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Curriculum Vitae

INFORMAŢII PERSONALE

Mărușescu Luminița-Gabriela

Scrieţi numele străzii, numărul, oraşul, codul poştal, ţara

Scrieţi numărul de telefon Scrieţi numărul de telefon mobil

luminita.marutescu@bio.unibuc.ro

Sexul Feminin| Data naşterii 08/11/1979| Naţionalitatea Română

EXPERIENŢA PROFESIONALĂ

2018 - prezent

Conferențiar universitar

Universitatea din București, Șoseaua Panduri 90, București 050663, https://unibuc.ro/contact/

- Activități de predare cursuri
  Aplicații ale citometriei în flux în clinică și cercetare
  Ecologia microorganismelor
  Imunologie celulară și imunopatologie
- Activități de coordonare lucrări științifice de licență și master

Tipul sau sectorul de activitate Educație

2009 - prezent

Asistent cercetare

Universitatea din București, Șoseaua Panduri 90, București 050663, https://unibuc.ro/contact/

- Acitivități de cercetare
  Membru în echipa de proiect în cadrul parteneriatelor proiectelor naționale și internaționale de tip PNII, PNIII, ERA-NET, FP-7.

Tipul sau sectorul de activitate Cercetare

2015 - 2017

Consilier Superior

Autoritatea Națională Fitosanitară, Bulevardul Voluntari 11, Voluntari 077190, https://www.anfdf.ro/

- Activități de laborator
  Depistare şi identificare organisme dăunătoare plantelor şi produselor vegetale conform normelor legislative în vigoare prin metode bazate pe biologie moleculară: PCR și real-time PCR.
- Raportor național- micoplasme *(Apple proliferation, Apricot chlorotic leafroll, Pear decline mycoplasm).*

Tipul sau sectorul de activitate Protecția plantelor

2008 - 2015

Preparator universitar, Asistent universitar, Lector universitar

Universitatea din București, Șoseaua Panduri 90, București 050663, https://unibuc.ro/contact/

- Activități de predare cursuri
  Microbiologie industrială
  Ecologie microbiană
  Microbiologie aplicată
- Coordonator lucrări științifice de licență și master

Tipul sau sectorul de activitate Educație

2003 - 2005

Preparator universitar, Asistent universitar, Lector universitar

Laborator Central pentru Carantină Fitosanitară, Bd. Voluntari, nr. 11, Voluntari 077190,https://www.anfdf.ro/

- Activități de laborator
  Detectarea şi identificarea de organisme (bacterii) dăunătoare plantelor şi produselor vegetale reglementate conform normelor legislative în vigoare

Tipul sau sectorul de activitate Protecția plantelor

2005 - 2010 **Doctor în Biologie**

Facultatea de Biologie, Universitatea din București, Șoseaua Panduri 90, București 050663, https://unibuc.ro/contact/

- Titlul de Doctor în Biologie în România, de către Ministerul Educației, Cercetării și Inovării 4226/15.06.2010 (Certificat nr. 670/05.07.2010). Coord.: Prof. dr. Tatiana-Eugenia Șesan

2005 - 2010 **Master Biotehnologii Microbiene și Genetică**

Facultatea de Biologie, Universitatea din București, Șoseaua Panduri 90, București 050663, https://unibuc.ro/contact/

- Microbiologie medicală, Biotehnologii microbiene, Genetică

2005 - 2010 **Licență Biologie**

Facultatea de Biologie, Universitatea din București, Șoseaua Panduri 90, București 050663, https://unibuc.ro/contact/

- Microbiologie, Chimie, Imunobiologie, Biofizică, Botanică sistematică, Zoologie, Fiziologie animală, Fiziologia plantelor, Biofizică, Biologie celulară, Biochimie

1998 - 2000 **Asistent medical generalist**

Colegiul Dr. Victor Babeș, București

1994 - 1998 **Bacalaureat**

Colegiul Dr. Victor Babeș, București, https://cnvictorbabes.ro/

COMPETENTE PERSONALE

Limba(i) maternă(e): Română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversaţie	Discurs oral	
Engleză	C1	C1	C1	C2	C2
Franceză	C2	C2	B1	B1	B1

Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat
Cadrul european comun de referinţă pentru limbi străine

Competenţe de comunicare: Bune competențe de comunicare dezvoltate în urma activităților didactice și de cercetare într-un mediu multicultural și în urma realizării a peste 20 de prezentări la evenimente științifice naționale și internaționale.

