

## GRATIELA GRADISTEANU (PIRCALABIORU)



📍 Str. Aviatiei, nr 15, sector 1, Bucuresti, Romania

☎ - 📠 0040727668664

✉ [gratiela.gradisteanu@icub.unibuc.ro](mailto:gratiela.gradisteanu@icub.unibuc.ro)

Sex F | Data nasterii 28.06.1987 | Nationalitate Romana

### EXPERIENȚĂ

**Conferentiar universitar, Universitatea din Bucuresti, Februarie 2024-prezent**

**Cercetator stiintific CS II, Team leader in Molecular Diagnostics – e Bio-hub Research Center, Universitatea Politehnica din Bucuresti, Ianuarie 2023-prezent**

**Responsabilitati:** Project management (Steering Committee Member), Omics (next generation sequencing, Proteomics), CRISPR-Cas, assay development , biopsie lichida

**Cercetator stiintific CS II - Decembrie 2022-prezent , Insitul de Cercetare al Universitatii Bucuresti (ICUB)**

**Responsabilitati:** Next generation sequencing, teste *in vivo*, culturi celulare, qRT-PCR

**Cercetator stiintific CS III - Aprilie 2016- Decembrie 2022 , Insitul de Cercetare al Universitatii Bucuresti (ICUB)**

**Responsabilitati:** ecologie microbiana, teste *in vivo*, microchirurgie pe animale de laborator, culturi celulare, imunohistochimie, histopatologie, microscopie clasica si imunofluorescenta, microscopie confocala, qRT-PCR

**Director proiect:**

**PN-III-P1-1.1-PD-2019-0499 - Analiza integrativa a profilului multi omic si a NADPH oxidazelor in diabetul zaharat de tip 2-2021-prezent**

**Proiect Soluții** - Tehnici avansate și creșterea performanței în detecția precoce a virusului SARS-CoV-2 (iunie 2020-decembrie 2021)

**Proiect AOSR Teams** – Mai 2022-December 2023

**SANIMED International Impex S.R.L, Noiembrie 2016-Iunie 2022**

**Director de proiect:** *52PTE Hidrogeluri compozite pe baza de nanoparticule anorganice si collagen cu activitate antimicrobiana prelungita pentru prevenirea infectiilor de plaga*

Novel textiles for parietal defects (Horizon 2020, Manunet project)

POC-G (POINGBIO)- Knowledge transfer in polymers used for biomedical engineering: Aprilie 2018-Septembrie 2019

POC-G (INTELBIOMED )-Stem cell research and biomaterials- knowledge transfer for medical biotechnology and health -Martie 2020-Martie 2021

**Postdoctorand**, Noiembrie 2015-Martie 2016 **University College Dublin, Irlanda**

**Responsabilitati:** Animale modificate genetic, genotipare, izolarea de celule epiteliale intestinale, neutrofile si macrophage peritoneale, imunohistochimie, histopatologie, microscopie clasica si imunofluorescenta, microscopie confocala

**Asistent de cercetare (Graduste Research assistant)**, 2011-2015, Conway Institute, University College Dublin, Irlanda

## EDUCAȚIE

**University College Dublin, Dublin, Irlanda**

**Studii doctorale, 2011-2015**

- Titlul tezei de doctorat: Role of NADPH oxidases in gut mucosal immunity (Rolul NADPH oxidazelor in imunitatea mucoasei intestinale)
- Proiectul tezei doctorale a cuprins generarea de noi linii de soareci modificati genetic deficienti in proteina transmembranara p22<sup>phox</sup> ; functia speciilor reactive de oxigen produse de epiteliul intestinal a fost analizata utilizand modele de infectie in vivo si ex vivo precum si determinari de compozitie a microbiotei.
- Tehnici utilizate: administrarea de agenti infectiosi si neinfectiosi prin gavaj si injectie intraperitoneala, punctie cardiaca, analize de comportament si bunastare a animalelor de-a lungul procedurilor experimentale, izolarea de celule epiteliale intestinale, neutrofile si macrofage peritoneale, imunohistochimie, histopatologie, microscopie clasica si imunofluorescenta, microscopie confocala, determinare de specii reactive de oxigen, genotipare, qRT-PCR, ELISA, Western blot, sisteme-micro test API, analiza virulentei bacteriene, fiziologie. gastrointestinala (permeabilitate si motilitate intestinala)

