*, în: *Tehnici curente de obținere, caracterizare și testare a resurselor vegetale și produselor derivate*-Volum de rezumate, editori: C. Dehelean, I. Pinzaru, I. Macasoi, Editura „Victor Babeș” Timișoara, pag. 10, **2023**, ISBN 978-606-786-300-0
3. **E.A. Moacă**, C.G. Watz, D. Flondor, A. Semenescu, D. Minda, S. Liga, G.A. Drăghici, A. Iftode, C.A. Dehelean. *In vitro biologic impact of green synthesized magnetic nanoparticles on two different lung 2D tumorigenic cell lines*, în: *Tehnici curente de obținere, caracterizare și testare a resurselor vegetale și produselor derivate*-Volum de rezumate, editori: C. Dehelean, I. Pinzaru, I. Macasoi, Editura „Victor Babeș” Timișoara, pag. 11, **2023**, ISBN 978-606-786-300-0
4. C.G. Watz, **E.A. Moacă**, A.C. Faur, A. Semenescu, C.A. Dehelean. *Acute Biosafety Screening of Plant-Mediated Magnetic Nanoparticles on 3D Epi-airway Microtissues*, în: *Tehnici curente de obținere, caracterizare și testare a resurselor vegetale și produselor derivate*-Volum de rezumate, editori: C.

- Dehelean, I. Pinzaru, I. Macașoi, Editura „Victor Babeș” Timișoara, pag. 13, **2023**, ISBN 978-606-786-300-0
5. **E.A. Moacă**, C.G. Watz, D. Flondor, A. Semenescu, S. Liga, V. Socoliuc, G.A. Drăghici, A. Iftode, C.A. Dehelean. *Bioactive Magnetic Nanoparticles – A Suitable Tool for Hyperthermia Applications*, în: *Tehnici curente de obținere, caracterizare și testare a resurselor vegetale și produselor derivate*-Volum de rezumate, editori: C. Dehelean, I. Pinzaru, I. Macașoi, Editura „Victor Babeș” Timișoara, pag. 14, **2023**, ISBN 978-606-786-300-0
  6. C.G. Watz, **E.A. Moacă**, M. Nicolov, C.A. Dehelean. *Combined Chemo-Thermo-Therapy - An Innovative Approach for Melanoma Treatment*, în: *Tehnici curente de obținere, caracterizare și testare a resurselor vegetale și produselor derivate*-Volum de rezumate, editori: C. Dehelean, I. Pinzaru, I. Macașoi, Editura „Victor Babeș” Timișoara, pag. 15, **2023**, ISBN 978-606-786-300-0
  7. I.Z. Magyari-Pavel, D. Muntean, B. Badescu, S. Avram, L. Bora, D. Minda, **E.A. Moacă**, L. Jimon, D.M. Muntean, C.A. Dehelean, C. Danciu. *Assessment of Olea europaea L. Extract in Vitro Effects*, în: *Tehnici curente de obținere, caracterizare și testare a resurselor vegetale și produselor derivate*-Volum de rezumate, editori: C. Dehelean, I. Pinzaru, I. Macașoi, Editura „Victor Babeș” Timișoara, pag. 16, **2023**, ISBN 978-606-786-300-0
  8. I.Z. Pavel, C. Danciu, S. Avram, **E.A. Moacă**, A. Lombrea, O.M. Aburel, D.M. Muntean, R. Csuk, C.A. Dehelean, *Assessment of a Benzylamide Derivative of Maslinic Acid Effects on Human Keratinocytes*, în: *Plante medicinale între natură și sănătate*, editori: C. Dehelean, I. Pinzaru, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 6, **2021**, ISBN 978-606-786-253-9
  9. **E.A. Moacă**, C.G. Watz, A.D. Scurtu, D. Flondor (Ionescu), D. Dragoș, G.A. Drăghici, C.A. Dehelean, *Betulinic acid – conjugated magnetic nanoparticles. Design of a potential theranostic nanoplatfrom*, în: *Plante medicinale între natură și sănătate*, editori: C. Dehelean, I. Pinzaru, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 9, **2021**, ISBN 978-606-786-253-9
  10. D. Minda, C. Watz, I.Z. Pavel, Ș. Avram, C. Danciu, S. Florescu, S. Iurciuc, C. Dehelean, G.A. Drăghici, **E.A. Moacă**, *Green biosynthesis of iron oxide magnetic nanoparticles and their biomedical applications in targeted anticancer drug delivery system*, în: *Plante medicinale între natură și sănătate*, editori: C. Dehelean, I. Pinzaru, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 19, **2021**, ISBN 978-606-786-253-9
  11. D. Minda, I.Z. Pavel, C. Danciu, R. Ghiulai, I. Macasoi, D. Coricovac, I. Pinzaru, **A.E. Moaca**, C. Soica, C. Dehelean, S. Avram, *Sweet wormwood phytochemical analysis and bioactive effects on CAM assay*, în: *Plante medicinale între natură și sănătate*, editori: C. Dehelean, I. Pinzaru, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 27, **2021**, ISBN 978-606-786-253-9
  12. S. Liga, **E.A. Moacă**, D. Flondor (Ionescu), D. Dragoș, C.A. Dehelean, *Physicochemical screening and biological evaluation of Aesculus hippocastanum extracts with potential therapeutic applications in dermato-cosmetology*, în: *Plante medicinale între natură și sănătate*, editori: C. Dehelean, I. Pinzaru, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 32, **2021**, ISBN 978-606-786-253-9
  13. A. Scurtu, I. Pinzaru, **A. Moacă**, C.A. Dehelean, *Analysis of Galium species from Romanian flora and importance in dermatology*, în: *Aplicații ale Metodelor Experimentale în Analiza Produselor Cosmetice cu Principii Active*, editori: C.A. Dehelean, I. Pinzaru, C. Șoica, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 13, **2020**, ISBN 978-606-786-156-3
  14. **E.A. Moacă**, I.Z. Pavel, Ș. Avram, D. Coricovac, R.M. Racoviceanu, R. Ghiulai, R.D. Pană, C.M. Șoica, F. Borcan, O.M. Cretu, C.A. Dehelean, *Assessment of lemon balm leaf aqueous extract. physicochemical screening, biological effects and bioactivity on mice skin*, în: *Aplicații ale Metodelor Experimentale în Analiza Produselor Cosmetice cu Principii Active*, editori: C.A. Dehelean, I. Pinzaru, C. Șoica, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 32, **2020**, ISBN 978-606-786-156-3
  15. I.Z. Pavel, S. Avram, V.G. Ciobotaru, **E.A. Moacă**, A. Lombrea, D. Minda, A.D. Scurtu, D.M. Muntean, C.A. Dehelean, C. Danciu, *Assessment of Punica Granatum L. Seed Extract Effects*, în: *Aplicații ale*