Competenţe organizaţionale/manageriale

- **Competențe manageriale**:
  - Vicepreședinte al Asociației de Citometrie din România (2017 - prezent)
- **Competențe organizaționale** - membru în comitetul științific (CS), de organizare (CO), lector (L) sau moderator (M) la ateliere și conferințe naționale/ internaționale:
  - CIVIS (ERASMUS+) Summer School inDrug design and discovery program, Athens 4-8 iulie 2022 (CO, L)
  - CIVIS (ERASMUS+) Summer School in Single-cell approaches and omics, Bucharest, 11 – 16 iulie 2022 (CO)
  - Workshop AWARE ERANET project, București, Romania, 2019; Workshop ARMIS ERANET project, București, Romania, 2019; Congresele Naționale de Citometrie 2012 (CO, CS), 2013 (CO, CS), 2014 (CO, CS), 2017 (CO, CS, M), 2019 (CO, CS, M), 2020 (CO, CS, M), 2020-2024 (CO, L), Conferința Națională de Citometrie 2015 (CO, CS).
  - Curs internațional Biofilms EUCIC local module, Bucharest 22-24 Mar 2023 (CO, L)
  - Școala de Citometrie pentru începători și avansați (30 – 60 de participanți) organizată de Asociația de Citometrie din România în parteneriat cu Facultatea de Biologie (Universitatea din București) și French Association of Cytometry 2014 (CO, L), sub egida European Society for Clinical Cell Analysis (ESCCA)2015 (CO, L), 2017-2024 (CO, CS, L).
  - 2nd ROWER Conference on Occupational Health and Safety Economics, Sinaia, România, 27-30 April 2011 (CO).

Competenţe dobândite la locul de muncă

Competențe în cercetare:

- DNAqua-Net Training School 'Applicationof (e)DNA in aquatic bioassessments', University of Bucharest, Faculty of Biology, Bucharest, Romania (22.10.2018 - 26.10.2018)
- International Workshop on Xylella fastidiosa & the Olive Quick Decline Syndrome, Bari, Italia. Food and Agriculture Organization (FAO), International Plant Protection Convention (IPPC), Near-East Plant Protection Organization (NEPPO), European Plant Protection Organization (EPPO), International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), Mediterranean Agronomic Institute of Bari (MAIB), CIHEAM-IAM Bari and Consiglio Nazionale Delle Ricerche (CNR). (19-22.04.2016).
- Program de instruire Next generation sequencing HiSeq. Centrul de Medicină Genomică de la Universitatea de Medicină şi Farmacie Victor Babeş, Timişoara. (23-26.02.2016).
- Curs Formarea auditorilor interni pentru laboratoarele de încercări şi etalonări, în conformitate cu SR EN ISO/CEI 17025:2005 şi SR EN ISO 19011:2011, program – F1. Asociaţia de Acreditare din România (RENAR). Diplomă Auditor RENAR.
- Stagiu practic: Application of flowcytometry in microbiology. SCK-CEN, Belgian Nuclear Research Centre, Mol, Belgia. (2-13 august, 2010 și 27 august-8 septembrie 2010).
- Certificat de absolvire a cursului: "The use of Real-Time BIO-PCR for detecting brown rot and ring rot bacteria on potatoes". Plant Protection Central Research Institute, Ankara, Turcia (26 - 30 iunie 2006).
- Certificat pentru absolvirea programelor: "Perfectioning of Quarantine Analysis in Bacteriology" şi „Implementation of Quality Assurance", Twining Project/Proiect de înfrăţire Franţa-Olanda, PHARE. (Laborator Central pentru Carantină Fitosanitară, Martie, 2005).
- Certificat de participare „EPPO Workshop on Phyto-sanitary Inspectors", Poznan, Polonia. European and Mediterranean Plant Protection Organization (EPPO) (17 - 19 noiembrie, 2004).
- Certificat de absolvire a cursului - Bioprocess Engineering Course, 2010, Brač, Croaţia.European Federation of Biotechnology (19 – 25 septembrie, 2010).
- Webinar Cancérologie & Immunologie, organizat de Asociația Franceză de Citometrie, 24 noiembrie 2020.