**Democritus University of Thrace, Orestiada, Grecia**

Bursa Erasmus, 02/2010 - 07/2010

- Responsabilitate principala: Organizarea unui nou laborator de biologie moleculara
- Tehnici si abilitati: comandarea instrumentarului de biologie moleculara, organizare generala a unui nou laborator, testarea microbiologica a apei si produselor alimentare, extrarctia ADN-ului din patogeni bacterieni, PCR (PCR clasic, Nested PCR, Touchdown PCR, Multiplex PCR), design de primeri

**Facultatea de Biologie, Universitatea Bucuresti , Romania**

Master Biotehnologie microbiana si Genetica

- Ttlul tezei de masterat: Proteinele de soc termic- agenti de diagnostic
- Tehnici aplicate: Western blot, ELISA, PCR, fractionarea de cellule bacteriene, inoculare intraperitoneala, colectarea de sange prin punctie retroorbitala

Licenta in Biochimie

- Titlul tezei de licenta: Rolul proteinelor de soc termic in infectie
- Tehnici aplicate: PCR, analiza virulentei tulpinilor de *Vibrio sp.*, analiza aderenței si invaziei tulpinilor de *Vibrio sp.*

Practica in laborator de microbiologie, 2006-2008

- Tehnici: Metode de sterilizare, tehnici de cultura bacteriana, preparare medii de cultura, analiza microbiologica a apei, coloratia Gram, izolarea, identificarea si cuantificrea microorganismelor, testarea susceptibilitatii la antibiotic (metoda disc difuzimetrica),

## COMPETENȚE

Limbi straine	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Interactie verbala	Vorbire	
Engleza	C2	C2	C2	C2	C2
Franceza	B2	B2	B1	B2	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

**Competente de comunicare**      Compente bune de comunicare, dovedite prin numeroase prezentari la conferinte nationale si internationale

**Competente manageriale si organizatorice**      Supervizare studenti, masteranzi , doctoranzi (in cadrul ICUB), Management proiecte de cercetare (SANIMED)

### Informatica:

Metagenomica -QIIME, DADA 2  
Metagenomic rpedisction - PiCrust, Tax4fun  
Microsoft Office (Word, Excel, Power Point); Adobe Illustrator  
Graphpad prism, Analiza statistica  
Alinieri multiple si arbori filogenetici  
VMD-Visual Molecular Dynamics (modelare molecualra)

**Altele**      Acreditare pentru lucrul cu animale de laborator-Certificat LAST Animal Procedures Act, Martie 2011, Dublin, Irlanda  
Arii de expertiza: administrarea de agenti infectiosi si neinfectiosi prin gavaj si injectie intraperitoneala, punctie cardiaca, analize de comportament si bunastare a animalelor de-a lungul procedurilo rexperimentale, izolarea de cellule epiteliale intestinale, fiziologie. gastrointestinala (permeabilitate si motilitate intestinala)  
Microscopie ai analiza de microbiota: 12-28 Mai 2013,Cambridge,MareaBritanie – Wellcome Trust Advanced Curs: Molecular Basis of Bacterial Infection –Curs de pregatire si certificare in microscopie: microscopie clasica si imunofluorescenta, microscopie confocala, analiza microbiotei (tehnici clasice si secventiere de ultima generatie).

## PUBLICAȚII

**Link** **Google** **scholar** **-**  
[https://scholar.google.com/citations?user=fLX\\_IEMAAAAJ&hl=ro&authuser=2](https://scholar.google.com/citations?user=fLX_IEMAAAAJ&hl=ro&authuser=2)

**Indice Hirsch – 18 Web of Science**, 2100 citari (Google Scholar)

### Conferinte

**10-13 Aprilie 2010** – 20th European Congress of Clinical Microbiology and Infectious Diseases, Vienna, Austria – Poster

**12-28 Mai 2013** – Wellcome Trust Advanced Course: Molecular Basis of Bacterial Infection – Curs de pregătire în microscopie

**4-5 Septembrie 2014** - Irish Society for Immunology Annual Meeting – Prezentare orală

**10-11 Septembrie 2014** - UCD Conway Festival of Research & Innovation, University College Dublin- poster

**9-12 Octombrie 2014**-9<sup>th</sup> European Mucosal Immunology Group Meeting, University of Glasgow, UK - poster

**16 Decembrie 2014** - Dublin Academy of Pathogenomics and Infection Biology Meeting, University College Dublin – Prezentare orală (castigator )

**8 Septembrie 2015** - Gene-Editing, transgenics & stem cells: Frontiers in medicine and molecular therapeutics – poster