- Metodelor Experimentale în Analiza Produselor Cosmetice cu Principii Active*, editori: C.A. Dehelean, I. Pînzaru, C. Șoica, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 40, **2020**, ISBN 978-606-786-156-3
16. A.S. Păducel, I.Z. Pavel, D. Minda, I. Macașoi, I. Pînzaru, **A. Moacă**, R. Ghiulai, C. Șoica, C. Dehelean, C. Danciu, S. Avram, *Sweet basil extracts with antioxidant potential show in vivo antiirritative and wound healing effects*, în: *Aplicații ale Metodelor Experimentale în Analiza Produselor Cosmetice cu Principii Active*, editori: C.A. Dehelean, I. Pînzaru, C. Șoica, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 42, **2020**, ISBN 978-606-786-156-3
  17. C.G. Watz, **E.A. Moacă**, M. Nicolov, M. Șuta, C.A. Dehelean, *Lipid-based nanocarriers – promising candidates for cosmetic*, în: *Aplicații ale Metodelor Experimentale în Analiza Produselor Cosmetice cu Principii Active*, editori: C.A. Dehelean, I. Pînzaru, C. Șoica, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 65, **2020**, ISBN 978-606-786-156-3
  18. C.G. (Farcaș) Watz, **A. Moacă**, C.A. Dehelean, F. Loghin, *Evaluation of magnetite nanoparticles for topical use through complex alternative in vitro method*, în: *Produsele Dermato-Cosmetice ca Formulare. Testarea Siguranței Produselor Cosmetice*, editori: C. Dehelean, I. Pînzaru, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 25, **2020**, ISBN 978-606-786-155-6
  19. **E.A. Moacă**, C.G. Farcaș, I.Z. Pavel, Ș. Avram, D.E. Coricovac, C.A. Dehelean, *Use of vegetable oils in green synthesis of nano-sized magnetic particles as new topical approaches used as sunscreen*, în: *Produsele Dermato-Cosmetice ca Formulare. Testarea Siguranței Produselor Cosmetice*, editori: C. Dehelean, I. Pînzaru, D. Coricovac, Editura „Victor Babeș” Timișoara, pag. 47, **2020**, ISBN 978-606-786-155-6
  20. S. Liga, **E.A. Moacă**, C.A. Dehelean, *Determination and characterization of phenolic compounds from Passiflora edulis – different applications in skin cosmetics*, în: *Produsele Dermato-Cosmetice ca Formulare. Testarea Siguranței Produselor Cosmetice*, editori: C. Dehelean, I. Pînzaru, D. Coricovac, Editura „Victor Babeș” Timișoara, pag.56, **2020**, ISBN 978-606-786-155-6
  21. S. Simu, D. Coricovac, I. Pînzaru, **A. Moacă**, I. Macașoi, G. Drăghici, D. Navolan, *Ultraviolet radiation amplifies the noxious effects of sodium lauryl sulfate at skin level*, în: *Siguranța Produselor pe Bază de Plante Medicinale*, editori: C. Dehelean, I. Pînzaru, D. Coricovac, Editura “Victor Babeș” Timișoara, pag. 42, **2018**, ISBN 978-606-786-104-4
  22. Ș. Avram, C. Danciu, I.Z. Pavel, D. Minda, R. Ghiulai, I. Macasoi, D. Coricovac, I. Pînzaru, **A.E. Moacă**, D. Cîrcioban, C. Soica, C. Dehelean, *Safety and wound healing effects of three Artemisia species*, în: *Siguranța Produselor pe Bază de Plante Medicinale*, editori: C. Dehelean, I. Pînzaru, D. Coricovac, Editura “Victor Babeș” Timișoara, pag. 47, **2018**, ISBN 978-606-786-104-4
  23. Ș. Avram, C. Danciu, I.Z. Pavel, D. Minda, R. Ghiulai, I. Pînzaru, I. Macasoi, D. Coricovac, **A.E. Moacă**, M. Mioc, C. Soica, C. Dehelean, *The effect of lemon balm extracts on MCF-7 and MDA-MB-231 breast cancer cells*, în: *Siguranța Produselor pe Bază de Plante Medicinale*, editori: C. Dehelean, I. Pînzaru, D. Coricovac, Editura “Victor Babeș” Timișoara, pag. 49, **2018**, ISBN 978-606-786-104-4
  24. **E.A. Moacă**, I.Z. Pavel, C.A. Dehelean, *Antioxidant and cytotoxic effects of an aqueous extract based on Artemisia absinthium L. collected from the west part of Romania*, în: *Siguranța Produselor pe Bază de Plante Medicinale*, editori: C. Dehelean, I. Pînzaru, D. Coricovac, Editura “Victor Babeș” Timișoara, pag. 58, **2018**, ISBN 978-606-786-104-4
  25. C.G. Farcaș, M. Nicolov, **A. Moacă**, C. Dehelean, *The antioxidant activity of betulinic acid with ascorbic acid crystals*, în: *Phytocompounds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity*, editori: D. Antal, E. Ollivier, Editura „Victor Babeș” Timișoara, pag. 33, **2016**, ISBN 978-606-786-024-5