Competențe în evaluarea publicațiilor științifice:

- Reviewer pentru publicații științifice în reviste precum MDPI, Frontiers in Microbiology, Frontiers in Immunology, Elsevier.

Competențe în activitate didactică

- Membru în Task Force WP4 al proiectului CIVIS (ERASMUS+) - Universitate Civică Europeană (https://civis.eu/ro/discover-civis/civis-is)
- Membru în proiectul educațional de tip service-learning bilateral RO-USA CHANCE - Program interdisciplinar de educație pentru mediu, acreditat Penn State (2022)https://www.chancepsu.org/romania-2022
- Coordonator proiect educațional service-learning CIVIS (ERASMUS+)CHANCE: Undergraduate Research on the Sustainability of the Danube Delta (2023) https://civis.eu/en/learn/civis-courses/chance-undergraduate-research-on-the-sustainability-of-the-danube-delta
- Coordonator proiect educațional CIVIS (ERASMUS+) Drug Design and Discovery program
- Virtual School on Virtual Mobility organizat de UB împreună cu partenerii săi din cadrul consorțiului CIVIS, perioada 7-11 septembrie 2020.

- Webinar on Service learning: methodology basis & implementation guidelines, organizat de Universidad Autónoma de Madrid (proiect CIVIS), 11 decembrie 2020.
- Workshop "Innovative pedagogies and virtual mobility in the (post) COVID-19 era UNICA-CIVIS EduLAB ", organizat de UNICA în parteneriat cu CIVIS și cu Universitatea din București, 4 decembrie 2020.
- Certificat de absolvire a cursului: Curs de Formare Continuă de tip “Blended Learning” pentru cadrele didactice universitare – MII - Învăţarea centrată pe student – strategii de proiectare, implementare şi evaluare a procesului educaţional. M2.2. Predarea, învăţarea şi evaluarea în învăţământul superior - tineri universitari (experienţă maxim 5 ani în învăţământul superior. POSDRU/57/1.3/S/26646. Manager proiect: Universitatea din Bucureşti, Parteneri: Universitatea Babeş-Bolyai, Cluj-Napoca, Universitatea de Vest din Timişoara, SC SOFTWIN SRL. (2011-2012 (septembrie-mai)).

Competenţe informatice

- O bună cunoaştere a instrumentelor Microsoft Office™, platforme digitale: *Teams, Moodle*, *Zoom*, programe de analiză: *GraphPad Prism, FlowJo, Kaluza*

Permis de conducere

Nu dețin

INFORMATII SUPLIMENTARE

Publicaţii

Cărţi si capitole naționale

1. Lazar, Veronica, **Măruţescu Luminiţa**, Chifiriuc, Mariana Carmen, 2017, Microbiologie generală și aplicată. Univ. of Bucharest Press (ISBN: 978-606-16-0695-5) (330 p., format A4).
2. Lazar, Veronica, Chifiriuc, Mariana Carmen, Curutiu Carmen, Mitache Mihaela Magdalena, Marinescu Florica, Croitoru Cristina, Mateescu Lorena, **Măruţescu Luminiţa**, 2015, Metode şi standarde pentru laboratoarele de control microbiologic. Univ. of Bucharest Press (ISBN: 978-606-16-0695-5) (196 p., format B5).
3. Ilie M, **Dascălu L** and Macovei RA. 2014. Helicobacter Pylori Cag A antibodies and their clinical implications. LAP LAMBERT Academic Publishing, p 112, ISBN-13 (EAN): 978-3-659-52663-3.