**9 Martie 2019**- INTERDIAB (International Diabetes Conference)-prezentare orală

**7 iunie 2019**- Excelenta în Medicina Personalizată, Prezentare orală

**Congres Soc. Romana de Endocrinologie 19-24 iunie 2022**- Microbiomul în diabet și sindrom metabolic (Gratiela Gradisteanu Pircalabioru\*, Iuliana Ilie, Luciana Oprea, Madalina Musat, Mariana Carmen Chifiriuc)- prezentare orală

**Conferinta CEDA** (Central European Diabetes Association ), 23-25 iunie 2022, Viena, Austria – Microbiota and Diabetes A tightening connection –Anca Pantea Stoian& Gratiela Gradisteanu prezentare orală

**ECCMID2022, Lisabona, 23-26.04.2022**- Gut microbiome profiles in type 2 diabetes patients after COVID-19- Gratiela GRADISTEANU\* (1), Mariana-Carmen CHIFIRIUC (1), Octavian SAVU (2), Marcela POPA (1), Luminita MARUTESCU (1) - (1)Research Institute of University of Bucharest,Romania, (2)National Institute of Diabetes, Nutrition, and Metabolic Diseases “N.C. Paulescu”,Romania - prezentare orală

**International Society of Microbiota (ISM) Targeting Microbiota 2022 Congress, 19-21.10.2022, Paris, Franta** - poster A FOCUS ON THE GUT-KIDNEY AXIS IN DIABETES - ROLE OF THE MICROBIOME (Gratiela GRadisteanu Pircalabioru, Mariana-Carmen Chifiriuc, Octavian Savu)

**SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE „D. BRANDZA”** Ediția a XXVIII-a, 4-5.11.2022, poster Analiza rezistomului asociat diabetului zaharat de tip 2- Gratiela GRĂDIȘTEANU PÎRCĂLĂBIORU, Ilda BARBU, Irina GHEORGHE-BARBU, Georgiana GRIGORE, Octavian SAVU, Mariana-Carmen CHIFIRIUC

**CIVIS Summer School on Tumor heterogeneity 11-16.07.2022 (Coordonator)-**

<https://civis.eu/ro/civis-courses/exploring-the-emerging-role-of-the-host-microbiome-in-tumour-heterogeneity>

**Microbiome and Nutrition, workshop international CIVIS, organizat de Gratiela Gradisteanu** - <https://civis.eu/ro/civis-courses/workshop-nutrition-and-the-gut-microbiome>

**Microbiota related Research Tolls-** workshop international CIVIS -prezentare Gratiela Gradisteanu <https://civis.eu/ro/civis-courses/workshop-on-microbiota-related-research-tools>

**CIVIS webinar** on Diabetic cardiomyopathy, 8 Iulie 2022 -The gut microbiome involvement in type 2 diabetes and its complications, prezentare orala Gratiela Gradisteanu

**FENS webinar** - The microbiome, immunity, and neurodevelopment triologue, - from womb to adulthood , 21.10.2022 , prezentare orala Gratiela Gradisteanu

*Microbiota in Oral and Digestive Health: From research to clinical practice*, Roma, 11-14 iulie 2022, prezentare orala G. Gradisteanu

(<https://web.uniroma1.it/medeodonto/en/content/civis-summer-school-microbiota-oral-and-digestive-health-research-clinical-practice>)

*CIVIS Summer School on Drug Discovery- online lectures, March 2022*

*CIVIS Summer School of «Infectious respiratory diseases and immunity: Focus on early life period »* June 2023

*CIVIS Webinar Current Progress in the development of novel antimicrobials* -8 .06.2022