## VI. Comunicări științifice prezentate la manifestări naționale și internaționale

1. **E.A. Moaca**, I. Marcovici, A.D. Semenescu, A.R. Jijie, T. Mateescu, C.G. Watz, G.A. Drăghici, D. Flondor, C. Oancea, C.A. Dehelean. *Biologic impact of green solid-lipid nanoparticles on bronchial 3D human reconstructed tissue*. 58<sup>th</sup> Congress of the European Societies of Toxicology (EUROTOX), P02-24, Copenhagen, Danemarca, 8-11 septembrie **2024** (poster)
2. **A.D. Semenescu**, **E.A. Moaca**, C. Watz, A. Anton, A. Geamantan, A.M. Kis, C. Dumitrescu, R. Chioibas, C.A. Dehelean. *Phytochemical characterization and in vitro assessment of Galium mollugo L. extract on murine melanoma cells*. 58<sup>th</sup> Congress of the European Societies of Toxicology (EUROTOX), P01-77, Copenhagen, Danemarca, 8-11 septembrie **2024** (poster)
3. **A. Geamantan**, **A.D. Semenescu**, **A.E. Moaca**, I. Marcovici, A. Anton, C.A. Dehelean. *In vitro assesment of the safety profile of caffeine and magnesium ascorbyl phospate incorporated in HPMC on human keratinocytes*. 58<sup>th</sup> Congress of the European Societies of Toxicology (EUROTOX), P01-80, Copenhagen, Danemarca, 8-11 septembrie **2024** (poster)
4. **G.A. Draghici**, **A. Moaca**, D. Nica, S. Ardelean, S. Simu, C. Dehelean. *Modulation of glucose-lipid metabolism in Type II Diabetes through butyric acid-mediated epigenetic regulation: a probiotic intervention study in mice*. 58<sup>th</sup> Congress of the European Societies of Toxicology (EUROTOX), P24-03, Copenhagen, Danemarca, 8-11 septembrie **2024** (poster)
5. **A.D. Semenescu**, **E.A. Moaca**, D.S. Antal, L. Vlase, A.M. Vlase, C.A. Dehelean. *Evaluarea bioactivității extractului de eter etilic de Galium Verum L.* Simpozion național cu participare internațională – de la Etnofarmacologie la Fitomedicină. Societatea Română de Etnofarmacologie (SRE), Brașov, România, 23-25 iunie **2023** (poster)
6. **A.D. Semenescu**, **E.A. Moaca**, D. Antal, D. Muntean, L. Vlase, A.M. Vlase, C.A. Dehelean. *Evaluation of the bioactivity of aqueous Galium verum L. Extract*. Congresul Național de Farmacie Ediția a XIX-a, Farmacia azi: de la tradiție la interdisciplinaritate și inteligență artificială, Cluj-Napoca, România, 27 - 29 septembrie **2023** (poster)
7. **A.D. Semenescu**, **E.A. Moacă**, L. Vlase, A.M. Vlase, I. Pinzaru, C.A. Dehelean. *Cytotoxicity assessment of Galium verum extracts on human melanoma cells*. 8<sup>th</sup> German Pharm-Tox Summit, British Society of Toxicological Pathology (BSTP), German Society for Experimental and Clinical Pharmacology and Toxicology / Deutsche Gesellschaft fur experimentelle und klinische Pharmakologie und Toxikologie e. V. (DGPT), Ulm, Germania, 6-9 martie **2023** (poster)
8. **A.D. Scurtu (Semenescu)**, **E.A. Moacă**, L. Vlase, A.M. Vlase, C.A. Dehelean. *Physicochemical screening and preliminary in vitro assessment of Galium verum L. alcoholic extract*. 57<sup>th</sup> Congress of the European Societies of Toxicology (EUROTOX 2023), P16-50, Ljubljana, Slovenia, 10-13 septembrie **2023** (poster)
9. **I.Z. Magyari-Pavel**, L. Vlaia, **E.A. Moacă**, L. Barbu, D. Muntean, A. Cioca, S. Avram, D. Minda, D.M. Muntean, R. Csuk, C.A. Dehelean, C. Danciu. *Maslinic Acid Derivative Nanoemulsion: Physicochemical Characterization, Antimicrobial Activity and Three-Dimensional (3D) Reconstructed Human Epidermal Model Screening*. GA – 70<sup>th</sup> Annual Meeting 2022, Decembrie **2022**, Planta Medica 88(15):1574, <https://doi.org/10.1055/s-0042-1759355> (poster)
10. **Coricovac, D**; Pinzaru, IA; Marcovici, I; Iftode, AO; **Moaca, A**; Macasoi, I; Vlaia, L; Dehelean, C. *Betulinic acid formulated as proniosomal gel - a promising candidate for skin cancer management*. 16<sup>th</sup> International Congress of Toxicology (EUROTOX), P12-51, Maastricht, Olanda, 18-21 septembrie **2022** (poster)
11. **E.A. Moacă**, C.G. Watz, L. Barbu-Tudoran, R. Racoviceanu, G.A. Drăghici, Daniel Pop, C.A. Dehelean. *Green synthesis of  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles using Artemisia absinthium L. aqueous leaf and stems extracts and their biological assessment on healthy and melanoma cell lines*. 18<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN21), Salonic, Grecia, 6-9 iulie **2021** (poster)