Capitole de carte - în cărți internaționale

1. Popa M, **Măruţescu L**, Ion I., Kamerzan C, Bleotu C, Oprea E, Chifiriuc MC, Lazăr V. 2018. Antimicrobial and cytotoxic activity of graphenebased perioceuticals In: Fullerens, Graphenes and Nanotubes A Pharmaceutical Approach, Grumezescu AM (Ed), Elsevier Inc. William Andrew, p 585-599, ISBN 978-0-12-813691-1.
2. Gheorghe I, Popa M, **Măruțescu L**, Saviuc C, Lazar V, Chifiriuc MC. 2017. Lessons from inter-regn communication for the development of novel, ecofriendly pesticides. In: New Pesticides and Soil Sensors, Grumezescu AM (Ed), Elsevier Inc. Academic Press, p 1-45, ISBN 978-0-12-804299-1.
3. **Măruțescu L**, Popa M, Saviuc C, Lazar V, Chifiriuc MC. 2017. Botanical pesticides with virucidal, bactericidal, and fugicidal activity. In: New Pesticides and Soil Sensors Grumezescu AM (Ed), Elsevier Inc. Academic Press, p 311-335, ISBN 978-0-12-804299-1.
4. **Măruțescu L** and Chifiriuc MC. 2017. Molecular mechanisms of pesticides toxicity. In: New Pesticides and Soil Sensors, Grumezescu AM (Ed), Elsevier Inc. Academic Press, p 393-435, ISBN 978-0-12-804299-1.
5. Georgescu M, **Măruțescu L**, Trifu V, Marinescu V, Toropoc I, Chiriță DA, Poenaru M, Darmanescu SM, Costache D, Chifiriuc MC. 2015. Antiseptics used in the therapeutic management of the leg chronic wounds. In: Leg ulcers and chronic wounds. Simptoms, tratment and prevention. Simon Green (Ed), Nova Biomedical, p 194, ISBN 978-1-63483-476-6.
6. Lazăr V, Colța T, **Măruțescu L**, Dițu LM, Chifiriuc MC. 2013. New antiinfectious strategy based on antimicrobial and quorum sensing inhibitors from vegetal extracts and propolis. In Microbial pathogens and strategies for combating them: science, technology and education. Méndez-Vilas A (Ed), Badajoz : Formatex Research Center, 2013. p 1209-1219, ISBN 9788493984397.
7. **Măruţescu L**, Chifiriuc M, Postolache C, Pircalabioru G, Bolocan A. 2019. Nanoparticles’ toxicity for humans and environment. In: Nanomaterials for Drug Delivery and Therapy, Grumezescu AM (Ed), Elsevier Inc. Academic Press pp.515-535. ISBN 978-0-12-813691-1.
8. **Măruţescu L**, Frăţiean D, Chifiriuc M. 2019. Nanomedicine progress in prevention, detection, and treatment of tuberculosis. In: Nanomaterials for Drug Delivery and Therapy, Grumezescu AM (Ed), Elsevier Inc, pp.245-266. ISBN 978-0-12-813691-1.