1. Gradisteanu Pircalabioru G, Raileanu M, Dionisie MV, Lixandru-Petre IO, Iliescu C. Fast detection of bacterial gut pathogens on miniaturized devices: an overview. *Expert Rev Mol Diagn.* 2024 Mar;24(3):201-218. doi: 10.1080/14737159.2024.2316756. Epub 2024 Feb 13.
2. Gradisteanu Pircalabioru G, Musat M, Elian V, Iliescu C. Liquid Biopsy: A Game Changer for Type 2 Diabetes. *Int J Mol Sci.* 2024 Feb 25;25(5):2661. doi: 10.3390/ijms25052661.
3. Gradisteanu Pircalabioru, G.; Grigore, G.A.; Czobor Barbu, I.; Chifiriuc, M.-C.; Savu, O. Impact of COVID-19 on the Microbiome and Inflammatory Status of Type 2 Diabetes Patients. *Biomedicines* **2023**, *11*, 179. <https://doi.org/10.3390/biomedicines11010179>
4. Iesanu MI, Zahiu CDM, Dogaru IA, Chitimus DM, Pircalabioru GG, Voiculescu SE, Isac S, Galos F, Pavel B, O'Mahony SM, Zagrean AM. Melatonin-Microbiome Two-Sided Interaction in Dysbiosis-Associated Conditions. *Antioxidants (Basel).* 2022 Nov 14;11(11):2244. doi: 10.3390/antiox11112244.
5. Gradisteanu Pircalabioru, G.; Chifiriuc, M.-C.; Picu, A.; Petcu, L.; Trandafir, M.; Savu, O. Snapshot into the Type-2-Diabetes-Associated Microbiome of a Romanian Cohort. *Int. J. Mol. Sci.* **2022**, Nov 30;23(23):15023. doi: 10.3390/ijms232315023.
6. Tozar T, Nistorescu S, Boni M, Gradisteanu Pircalabioru G, Negut I, Staicu A. Pulsed Laser Photo-Crosslinking of Gelatin Methacryloyl Hydrogels for the Controlled Delivery of Chlorpromazine to Combat Antimicrobial Resistance. *Pharmaceutics.* 2022 Oct 6;14(10):2121. doi: 10.3390/pharmaceutics14102121.
7. Gheorghita D, Grosu E, Robu A, Ditu LM, Deleanu IM, Gradisteanu Pircalabioru G, Raiciu AD, Bitai AI, Antoniac A, Antoniac VI. Essential Oils as Antimicrobial Active Substances in Wound Dressings. *Materials (Basel).* 2022 Oct 6;15(19):6923. doi: 10.3390/ma15196923.
8. Marutescu LG, Jaga M, Postolache C, Barbuceanu F, Milita NM, Romascu LM, Schmitt H, de Roda Husman AM, Sefeepari P, Glaeser S, Kämpfer P, Boerlin P, Topp E, Gradisteanu Pircalabioru G, Chifiriuc MC, Popa M. Insights into the impact of manure on the environmental antibiotic residues and resistance pool. *Front Microbiol.* 2022 Sep 16;13:965132. doi: 10.3389/fmicb.2022.965132
9. Balta I, Butucel E, Stef L, Pet I, Gradisteanu-Pircalabioru G, Chifiriuc C, Gundogdu O, McCleery D, Corcionivoschi N. Anti-*Campylobacter* Probiotics: Latest Mechanistic Insights. *Foodborne Pathog Dis.* 2022 Oct;19(10):693-703. doi: 10.1089/fpd.2022.0039.
10. Alistar CF, Nica IC, Nita-Lazar M, Vasile GG, Gheorghita S, Croitoru AM, Dolete G, Mihaiescu DE, Ficai A, Craciun N, Gradisteanu Pircalabioru G, Chifiriuc MC, Stan MS, Dinischiotu A. Antioxidative Defense and Gut Microbial Changes under Pollution Stress in *Carassius gibelio* from Bucharest Lakes. *Int J Environ Res Public Health.* 2022 Jun 19;19(12):7510. doi: 10.3390/ijerph19127510.
11. Tihăuan BM, Axinie Bucos M, Marinaș IC, Avram I, Nicoară AC, Grădișteanu-Pîrcălăbioru G, Dolete G, Ivanof AM, Onisei T, Cășărică A, Pîrvu L. Evaluation of the Putative Duplicity Effect of Novel