12. C.G. Watz, **E.A. Moacă**, I.Z. Pavel, L.M. Șuta, M. Nicolov, F. Loghin, C.A. Dehelean. *Iron Oxide Nanoparticles: An Advanced Screening Employing Three-Dimensional (3D) Reconstructed Human Epidermal Model*. 18<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN21), Salonic, Grecia, 6-9 iulie **2021** (poster)
13. I.Z. Pavel, **E.A. Moacă**, S. Avram, C. Danciu, V.G. Ciobotaru, R. Csuk, D.M. Muntean, C.A. Dehelean. *Assessment of the Antiangiogenic and Cytotoxic Properties of a Maslinic Acid Derivative Nanoemulsion on HaCaT Keratinocytes and A375 Melanoma Cell Lines*. 18<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN21), Salonic, Grecia, 6-9 iulie **2021** (poster)
14. I.Z. Pavel, O.M. Aburel, C. Danciu, Ș. Avram, **E.A. Moacă**, A.D. Scurtu, R. Csuk, D.M. Muntean, C.A. Dehelean, *Assessment of the effects of a benzylamide derivative of maslinic acid on cellular bioenergetics in A375 human melanoma cells*, XIII National Congress of Romanian Society of Physiology, Books of Abstracts, pp. 63, Târgu Mureș, România, 22-24 octombrie **2020** (poster)
15. I.Z. Pavel, C. Danciu, S. Avram, D. Minda, O.M. Aburel, **E.A. Moacă**, C. Watz, C.A. Dehelean, R. Csuk, D.M. Muntean, *Assessment of the cytotoxic and antimigratory effects of a benzylamide derivative of maslinic acid on B16F0 murine melanoma cell line*, XIII National Congress of Romanian Society of Physiology, Books of Abstracts, pp. 64, Târgu Mureș, România, 22-24 octombrie **2020** (poster)
16. **E.A. Moacă**, C.A. Dehelean, *Green Biosynthesis and Physico-Chemical Characterization of Magnetic Iron Oxide Nanoparticles ( $Fe_3O_4$ ) using Artemisia absinthium L. aqueous extract*, 4<sup>th</sup> International Conference on Natural Products Utilization, From Plants to Pharmacy Shelf, Resort Albena, Bulgaria, Book of Abstracts pp. 254, ISSN: 2682-9487, Editor: Dr. Milen I. Georgiev, 29 mai – 01 iunie **2019** (poster)
17. **E.A. Moacă**, I.Z. Pavel, C.A. Dehelean, *Artemisia absinthium L. – antioxidant activity and cytotoxic effect on MCF7 and A375 human tumor cell lines*, 4<sup>th</sup> International Conference on Natural Products Utilization, From Plants to Pharmacy Shelf, Resort Albena, Bulgaria, Book of Abstracts pp. 255, ISSN: 2682-9487, Editor: Dr. Milen I. Georgiev, 29 mai – 01 iunie **2019** (poster)
18. D.S. Antal, F. Ardelean, **A. Moacă**, C. Dehelean, *Sambucus Nigra: contributions to the phytochemical investigation of its flowers and herbal tea*, 4<sup>th</sup> International Conference on Natural Products Utilization, From Plants to Pharmacy Shelf, Resort Albena, Bulgaria, Book of Abstracts pp. 382, ISSN: 2682-9487, Editor: Dr. Milen I. Georgiev, 29 mai – 01 iunie **2019** (poster)
19. **E.A. Moacă**, C. Farcaș, D. Coricovac, F. Loghin, C. Dehelean, C. Păcurariu, *Citric Acid Coated Magnetic Iron Oxide Nanoparticles ( $Fe_3O_4$ ): Synthesis, Characterization and Applications*, The 5<sup>th</sup> Edition of Nanotech France 2019, International Conference and Exhibition, Paris, Franța, Book of Abstracts pp. 157; Organizator: Setcor Conferences and Exhibitions, 26 – 28 iunie 2019, [www.setcor.org](http://www.setcor.org) **2019** (poster)
20. A. Căpraru, R. Ianoș, **E.A. Moacă**, R. Lazău, A. Ianculescu, V.A. Surdu, C. Păcurariu, *Preparation and characterization of stable colloidal suspensions based on magnetic iron oxide nanoparticles obtained by combustion synthesis*, 5<sup>th</sup> Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC5) and 14<sup>th</sup> Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta2019), Roma, Italia, Andrei Rotaru & Stefano Vecchio Cipriotti (Ed.), Book of Abstracts PS2.082 pp. 372, ISBN 978-3-940237-59-0, 27-30 august **2019** (poster)
21. **E.A. Tăculescu (Moacă)**, R.M. Racoviceanu, I.Z. Pavel, C.M. Șoica, C.A. Dehelean, *Grafting of 2-hydroxypropyl-β-cyclodextrin on oleic acid – modified iron oxide nanoparticles as anti-melanoma compounds*, Zilele Universității de Medicină și Farmacie „Victor Babeș” Timișoara, Timișoara, Romania, 11 decembrie **2019** (poster)
22. C.G. Farcaș, **E.A. Moacă**, D. Coricovac, C. Dehelean, F. Loghin. *In vitro antiproliferative effects of  $Fe_3O_4$ -BA loaded liposomes*. 54<sup>th</sup> Congress of the European Societies of Toxicology (EUROTOX), P06-26, Bruxel, Belgia, 2 - 5 septembrie **2018** (poster)
23. M. Nicolov, C. Soica, R. Roman, R. Ambrus, I. Zupko, **E.A. Moacă**, I. Ledeti, D. Coricovac, C. Farcaș, C.A. Dehelean, *Analysis of monosolvates of betulinc acid with vitamin C*, International Conference of

Medicinal Plants Research (ICMPR-2018), Varşovia, Polonia, Book of Abstracts pp. 19, Ref. code ICMPR-2018-22-036, Published by: APCO Practical Education and Research Organization, Varşovia, Polonia, 26 martie **2018** (poster)

24. D.S. Antal, **A. Moacă**, D. Cionchi, F. Ardelean, A. Chis, A. Dragomirescu, C. Dehelean, *Tissue localization of secondary metabolites and antioxidant activity of Elettaria cardamomum vegetative parts grown in Europe*, International Conference of Medicinal Plants Research (ICMPR-2018), Varşovia, Polonia, Book of Abstracts pp. 71, Ref. code ICMPR-2018-22-034, Published by: APCO Practical Education and Research Organization, Varşovia, Polonia, 26 martie **2018** (poster)
25. S.L. Coşarcă, **E.A. Moacă**, C. Tănase, D.L. Muntean, I.Z. Pavel, S. Oroian, C.A. Dehelean, *Bark aqueous extracts correlated to in vitro antitumor potential on two different cell lines*, Scientific Anniversary Symposium - 70 Years from Foundation of University Botanical Garden, Tîrgu-Mureş 1948 — 2018, Acta Medica Marisiensis, vol. 64, supplement 3, pp. 10, ISSN: 2068 – 3324, Târgu-Mureş, România, **2018** [http://actamedicamarisiensis.ro/wp-content/uploads/2018/01/AMM\\_64\\_S3\\_web.pdf](http://actamedicamarisiensis.ro/wp-content/uploads/2018/01/AMM_64_S3_web.pdf) (prezentare orală)
26. **E.A. Moacă**, D. Coricovac, C. Dehelean, C. Păcurariu, *Oleic Acid Double Coated Iron Oxide Nanoparticles As New Relevant Biocompatible Nanoparticles with a Particular Mechanism of Activity*, 10<sup>th</sup> Congress of Toxicology in Developing Countries (CTDC 10), 12<sup>th</sup> Congress of the Serbian Society of Toxicology (12<sup>th</sup> SCT); 18-21 aprilie 2018, Belgrad, Serbia, Book of Abstracts pp. 145; ISBN: 978-86-917867-1-7, Editor: Vesna Matovic, **2018** (poster)
27. A. Ghitu, **E.A. Moacă**, C. Farcaş, D. Coricovac, C. Dehelean, Ş. Avram, C. Danciu, *FTIR characterization and cytotoxic effects of Melissa officinalis L. Ethanolic extracts against MDA-MB 231 breast cancer cell line*, Zilele Universităţii de Medicină şi Farmacie „Victor Babeş” Timişoara, 12 decembrie 2018, Timişoara, Romania, **2018** (poster)
28. F. Ardelean, **E.A. Moacă**, D.S. Antal, S. Drăgan, *Troscotul japonez – o specie invazivă ca sursă de fitocompuşi cu activitate antioxidantă*, Al VIII-lea Congres al Medicilor Fitoterapeuţi din România, 19-20 mai 2017, Sibiu, România, **2017** (prezentare orală)
29. R. Ianoş, R. Băbuţă, R. Lazău, E. Muntean, C. Păcurariu, A. Dabici, **A. Moacă**, *Single-step synthesis of LaAl<sub>0.95</sub>Cr<sub>0.05</sub>O<sub>3</sub> pigments and their nir-reflective properties*, New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection, 10<sup>th</sup> Edition, 08-09 iunie 2017, Timişoara, România, **2017** (prezentare orală)
30. R. Ianoş, E. Muntean, R. Lazău, R. Băbuţă, **A. Moacă**, C. Păcurariu, A. Dabici, R. Istratie, *Combustion synthesis of near-infrared reflective brown pigments based on iron-doped lanthanum aluminate*, 19<sup>th</sup> International Conference on Materials, Methods & Technologies, 26-30 iunie 2017, Elenite, Bulgaria, **2017** (poster)
31. R. Lazău, R. Ianoş, E. Muntean, R. Cornea, **A. Moacă**, R. Băbuţă, C. Păcurariu, A. Dabici, *Co and Cr – doped ZnAl<sub>2</sub>O<sub>4</sub> NIR-reflective pigments obtained via combustion synthesis*, 19<sup>th</sup> International Conference Materials, Methods and Technologies, 26-30 iunie 2017, Elenite, Bulgaria, **2017** (poster)
32. C. Soica, M. Mioc, D. Coricovac, C. Trandafirescu, R. Ghiulai, I. Pavel, C. Danciu, I. Pinzaru, **A. Moacă**, A. Dragomirescu, R.A. Popovici, C. Dehelean, *Betulin-conjugated gold nanoparticles with antitumor activity*, 7<sup>th</sup> BBBB International Conference on Pharmaceutical Sciences, New trends and achievements in Pharmaceutical Sciences and Pharmaceutical Practice, 5-7 octombrie 2017, Book of Abstracts pp. 208, Balatonfured, Ungaria, **2017** (poster)
33. C. Soica, M. Mioc, D. Coricovac, C. Trandafirescu, R. Ghiulai, I. Pavel, C. Danciu, I. Pinzaru, **A. Moacă**, A. Dragomirescu, R.A. Popovici, C. Dehelean, *Hollow gold nanoparticles loaded with betulin as anticancer agents*, 7<sup>th</sup> BBBB International Conference on Pharmaceutical Sciences, New trends and achievements in Pharmaceutical Sciences and Pharmaceutical Practice, 5-7 octombrie 2017, Book of Abstracts pp. 209, Balatonfured, Ungaria, **2017** (poster)
34. I. Pinzaru, D. Coricovac, I. Z. Pavel, M. Mioc, **A. Moacă**, C. Soica, C. Dehelean, *Betulin gold nanoparticles: a preliminary non-invasive evaluation of specific cutaneous parameters*, 3<sup>rd</sup> International