Lucrări științifice ISI

1. Popa L., Gheorghe I., Czobor I, Surleac M., Paraschiv S., **Măruţescu L.**, Popa M., Pîrcâlâbioru, G., Tălăpan D., Nita-Lazar M., Streinu-Cercel A., Streinu-Cercel A., Oţelea, D., Chifiriuc, M. 2021. Multidrug Resistant Klebsiella pneumoniae ST101 Clone Survival Chain From Inpatients to Hospital Effluent After Chlorine Treatment. Frontiers in Microbiology. 11. 10.3389/fmicb.2020.610296.
2. Gheorghe I., Avram I., Corbu V., **Măruţescu L.**, Popa M., Balotescu I., Blâjan I., Mateescu V., Zaharia D., Dumbravâ A., Zetu O., Pecete I., Cristea V., Batalu D., Grigoroscuta M., Burdusel, M., Aldica V.G., Badica P., Corbu M. (2021). In vitro evaluation of MgB2 powders as novel tools to fight fungal biodeterioration of heritage buildings and objects citation. Frontiers in Materials. 7. 10.3389/fmats.2020.601059.
3. Cojocaru F., Selescu T., Domocos D., **Măruţescu L.**, Chiritoiu G., Chelaru N.R., Dima S., Mihailescu D., Babes A., Cucu D. 2021. Functional expression of the transient receptor potential ankyrin type 1 channel in pancreatic adenocarcinoma cells. Scientific Reports. 11. 10.1038/s41598-021-81250-3.
4. Pircalabioru G., Popa L., **Marutescu L.**, Gheorghe I., Popa M., Barbu I., Cristescu R., Chifiriuc M. 2021. Bacteriocins in the era of antibiotic resistance: rising to the challenge. Pharmaceutics. 13. 196. 5.Pricop G.R., Gheorghe I., Pircalabioru G.G., Cristea V., Popa M., **Marutescu L.**, Chifiriuc M.C., Mihaescu G., Bezirtzoglou E. 2020. Resistance and virulence features of bacteroides spp. isolated from abdominal infections in romanian patients. Pathogens. 9(11):940.,
5. Vlad I.M., Nuta D.C., Chirita C., Caproiu M.T., Draghici C., Dumitrascu F., Bleotu C., Avram S., Udrea A.M., Missir A.V., **Marutescu L.G.**, Limban C. 2020. In Silico and In Vitro Experimental Studies of New Dibenz[b, e]oxepin-11(6 H)one O-(arylcarbamoyl)-oximes Designed as Potential Antimicrobial Agents. Molecules, 25(2):321.
6. Olar R., Badea M., Maxim C., Grumezescu A.M., Bleotu C., **Măruţescu L.**, Chifiriuc M.C. Anti-biofilm Fe3O4@C-18-[1,3,4]thiadiazolo[3,2-a]pyrimidin-4-ium-2-thiolate Derivative Core-shell Nanocoatings. Materials (Basel), 2020,13(20):4640.
7. Velican A.M., **Măruţescu L.**, Kamerzan C., Cristea V.C., Banu O., Borcan E., Chifiriuc M.C. 2020. Rapid Detection and Antibiotic Susceptibility of Uropathogenic Escherichia coli by Flow Cytometry. Microorganisms, 8(8): 1233.
8. Limban C., Chifiriuc M.C., Caproiu M.T., Dumitrascu F., Ferbinteanu M., Pintilie L., Stefaniu A., Vlad I.M., Bleotu C., **Marutescu L.G.**, Nuta D.C. 2020. New Substituted Benzoylthiourea Derivatives: From Design to Antimicrobial Applications. Molecules. 25(7):1478.
9. Mihaescu G., Chifiriuc M.C., Iliescu C., Vrancianu C.O., Ditu L.M., **Marutescu L.G.**, Grigore R., Bertești eanu S., Constantin M., Pircalabioru G. 2020. SARS-CoV-2: From Structure to Pathology, Host Immune Response and Therapeutic. Microorganisms, 2020, 8(10):1468.
10. Zarafu I., Patrascu B., **Marutescu L.**, Bleotu C., Limban C., Tatibouet A., Chifiriuc M.C., Nuta D.C., Ionita P. 2020. Bioevaluation Of The Antimicrobial And Anti-Proliferative Potential Of Some Derivatives Of 3,5-Dinitro-4-Methoxyamino-Benzoic Acid. Farmacia, 68(1):8-14,
11. Sirghi A, Gheorghe I, Avram I, **Marutescu L**, Stoian G, Zhiyong Z, Chifiriuc M. 2019. Identification of fungal strains isolated from buildings of cultural importance in Romania and antagonistic relationships amongst them. Romanian Biotechnological Letters. 24. 1008-1014. 0.25083/rbl/24.6/1008.1014.
12. Raita M, Iconaru SL, Groza A, Cimpeanu C, Predoi G, Ghegoiu L, Badea M, Chifiriuc M, **Marutescu L**, Trusca R, Furnaris F, Enache D, Predoi D. 2020. Multifunctional Hydroxyapatite Coated with Arthemisia absinthium Composites. Molecules. 25. 413. 10.3390/molecules25020413.,
13. Surleac M, Czobor I, Paraschiv S, Popa L, Gheorghe I, **Marutescu L**, Popa M, Avram I, Tălăpan D, Nita-Lazar M Iancu A, Arbune M, Manole A, Nicolescu S, Sandulescu O, Streinu-Cercel A, Oţelea D, Chifiriuc M. 2020. Whole genome sequencing snapshot of multi-drug resistant Klebsiella pneumoniae strains from hospitals and receiving wastewater treatment plants in Southern Romania. PLOS ONE. 15. e0228079. 10.1371/journal.pone.0228079.
14. Burlibasa L, Chifiriuc M, Lungu MV, Lungulescu EM, Mitrea S, Sbarcea BG, Popa M, **Marutescu L**, Constantin N, Bleotu C, Hermenean A. 2020. Synthesis, physico-chemical characterization, antimicrobial activity and toxicological features of Ag-ZnO nanoparticles. Arabian Journal of Chemistry. 13. 4180-4197. 10.1016/j.arabjc.2019.06.015.
15. Marinescu G, Culita D, Romanitan C, Somacescu S, Ene C, Marinescu V, Negreanu D, Maxim C Popa M, **Marutescu L**, Stan M, Chifiriuc M. 2020. Novel hybrid materials based on heteroleptic Ru(III) complexes immobilized on SBA-15 mesoporous silica as highly potent antimicrobial and cytotoxic agents. Applied Surface Science. 520. 146379. 10.1016/j.apsusc.2020.146379.,
16. Popa M, **Măruțescu L**, Oprea E, Bleotu C, Kamerzan C, Chifiriuc M, Pircalabioru G. 2020. In Vitro Evaluation of the Antimicrobial and Immunomodulatory Activity of Culinary Herb