- Nutraceuticals Using Physico-Chemical and Biological In Vitro Models. *Foods*. 2022 Jun 1;11(11):1636. doi: 10.3390/foods11111636.
12. Gheorghe-Barbu I, Barbu IC, Popa LI, Pircălăbioru GG, Popa M, Măruțescu L, Niță-Lazar M, Banciu A, Stoica C, Gheorghe Ș, Lucaciu I, Săndulescu O, Paraschiv S, Surleac M, Talapan D, Muntean AA, Preda M, Muntean MM, Dragomirescu CC, Popa MI, Oțlea D, Chifiriuc MC. Temporo-spatial variations in resistance determinants and clonality of *Acinetobacter baumannii* and *Pseudomonas aeruginosa* strains from Romanian hospitals and wastewaters. *Antimicrob Resist Infect Control*. 2022 Sep 14;11(1):115. doi: 10.1186/s13756-022-01156-1
  13. Ionica E, Gaina G, Tica M, Chifiriuc MC, **Gradisteanu-Pircalabioru G**. Contribution of Epithelial and Gut Microbiome Inflammatory Biomarkers to the Improvement of Colorectal Cancer Patients' Stratification. *Front Oncol*. 2022 Feb 7;11:811486. doi: 10.3389/fonc.2021.811486.
  14. **Gradisteanu Pircalabioru G**, Ilie I, Oprea L, Picu A, Petcu LM, Burlibasa L, Chifiriuc MC, Musat M. Microbiome, Mycobiome and Related Metabolites Alterations in Patients with Metabolic Syndrome-A Pilot Study. *Metabolites*. 2022 Feb 28;12(3):218. doi: 10.3390/metabo12030218.
  15. Ilie CI, Oprea E, Geana EI, Spoiala A, Buleandra M, **Gradisteanu Pircalabioru G**, Badea IA, Fikai D, Andronescu E, Fikai A, Ditu LM. Bee Pollen Extracts: Chemical Composition, Antioxidant Properties, and Effect on the Growth of Selected Probiotic and Pathogenic Bacteria. *Antioxidants (Basel)*. 2022 May 12;11(5):959.
  16. Balta I, Stef L, Butucel E, **Gradisteanu Pircalabioru G**, Venig A, Ward P, Deshaies M, Pet I, Stef D, Koyun OY, Callaway TR, Gundogdu O, Corcionivoschi N. The Antioxidant Effect of Natural Antimicrobials in Shrimp Primary Intestinal Cells Infected with *Nematopsis messor*. *Antioxidants (Basel)*. 2022 May 15;11(5):974. doi: 10.3390/antiox11050974.
  17. Nicu AT, Medar C, Chifiriuc MC, **Gradisteanu Pircalabioru G\***, Burlibasa L. Epigenetics and Testicular Cancer: Bridging the Gap Between Fundamental Biology and Patient Care. *Front Cell Dev Biol*. 2022 Apr 8;10:861995. doi: 10.3389/fcell.2022.861995
  18. **Gradisteanu Pircalabioru G**, Iliescu FS, Mihaescu G, Cucu AI, Ionescu ON, Popescu M, Simion M, Burlibasa L, Tica M, Chifiriuc MC, Iliescu C. Advances in the Rapid Diagnostic of Viral Respiratory Tract Infections. *Front Cell Infect Microbiol*. 2022 Feb 10;12:807253. doi: 10.3389/fcimb.2022.807253
  19. Vasilescu IM, Chifiriuc MC, **Pircalabioru GG**, Filip R, Bolocan A, Lazăr V, Dițu LM, Bleotu C. Gut Dysbiosis and *Clostridioides difficile* Infection in Neonates and Adults. *Front Microbiol*. 2022 Jan 20;12:651081. doi: 10.3389/fmicb.2021.651081.
  20. Ghitman J, **Pircalabioru GG**, Zainea A, Marutescu L, Iovu H, Vasile E, Stavarache C, Vasile BS, Stan R. Macrophage-targeted mannose-decorated PLGA-vegetable oil hybrid nanoparticles loaded with anti-inflammatory agents. *Colloids Surf B Biointerfaces*. 2022 May;213:112423. doi: 10.1016/j.colsurfb.2022.112423.
  21. Cojocaru E, Ghitman J, **Pircalabioru GG**, Stavarache C, Serafim A, Vasile E, Iovu H. Electrospun Nanofibrous Membranes Based on Citric Acid-Functionalized Chitosan Containing rGO-TEPA with Potential Application in Wound Dressings. *Polymers (Basel)*. 2022 Jan 12;14(2):294. doi: 10.3390/polym14020294.
  22. Rodríguez-Molina D, Berglund F, Blaak H, Flach CF, Kemper M, Marutescu L, **Pircalabioru Gradisteanu G**, Popa M, Spießberger B, Wengenroth L, Chifiriuc MC, Larsson DGJ, Nowak D, Radon K, de Roda Husman AM, Wieser A, Schmitt H. International Travel as a Risk Factor for Carriage of Extended-Spectrum  $\beta$ -Lactamase-Producing *Escherichia coli* in a Large Sample of European Individuals-The AWARE Study. *Int J Environ Res Public Health*. 2022 Apr 14;19(8):4758. doi: 10.3390/ijerph19084758
  23. Iliescu FS, Ionescu AM, Gogianu L, Simion M, Dediu V, Chifiriuc MC, **Pircalabioru GG\***, Iliescu C. Point-of-Care Testing-The Key in the Battle against SARS-CoV-2 Pandemic. *Micromachines (Basel)*. 2021 Nov 27;12(12):1464. doi: 10.3390/mi12121464.
  24. Cojocaru E, Ghitman J, Biru EI, **Pircalabioru GG**, Vasile E, Iovu H. Synthesis and Characterization of Electrospun Composite Scaffolds Based on Chitosan-Carboxylated Graphene Oxide with Potential Biomedical Applications. *Materials (Basel)*. 2021 May 13;14(10):2535.
  25. Balta I, Marcu A, Linton M, Kelly C, Stef L, Pet I, Ward P, **Pircalabioru GG**, Chifiriuc C, Gundogdu O, Callaway T, Corcionivoschi N. The in vitro and in vivo anti-virulent effect of organic acid mixtures against *Eimeria tenella* and *Eimeria bovis*. *Sci Rep*. 2021 Aug 10;11(1):16202. doi: 10.1038/s41598-021-95459-9.