Conference on natural products utilization. From plants to pharmacy shelf, 18-21 octombrie 2017, Book of Abstracts pp. 174, ISSN: 978-619-7240-48-1, Bansko, Bulgaria, **2017** (poster)

35. M. Mioc, D. Coricovac, C. Trandafirescu, R. Ghiulai, I. Pavel, C. Danciu, I. Pinzaru, **A. Moaca**, C. Farcas, R.A. Popovici, C. Dehelean, R. Ambrus, C. Soica, *Comparative assessment of solid and hollow gold nanoparticles as antitumor nanoformulations*, 2<sup>nd</sup> International Caparica Christmas Conference on Translational Chemistry, 4-7 decembrie 2017, Proceedings Book, Caparica, Portugalia, **2017** (prezentare orală)
36. A. Ghițu, **E.A. Moacă**, C.A. Dehelean, *Antioxidant activity assessment of melissa officinalis extracts*, The 5<sup>th</sup> Annual Symposium Timisoara Medical Education Days (TIMMED), 03-05 noiembrie 2016, Timișoara, România, **2016** (poster)
37. C.A. Dehelean, I. Pinzaru, D. Ionescu, **A. Moacă**, D. Coricovac, C. Soica. *Reproducible animal models used for external toxicants tests*, 52<sup>nd</sup> Congress of the European Societies of Toxicology (EUROTOX), P19-021, Sevilia, Spania, 04 iulie **2016** (poster)
38. **E.A. Moacă**, M.F. Bojin, R. Ianoș, V. Păunescu, C. Păcurariu, V. Cișmașiu, *In vitro toxicity of colloidal suspensions based on combustion synthesized Fe<sub>3</sub>O<sub>4</sub> nanoparticles on tumor and normal cell lines*, The 8<sup>th</sup> Edition of Symposium with international participation: New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, 04-05 iunie 2015, pp. 87, Timișoara, România, **2015** (poster)
39. L. Vékás, V. Socoliuc, F. Bălănean, **E.A. Moacă**, C. Daia, D. Susan-Resiga, O. Marinică, N.C. Popa, T. Borbath, T. Boros, R. Turcu, *Hydrophobic and hydrophilic magnetite nanoparticles: non-polar and polar magnetic nanofluids designed for magnetic carriers manufacturing*, International Conference „ImagineNano”, 23-26 aprilie 2013, Bilbao, Spania, **2013**, (prezentare orală)
40. D. Buteică, C. Constantin, V. Socoliuc, **E.A. Tăculescu**, *Innovative technique to enhance the security of valuable papers using the superparamagnetic fingerprint of magnetic nanoparticle dispersion*, 11<sup>th</sup> Conference on colloid and surface chemistry, 9-11 mai 2013, Iași, România, **2013**, (prezentare orală)
41. N. Crainic, A. Torres-Marques, L. Vékás, P. Novoa, N.C. Popa, O. Marinică, **E.A. Tăculescu (căs. Moacă)**, *Mechanic and magnetic properties of the nanocomposite materials obtained using magnetic nano-fluids*, International Conference and Composites Structure 17, 17-21 iunie 2013, Porto, Portugalia, **2013**, (prezentare orală)
42. D. Buteică, C. Constantin, V. Socoliuc, **E.A. Tăculescu (Moacă)**, O. Marinică, *Hârtie securizată cu nanoparticule magnetice*, The 7<sup>th</sup> International Symposium on Advanced Technologies for the Pulp, Paper and Corrugated Board Industry, 3 – 6 septembrie 2013, Brăila, România, **2013** (prezentare orală)
43. **E.A. Tăculescu**, *Synthesis of colloidal suspensions using magnetic powders produced by the combustion method*, Workshop - Interdisciplinaritatea și managementul cercetării în studiile doctorale 7-8 iunie 2012, Oradea, România, **2012**, (prezentare orală)
44. D. Buteică, C. Constantin, **E.A. Tăculescu**, V. Socoliuc, *Nanoparticles used as security for the manufacture of security paper*, Proceedings of the 18<sup>th</sup> International Symposium in the field of Pulp, Paper, Packaging and Graphics, 19-22 iunie 2012, Zlatibor, Serbia, **2012** (prezentare orală)
45. N. Crainic, A. Torres Marques, L. Vékás, P. Jeorge, R. Nóvoa, O. Marinică, N.C. Popa, **E.A. Tăculescu**, C. Daia, L. Marșavina, A. Cernescu, D. Gubencu, F. Mustăță, *Magnetic nano-composite materials obtained using magnetic nano-fluids*, International Conference on Mechanics of Nano, Micro and Macro Composite Structures, Politecnico di Torino, 18-20 iunie 2012, Torino, Italia, **2012**, (prezentare orală)
46. V. Socoliuc, C. Daia, O. Marinică, C. Coca-Podaru, **E.A. Tăculescu**, I. Crăciunescu, R. Turcu, L. Vékás, *Magnetically induced phase separation in aqueous magnetic colloids for biomedical applications*, International Conference „Colloids in Nanomedicine”, 15-17 iulie 2012, Amsterdam, Olanda, **2012**, (poster)