Essential Oils as Potential Perioceutics. Antibiotics. 9. 428. 10.3390/antibiotics9070428.,

17. Vrancianu O, Pelcaru C, Alistar A, Gheorghe I, **Marutescu L**, Popa M, Gradisteanu G, Chifiriuc M. 2020. Biocides role in the selection and dissemination of resistant Acinetobacter baumannii clones. Romanian Biotechnological Letters. 25. 1823-1831. 10.25083/rbl/25.4/1823.1831.
18. Marc G., Araniciu C., Oniga S., Vlase L., Pirnau A., Nadăș G., Novac C., Matei I., Chifiriuc M., **Măruțescu L**., Oniga O. 2019. Design, Synthesis and Biological Evaluation of New Piperazin-4-yl-(acetyl-thiazolidine-2,4-dione) Norfloxacin Analogues as Antimicrobial Agents. Molecules. 24. 3959.
19. **Măruțescu L**., Jaga M., Postolache C., Barbuceanu F., Miliță N., Romașcu L. Schmitt H, de Roda Husman A.M., Sefeedpari P., Glaeser S., Kämpfer P., Boerlin P., Topp E., Grădișteanu Pîrcălăbioru G., Chifiriuc M.C., Popa M. Insights into the impact of manure on the environmental antibiotic residues and resistance pool. (2022). Frontiers in Microbiology, 1316, 965132
20. Apostol, T.-V.; Chifiriuc, M.C.; Nitulescu, G.M.; Olaru, O.T.; Barbuceanu, S.-F.; Socea, L.-I.; Pahontu, E.M.; Karmezan, C.M.; **Marutescu, L.G**. In Silico and In Vitro Assessment of Antimicrobial and Antibiofilm Activity of Some 1,3-Oxazole-Based Compounds and Their Isosteric Analogues. Appl. Sci. 2022, 12, 5571. https://doi.org/10.3390/app12115571
21. Apostol, T.-V., Chifiriuc, M.C., Draghici, C., Socea, L.-I., **Marutescu, L.G**., Olaru, O.T., Nitulescu, G.M., Pahontu, E.M., Saramet, G., Barbuceanu, S.-F. Synthesis, in silico and in vitro evaluation of antimicrobial and toxicity features of new 4 - [(4 - chlorophenyl)sulfonyl] benzoic acid derivatives (2021) Molecules, 26 (16), art. no. 5107, DOI: 10.3390/molecules26165107
22. Apostol, T.-V., **Marutescu, L.G**., Draghici, C., Socea, L.-I., Olaru, O.T., Nitulescu, G.M., Pahontu, E.M., Saramet, G., Enache - preoteasa, C., Barbuceanu, S.-F. Synthesis and biological evaluation of new n - acyl - α - amino ketones and 1,3 - oxazoles derivatives (2021) Molecules, 26 (16), art. no. 5019, DOI: 10.3390/molecules26165019
23. Vlad, I.M.; Nuță, D.C.; Ancuceanu, R.V.; Caproiou, M.T.; Dumitrascu, F.; Marinas, I.C.; Chifiriuc, M.C.; **Măruţescu, L.G**.; Zarafu, I.; Papacocea, I.R.; Vasile, B.Ș.; Nicoară, A.I.; Ilie, C.-I.; Ficai, A.; Limban, C. New O-Aryl-Carbamoyl-Oxymino-Fluorene Derivatives with MI-Crobicidal and Antibiofilm Activity Enhanced by Combination with Iron Oxide Nanoparticles. Molecules 2021, 26, 3002. https://doi.org/10.3390/molecules26103002