26. Ghitman J, Biru EI, Cojocaru E, **Pircalabioru GG**, Vasile E, Iovu H. Design of new bioinspired GO-COOH decorated alginate/gelatin hybrid scaffolds with nanofibrous architecture: structural, mechanical and biological investigations. *RSC Adv.* 2021 Apr 13;11(22):13653-13665. doi: 10.1039/d1ra01432c.
27. Wengenroth L, Berglund F, Blaak H, Chifiriuc MC, Flach CF, **Pircalabioru GG**, Larsson DGJ, Marutescu L, van Passel MWJ, Popa M, Radon K, de Roda Husman AM, Rodríguez-Molina D, Weinmann T, Wieser A, Schmitt H. Antibiotic Resistance in Wastewater Treatment Plants and Transmission Risks for Employees and Residents: The Concept of the AWARE Study. *Antibiotics (Basel).* 2021 Apr 21;10(5):478. doi: 10.3390/antibiotics10050478.
28. Rodríguez-Molina D, Berglund F, Blaak H, Flach CF, Kemper M, Marutescu L, **Gradisteanu GP**, Popa M, Spießberger B, Weinmann T, Wengenroth L, Chifiriuc MC, Larsson DGJ, Nowak D, Radon K, de Roda Husman AM, Wieser A, Schmitt H. Carriage of ESBL-producing Enterobacterales in wastewater treatment plant workers and surrounding residents - the AWARE Study. *Eur J Clin Microbiol Infect Dis.* 2021 Dec 13:1–16. doi: 10.1007/s10096-021-04387-z. Epub ahead of print.
29. Mihaescu G, Chifiriuc MC, Vrancianu CO, Constantin M, Filip R, Popescu MR, Burlibasa L, Nicoara AC, Bolocan A, Iliescu C, **Gradisteanu Pircalabioru G**. Antiviral Immunity in SARS-CoV-2 Infection: From Protective to Deleterious Responses. *Microorganisms.* 2021 Dec 13;9(12):2578. doi: 10.3390/microorganisms9122578.
30. Badica P, Batalu ND, Burdusel M, Grigoroscuta MA, Aldica G, Enculescu M, **Gradisteanu Pircalabioru G**, Popa M, Marutescu LG, Dumitriu BG, Olariu L, Bicu A, Purcareanu B, Operti L, Bonino V, Agostino A, Truccato M, Chifiriuc MC. Antibacterial composite coatings of MgB<sub>2</sub> powders embedded in PVP matrix. *Sci Rep.* 2021 May 5;11(1):9591. doi: 10.1038/s41598-021-88885-2.
31. Prundeanu M, Brezoiu AM, Deaconu M, **Gradisteanu Pircalabioru G**, Lincu D, Matei C, Berger D. Mesoporous Silica and Titania-Based Materials for Stability Enhancement of Polyphenols. *Materials (Basel).* 2021 Oct 28;14(21):6457. doi: 10.3390/ma14216457.
32. Udrea AM, **Gradisteanu Pircalabioru G**, Boboc AA, Mares C, Dinache A, Mernea M, Avram S. Advanced Bioinformatics Tools in the Pharmacokinetic Profiles of Natural and Synthetic Compounds with Anti-Diabetic Activity. *Biomolecules.* 2021 Nov 14;11(11):1692. doi: 10.3390/biom11111692.
33. **Gradisteanu Pircalabioru G**, Corcionivoschi N, Gundogdu O, Chifiriuc MC, Marutescu LG, Ispas B, Savu O. Dysbiosis in the Development of Type I Diabetes and Associated Complications: From Mechanisms to Targeted Gut Microbes Manipulation Therapies. *Int J Mol Sci.* 2021 Mar 9;22(5):2763.
34. Balta I, Marcu A, Linton M, Kelly C, Gundogdu O, Stef L, Pet I, Ward P, Deshaies M, Callaway T, Sopharat P, **Gradisteanu-Pircalabioru G**, Corcionivoschi N. Mixtures of natural antimicrobials can reduce *Campylobacter jejuni*, *Salmonella enterica* and *Clostridium perfringens* infections and cellular inflammatory response in MDCK cells. *Gut Pathog.* 2021 Jun 7;13(1):37. doi: 10.1186/s13099-021-00433-5
35. **Gradisteanu Pircalabioru G**, Popa LI, Marutescu L, Gheorghe I, Popa M, Czobor Barbu I, Cristescu R, Chifiriuc MC. Bacteriocins in the Era of Antibiotic Resistance: Rising to the Challenge. *Pharmaceutics.* 2021 Feb 2;13(2):196. doi: 10.3390/pharmaceutics13020196
36. Popa LI, Gheorghe I, Barbu IC, Surleac M, Paraschiv S, Măruțescu L, Popa M, **Pîrcălăbîoru GG**, Talapan D, Niță M, Streinu-Cercel A, Streinu-Cercel A, Oțelea D, Chifiriuc MC. Multidrug Resistant *Klebsiella pneumoniae* ST101 Clone Survival Chain From Inpatients to Hospital Effluent After Chlorine Treatment. *Front Microbiol.* 2021 Jan 11;11:610296. doi: 10.3389/fmicb.2020.610296.
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98. **Grădișteanu Pîrcălăbioru G**, Chifiriuc MC, Stoica RA, Suceveanu AR, Petcu L, Picu A, Ștefan SD, Serafinceanu C, Popovic DS, Pantea Stoian A. Sevelamer carbonate modulates the Nlrp3 and Nlrp6 inflammasome expression in patients with diabetic nephropathy *Romanian archives of microbiology and immunology*, Volume 80, Issue 2, pp. 107-115, April-June 2021