47. **E.A. Tăculescu (Moacă)**, M.F Bojin, R. Ianoș, V. Păunescu, C. Păcurariu, *Effects of colloidal suspensions on normal and tumor cell lines*, 9<sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM 9), 20-23 septembrie 2012, pp. 15, Iași, România, **2012**, (poster)
48. **E.A. Tăculescu**, L. Vékás, F. Mustață, O.M. Marinică, M.C. Daia, **N. Crainic**, Details concerning the use of epoxy soybean oil to obtain magnetic nanofluids, 9<sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM 9), 20-23 septembrie 2012, pp. S 9-4, Iași, România, **2012**, (prezentare orală)
49. **V. Socoliuc**, **E.A. Tăculescu**, D. Susan-Resiga, O. Marinică, C. Daia, L. Vékás, *The influence of the surfactant layer thickness on the rheological properties of magnetic nanofluids*, "Dynamics of Complex Fluids Conference", 5-7 mai 2011, pag.10, ISBN 978-973-702-849-5, Iași, România, **2011**, (prezentare orală)
50. **E.A. Tăculescu**, R. Ianoș, C. Păcurariu, *The influence of the fuel's nature on the synthesis of iron oxides by the combustion method*, The 12<sup>th</sup> Edition of Timisoara's Academic Days, Chemistry, 26-27 mai 2011, Timișoara, România, pp. 78, **2011**, (prezentare orală)
51. **E.A. Tăculescu**, C. Daia, O. Marinică, *Oleic acid coated hydrophobic and hydrophilic magnetite nanoparticles for bio-applications*, ZAT – Workshop "Multifunctional nanoparticles, magnetically controllable fluids, complex flows and applications", 2-3 iunie 2011, Timișoara, România, **2011**, (poster)
52. **C. Daia**, **E.A. Tăculescu**, C. Coca-Podaru, *DLS investigations of spontaneous clustering in magnetic colloids*, ZAT – Workshop "Multifunctional nanoparticles, magnetically controllable fluids, complex flows and applications", 2-3 iunie 2011, Timișoara, România, **2011**, (poster)
53. **N. Crainic**, A. Torres Marques, P. J. R. Nóvoa, O. Marinică, N.C. Popa, **E.A. Tăculescu**, C. P. Moreira de Sa, C. Daia, *Particularities concerning the use of magnetic nanofluids to obtain magnetic nanocomposite materials*, ZAT – Workshop "Multifunctional nanoparticles, magnetically controllable fluids, complex flows and applications", 2-3 iunie 2011, Timișoara, România, **2011**, (poster)
54. **I. Crăciunescu**, L. Rednic, C. Socaci, A. Nan, R. Turcu, I. Bratu, C. Leostean, C. Coca-Podaru, **A. Tăculescu**, C. Daia, L. Vékás, *Stimuli responsive magnetic nanogels for biomedical applications*, ZAT – Workshop "Multifunctional nanoparticles, magnetically controllable fluids, complex flows and applications", 2-3 iunie 2011, Timișoara, România, **2011**, (poster)
55. **V. Socoliuc**, D. Bicaț, **A. Tăculescu**, C. Daia, L. Vékás, *Spontaneous and magnetically induced loss of colloidal stability in aqueous magnetic nanocolloids*, ZAT – Workshop "Multifunctional nanoparticles, magnetically controllable fluids, complex flows and applications", 2-3 iunie 2011, Timișoara, România, **2011**, (prezentare orală)
56. **R. Turcu**, A. Nan, I. Craciunescu, L. Rednic, **A. Tăculescu**, C. Daia, C. Podaru, L. Vékás, *Design of polymer based magnetic nanocomposites with tailored properties*, ZAT – Workshop "Multifunctional nanoparticles, magnetically controllable fluids, complex flows and applications", 2-3 iunie 2011, Timișoara, România, **2011**, (prezentare orală)
57. N. Crainic, D. Bica, A. Torres Marques, L. Vékás, P.J. Novoa, N.C. Popa, O. Marinică, P. Vieira, **G. Bandur**, N. Correia, **E.A. Tăculescu**, C. Daia, C. P. Moreira de Sa, *Application des nanofluides magnetiques dans le science des matériaux nanocomposites magnetisables*; Xème Colloque Franco Roumain sur les Polymères, Ecole des Mines de Douai, 6-8 septembre 2011, Douai, Franța, **2011**, (poster)
58. **N. Crainic**, A. Torres Marques, N.C. Popa, P.J. Novoa, Oana Marinica, N. Correia, **Alina Tăculescu**, Patricia Perez, Camelia Daia; *Particularities concerning the influence of the magnetic nanofluids in the fabrication process of the nanocomposite materials*; ICCS 16 - 16<sup>th</sup> International Conference on Composite Structures, University of Porto, Faculty of Engineering (FEUP), 28-30 iunie 2011, Porto, Portugalia, **2011**, (prezentare orală)
59. **I. Craciunescu**, A. Nan, C. Socaci, L. Rednic, **A. Tăculescu**, C. Coca-Podaru, C. Daia, L. Vekas, R. Turcu; *Preparation and characterization of magnetic nanogels with temperature responsive core and pH*

*responsive shell*; „International Conference Processes in Isotopes and Molecules” (PIM 2011), 29 septembrie-1 octombrie 2011, pag 45, Cluj-Napoca, România, **2011**, (prezentare orală)