Proiecte de cercetare

Director / membru cheie de proiect:

1. PN-III-P2-2.1-PED-2021-2115 (620 PED).Dezvoltarea unei metode rapide bazate pe citometria în flux pentru testarea eficienței dezinfectanților față de bacterii izolate din infecții nosocomiale
2. PN II PCCA 259/2014 (2014-2016) - Bioceramic composites with local applications in antibacterial therapy.
3. PN III P1-1.1-MC-2017-2129 - Metodă rapidă bazată pe citometria în flux pentru detectarea microorganismelor și testare a sensibilității la antibiotice direct din produsele patologice.

Membru în echipa de cercetare (proiecte din 2005, după obținerea titlului de doctor):

Proiecte internaționale:

1. ERANET-JPI- EC-AMR –AWARE - WWTP (2017-2020) - Antibiotic resistance in wastewater: transmission risks for employees and residents around waste water treatment plants / rezistența la antibiotice în apele uzate: riscuri de transmitere la angajați și la rezidenții din proximitatea stațiilor de tratare a apelor reziduale. nr. Coord. Prof. Dr. Ana Maria de Roda Husman, Utrecht University, Nederlands.
2. COFUND M-ERA.NET II / Contract 74/2017, BIOMB, Materiale avansate biodegradabile pe bază de MgB2 rezistente la colonizarea microbiană. Coord. INCDFM.
3. ERA-NET COFUND-JPI-EC-AMR-ARMIS (2018-2021) – Antimicrobial resistance manure intervention strategies./ strategiile de intervenție asupra gunoiului de grajd cu privire la rezistența la antibiotice. Coord. Prof. Dr. Ana Maria de Roda Husman, Utrecht University, Nederlands.
4. FP7-Cooperation (2009-2011) - Occupational health and safety economics –ROWER) Health - 2007- 4.2-3: Building a knowlwdge repository for occupational well-being economics research (ROWER),Coord. Dr. A.Targoutzidis, Greece.

Proiecte naționale:

5. PNRR-III-C9-2022 – I5, Contract nr. 760010/30.12.2022.ResPonSE“Cercetare integrată și soluții sustenabile pentru protecția și restaurarea ecosistemelor din bazinul inferior al Dunării – zona costieră a Mării Negre“.
6. PN-III-P4-ID-PCCF2016-011 (2018-2022), Selecția și diseminarea genelor de rezistență la antibiotice de la nivelul stațiilor de epurare a apelor uzate în mediul acvatic și sectorul clinic.

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LISTĂ DE LUCRĂRI

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