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29.05.2024

## Lista de lucrări

### Gratiela Gradisteanu (Pircalabioru)

#### A. Teza de doctorat

**Pircalabioru Gratiela:** *Role of NADPH oxidases in gut mucosal immunity*, coordonator Prof. Ulla Knaus (Conway Institute, University College Dublin), Viva 18 August 2015, Conferire Titlu Doctor in Biologie -1 Decembrie 2015.

#### B. Cărți publicate

**B1. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la editurirecunoscuteînstrăinătate.**

**B2. Cărți (manuale, monografii, tratate, îndrumare etc.) publicateînțară, la editurirecunoscute CNCSIS.**

**B3. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la alteediturisau pe plan local.**

**B4. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.**

**B5. Capitole de cărți publicateînstrăinătate**

1. **Gratiela G Pircalabioru**, Ariana Picu, Laura Petcu, Marcela Popa, Mariana Carmen Chifiriuc- The Intricate Relationship between Diabetes, Diet and the Gut Microbiota- Pathophysiology- Altered Physiological States, 2018
2. Luminița Măruțescu, Mariana Carmen Chifiriuc, Carmen Postolache, **Gratiela G Pircalabioru**, Alexandra Boloca -Nanoparticles' toxicity for humans and environment, 2019, Nanomaterials for Drug Delivery and Therapy, William Andrew Publishing, pp 515-535
3. **Gratiela Gradisteanu Pircalabioru**, Coralia Bleotu, Carmen Curutiu, Grigore Mihaescu, Mariana-Carmen Chifiriuc Nanodrug delivery systems in cancer, William Andrew Publishing, pp 31-62
4. **Gratiela Gradisteanu Pircalabioru**, Octavian Savu, Grigore Mihaescu, Ovidiu Vrancianu, Mariana-Carmen Chifiriuc Dysbiosis, Tolerance, and Development of Autoimmune Diseases, IntechOpen, DOI: 10.5772/intechopen.104221

#### C. Lucrări științifice

**C1. Lucrări științifice publicate în revistecotate ISI (\*-autor correspondent)**

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**C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale (indicat și baze de date).**