60. D. Susan-Resiga, V. Socoliuc, T. Boros, **A. Tăculescu**, O. Marinica, C. Daia, L. Vekas; *Influence of composition on the structure and macroscopic behavior of magnetizable fluids*; „International Conference Processes in Isotopes and Molecules” (PIM 2011), 29 septembrie-1 octombrie 2011, pag. 50, Cluj-Napoca, România, **2011**, (prezentare orală)
61. **E.A. Tăculescu**; *Synthesis and characterization of iron oxides produced by the combustion method*; Interdisciplinary research and management workshop, 24-25 noiembrie 2011, Timișoara, România, **2011**, (prezentare orală)
62. L. Vékás, D. Bica, M.V. Avdeev, **E.A. Tăculescu**, C. Podaru, S. Muntean, V. Socoliuc, O. Marinică, A. Han, C. Daia, A. Dobra, R. Turcu, I. Morjan, *Biocompatible water based magnetic nanofluids: synthesis, colloidal stability and properties*, Structural aspects of biocompatible ferrofluids: stabilization, properties control and application Workshop, GKSS Research Center of Geesthacht, 28-29 ianuarie 2010, Germania, **2010**, (prezentare orală)
63. O. Marinică, **E.A. Tăculescu**, C. Podaru, C. Daia, A. Dobra, V. Socoliuc, *Magnetic and granulometric properties of water based magnetic nanofluids*, Nanotheranostics-Fabrication & Safety Concerns, European Science Foundation (ESF), 27-30 aprilie 2010, Cipru, **2010**, (poster)
64. L. Vékás, E. Tombácz, **E.A. Tăculescu**, C. Podaru, S. Muntean, M.V. Avdeev, V. Socoliuc, O. Marinică, C. Daia, A. Dobra, I. Morjan, *Water based magnetic nanofluids: synthesis procedures, colloidal stability and properties*, Nanotheranostics-Fabrication & Safety Concerns, European Science Foundation (ESF), 27-30 aprilie 2010, Cipru, **2010**, (prezentare orală)
65. **E.A. Tăculescu**, C. Păcurariu, A. Popa, L. Lupa, *Hybrid materials obtained by grafting phenil phosphonic acid on silica gel. Removal of  $\text{Cu}^{2+}$  and  $\text{Cd}^{2+}$  from aqueous solution*, The 11<sup>th</sup> Edition of Timisoara's Academic Days, Chemistry, 28-29 mai 2009, Timișoara, România, pp. 71, **2009**, (poster)
66. O. Marinică, **E.A. Tăculescu**, C. Daia, C. Podaru, *Ferrofluids with non-polar and polar carriers: effect of stabilizant layer on magnetic and flow behavior*, UEFISCSU Exploratory Workshop - New Trends In Complex Fluids Modeling - CFM 2009, 18-21 iunie, Bran, Brașov, România, pp. 88, **2009**, (poster)
67. L. Vékás, Daniela Susan-Resiga, M.V. Avdeev, E. Tombacz, R. Turcu, I. Morjan, V. Socoliuc, O. Marinică, A. Han, S. Muntean, I. Borbáth, T. Boros, **E.A. Tăculescu**, C. Podaru, A. Dobra, C. Daia, *Magnetic particles in fluid systems: synthesis, properties and some applications*, IERD Workshop, 10-12 septembrie 2009, București, România, **2009**, (prezentare orală)
68. **E.A. Tăculescu**, A. Popa, C. Păcurariu, L. Lupa, *Removal of divalent metals ( $\text{Cu}^{2+}$ ,  $\text{Cd}^{2+}$ ) from water after preconcentration on phosphonate St-DVB polymer/ $\text{TiO}_2$  hybrid*, The 16<sup>th</sup> Symposium on Analytical and Environmental Problems, Szeged, Ungaria, 28 septembrie 2009, pp. 317-320, **2009**, (prezentare orală)
69. R. Turcu, I. Crăciunescu, A. Nan, O. Pană, L. Vékás, C. Leoștean, **A. Tăculescu**, *Encapsulation of functionalized magnetic nanoparticles in polymeric gels*, International Conference on Advanced Polymers and Macromolecular Engineering- APME, Book of abstracts, Dresda, Germania, 4-7 octombrie 2009, pp. 77, **2009**, (prezentare orală)

## E. BREVETE

1. RG Ianoș, EC Muntean, RI Lazău, RM Băbuță, **EA Moacă**, CS Păcurariu, RG Cornea: *Metodă de obținere a pigmenților maro pe bază de  $\text{LaAl}_{1-x}\text{Fe}_x\text{O}_3$  ( $x = 0,2 - 0,8$ ), cu proprietăți termoreflexive*, Patent A 201700506 / 24.07.2017, **2017**

## F. PROIECTE, GRANTURI ȘI CONTRACTE DE CERCETARE

**1. Grant de Cercetare Avansată – Tineri Cercetători, ONCO-MNPs contract nr. 1682/26.01.2024 (10.000 euro)**

*Noi progrese în dezvoltarea nanoparticulelor magnetice inteligente, utilizate în patologia cancerului*

Coordonator proiect: Universitatea de Medicină și Farmacie „Victor Babeș” Timișoara

Director proiect: Ș.L. Dr. Alina Moacă

Perioada: 26.01.2024 – 26.07.2025

**2. Grant Intern Post-Doctoral, contract nr. 3POSTDOC/1238/2020 (238.340 lei)**

*Populi gemmae-un dublu câștig pentru domeniul farmaceutic: potențial terapeutic și bio-sursă pentru sinteza verde a nanoparticulelor de argint*

Coordonator proiect: Universitatea de Medicină și Farmacie „Victor Babeș” Timișoara

Director proiect: Conf. Univ. Dr. Corina Danciu

Perioada: 02.02.2020 – 02.02.2022

**3. Proiect PN-III-P1-1.1-TE-2019-2134, BAPRONIO, contract nr. 79/30.10.2020 (431.840 lei)**

*Redarea către piața dermocosmetica a unei formulari topice moderne cu acid betulinic încorporat în proniozomi*

Coordonator proiect: Universitatea de Medicină și Farmacie „Victor Babeș” Timișoara

Director proiect: Conf. Univ. Dr. Dorina Coricovac

Perioada: 2.11.2020 – 31.10.2022

**4. Grant Doctoral Competiție Internă, TRITERPENS@MNP, contract. nr. 4DOC/1276/30.01.2020 (20.000 euro)**

*Nanoparticule magnetice ca suport pentru principii active antitumorale de tip triterpenic*

Coordonator proiect: Universitatea de Medicină și Farmacie „Victor Babeș” Timișoara

Director proiect: Ș.L. Dr. Alina Moacă

Perioada: 02.02.2020 – 02.02.2022

**5. Proiect CNFIS-FDI-2019-0393, contract. nr. 104/21.05.2019**

*Centru de dezvoltare profesională în domeniul produselor dermato-cosmetice pe bază de plante medicinale*

Coordonator proiect: Universitatea de Medicină și Farmacie „Victor Babeș” Timișoara

Director proiect: Prof.univ.dr.farm. Cristina Dehelean

Perioada: 21.05.2019 - 15.12.2019

**6. Proiect CNFIS-FDI-2018-0159, contract. nr. 35/16.05.2018**

*Centru de dezvoltare a abilităților practice în domeniul plantelor medicinale*

Coordonator proiect: Universitatea de Medicină și Farmacie „Victor Babeș” Timișoara

Director proiect: Prof.univ.dr.farm. Cristina Dehelean

Perioada: 16.05.2018 - 15.12.2018

**7. Proiect PN-III-P4-ID-PCE-2016-0765, contract nr. 10718/21.07.2017**

*Materiale avansate pe bază de nanoparticule magnetice de oxizi de fier obținute prin combustie și citotoxicitatea acestora utilizată în terapia cancerului - MagNanoCytoTox*

Coordonator proiect: Universitatea Politehnica Timișoara

Director proiect: Prof.univ.dr.ing. Cornelia Păcurariu

Perioada: 2017-2019

**8. Proiect PN-III-P2-2.1-2016-BG-0354, ctr. nr. 1506/21.10.2016**

*Formulări pe bază de betulină și nanoparticule de aur în combaterea procesului de îmbătrânire a pielii*

Coordonator proiect: Universitatea de Medicină și Farmacie „Victor Babeș” Timișoara

Director de proiect: Prof.univ.dr.farm. Șoica Codruța Marinela

Perioada: 2016-2018

**9. Proiect PN-II-RU-TE-2014-4-0514, ctr. nr. 60 din 01/10/2015**

*Dezvoltarea de materiale compozite magnetice nanostructurate utilizate ca nanoadsorbanți și catalizatori de înaltă performanță în aplicații de mediu*

Coordonator proiect: Universitatea Politehnica Timișoara

Director proiect: Ș.L dr.chim. Stoia Marcela Elena

Perioada: 2015-2017

**10. Proiect PN-II-RU-TE-2014-4-1587, ctr. nr. 142 din 01/10/2015**

*Nanopigmenți inteligenți cu reflexe în infraroșu apropiat, obținuți prin metoda combustiei, destinați acoperirilor termoreflectorizante (reci)*

Coordonator proiect: Universitatea Politehnica Timișoara

Director proiect: Conf.univ.dr.chim. Ianoș Robert Gabriel

Perioada: 2015-2017

**11. Proiect FP7 (RPF'S FP 2009 – 2010, Cipru)**

*Novel, multi-responsive cross-linked films with controlled architectures: synthesis, characterization and application in icon restoration*

Coordonator proiect: Universitatea din Cipru

Partener 2: Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice, Fundamentale și Avansate, Laboratorul de Lichide Magnetice

Responsabil proiect: Dr. Ladislau Vékás, CS1

Perioada: 2013-2014

**12. Program PN-II-PT-PCCA-2011-3.2-0538-MagNanoMicroSeal, ctr. nr. 157/2012**

*Nanofluid magnetice și fluide magnetizabile nano-micro compozite cu magnetizație ridicată: aplicații în etanșări rotitoare pentru presiuni ridicate și condiții grele de exploatare, respectiv în dispozitive magnetoreologice de control*

Coordonator proiect: Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice, Fundamentale și Avansate, Laboratorul de Lichide Magnetice

Director proiect: Dr. Ladislau VÉKÁS, CS1

Perioada: 2012-2015

**13. Proiect ID\_76 Știința suprafețelor și interfețelor: fizică, chimie, biologie, aplicații**

Coordonator proiect: Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice, Fundamentale și Avansate, Laboratorul de Lichide Magnetice

Responsabil proiect: Dr. Victor SOFONEA, CS1

Perioada: 2012-2013

**14. Proiect FP7 (MAGPRO<sup>2</sup>LIFE)**

*Producere de nanoparticule magnetice avansate în procese și produse inteligente pentru viață*

Coordonator proiect: SOLAE Co., Danemarca

Partener 11: Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice, Fundamentale și Avansate, Laboratorul de Lichide Magnetice

Responsabil proiect: Dr. Ladislau VÉKÁS, CS1

Perioada: 2009-2013

**15. Program PN-II ERA-NET (MAFINCO), ctr. nr. 7-018/2009**

*Nanofluid magnetic – un nou mediu izolator și de răcire pentru transformatoarele electrice* Coordonator proiect: Universitatea “Politehnica” Timișoara, CNISFC

Partener 1: Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice, Fundamentale și Avansate, Laboratorul de Lichide Magnetice

Responsabil proiect: Dr. Ladislau VÉKÁS, CS 1

Perioada: 2009-2011

**16. Program PN-II (CFEEL), ctr. nr. 21-043/2007**

*Compatibilitatea funcțională a echipamentelor electrotehnice speciale, cu ferofluide magnetice (treceri izolate, transformatoare de măsură, ondulatori pentru microparticule fizice, divizoare de tensiune la frecvență industrială)*

Coordonator proiect: Institutul Național de CD pentru Inginerie Electrică ICPE-CA, București

Partener 2: Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice, Fundamentale și Avansate, Laboratorul de Lichide Magnetice

Responsabil proiect: Dr. Ladislau VÉKÁS, CS1

Perioada: 2007-2010

**17. Program PN-II (BIMAPAFLU), ctr. nr. 71-083/2007**



*Procesarea de nanostructuri magnetice avansate sub formă de nanoparticule și nanofluid pe bază de Fe, pentru aplicații biomedicale*

Coordonator proiect: Institutul Național de CD pentru Fizica Laserilor, Plasmei și Radiației, București

Partener 1: Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice, Fundamentale și Avansate, Laboratorul de Lichide Magnetice

Responsabil proiect: Dr. Ladislau VÉKÁS, CS 1

Perioada: 2007-2010

**18. Program PN-II (NANOMAGPOLI), ctr. nr. 71-068/2007**

*Sisteme nanostructurate biocompatibile pe bază de nanoparticule magnetice și polimeri cu răspuns la stimuli externi*

Coordonator proiect: Institutul Național de CD pentru Tehnologii Izotopice și Moleculare, Cluj-Napoca

Partener 1: Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice, Fundamentale și Avansate, Laboratorul de Lichide Magnetice

Responsabil proiect: Dr. Ladislau VÉKÁS, CS 1

Perioada: 2007-2010

**Data**

**Octombrie, 2024**

**Conf. Univ. Dr. Elena-Alina Moacă**