105. **Gradisteanu, Gratiela P.**; Stoica, Roxana A.; Petcu, Laura; Picu, Ariana; Suceveanu, Adrian P.; Salmen, Teodor; Stefan, Diana S.; Serafinceanu, Cristian; Chifiriuc, Mariana Carmen; and Stoian, Anca P. (2019) "Microbiota signatures in type-2 diabetic patients with chronic kidney disease - A Pilot Study," *Journal of Mind and Medical Sciences: Vol. 6 : Iss. 1*, Article 20. DOI: 10.22543/7674.61.P130136
106. Emilia Panus, Mariana Carmen Chifiriuc, Coralia Bleotu, Corneliu Ovidiu Vrancianu, **Gratiela Gradisteanu**, Natalia Rosoiu. Impact of Different Parameters upon the Production of Virulence Factors in *Escherichia coli* Strains Isolated from Marine Water. *Interface Research in Applied Chemistry* 2020, 10(6):7049 – 7060
107. Chifiriuc MC, Bleotu C, **Pîrcălăbioru G**, Israil AM, Dinu S, Rută SM, Grancea C, Lazăr V. Cytokine profiles of HeLa and human diploid cells induced by different fractions of

Vibrio parahaemolyticus cultures exposed to stress conditions. Roum Arch Microbiol Immunol. 2010 Jul-Sep;69(3):164-72.

108. Iordache C, Oprea E, Bleotu C, Dumitrescu D, **Pîrcălăbioru G**, Bucur M, Larion C, Lixandru M, Israil AM, Lazăr V, Chifiriuc MC. The role of proteins expressed under the stress condition in virulence of some Vibrio strains. Roum Arch Microbiol Immunol. 2008 Jul-Dec;67(3-4):85-91.

109. Vrâncianu CO, Pelcaru CF, Alistar A, Gheorghe I, Măruțescu L, Popa M, Czobor I, **Grădișteanu G**, Dobre EG, Chifiriuc MC. Escaping from ESKAPE. Clinical significance and antibiotic resistance mechanisms in acinetobacter baumannii: A review. Biointerface Research in Applied Chemistry 2020 Biointerface Research in Applied Chemistry 11(1):8190-8203 DOI:10.33263/BRIAC111.81908203

110. **Gradișteanu Pîrcălăbioru G**, Chifiriuc MC, Stoica RA, Suceveanu AR, Petcu L, Picu A, Ștefan SD, Serafinceanu C, Popovic DS, Pantea Stoian A. Sevelamer carbonate modulates the

Nlrp3 and Nlrp6 inflammasome expression in patients with diabetic nephropathy Romanian archives of microbiology and immunology, Volume 80, Issue 2, pp. 107-115, April-June 2021

### **C3. Lucrări științifice publicate în reviste din străinătate (altele decât cele menționate anterior).**

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### **C4. Lucrări științifice publicate în reviste din țară, recunoscute (altele decât cele din baze de date internaționale).**

111. Mihaescu G, Cucu IA, **Gradisteanu G**, Mitache MM, Chifiriuc MC. ANTI-SARS-CoV-2 immune response and prevention of COVID-19 pandemic by vaccination. Proc. Rom. Acad., Series B, 2021, 23(1), p. 100-107

### **C5. Lucrări științifice publicate în reviste, altele decât cele menționate anterior**

### **C6. Lucrări științifice publicate în volumele manifestărilor științifice Manifestări științifice internaționale (abstracte)**

112. Mihaela Magdalena Mitache, Irina Alina Cucu , Oana Nicolescu , Cosmin Moldovan , Elena Rusu , Daniel Cochior, Adriana Pistol , Mihaela Leustean , Mariana-Carmen Chifiriuc, Grigore Mihaescu , **Gratiela Gradisteanu Pircalabioru**. 03143 -Seroprevalence of SARS-CoV-2 antibodies among the general population, ECCMID 2021

113. **Gratiela Gradisteanu** , Mariana-Carmen Chifiriuc , Octavian Savu , Marcela Popa, Luminita Marutescu. 00348 Gut microbiome profiles in type 2 diabetes patients after COVID-19, ECCMID 2022

### **D. Traduceri de cărți, capitole de cărți, altelucrări științifice**

-

### **E. Editare, coordonare de volume**

- Special Editor Polymers (factor impact 4.32)  
[Polymers | Special Issue : Biomaterials and Scaffolds for Tissue Engineering \(mdpi.com\)](#)
- Special Issue Editor Coatings (factor impact 2.88)  
[Coatings | Special Issue : Novel Approaches to Combat Biofilms Formed on Medical Devices \(mdpi.com\)](#)
- Special Issue Editor Frontiers in Nutrition (factor de impact 6.57)

## F. Invenții.

Procedura de obtinere de filme polimerice cu caracteristicizwitterionice obținute prin evaporare laser pentru aplicații în domeniul biomedical- A/100744/6.12.2021

## G. Contracte de cercetare INTERNAȚIONALE

1. **Membru:** *ROS signaling - Control Mechanisms and Functional Consequences* - Science Foundation Ireland, Director Prof. Ulla Knaus Valoarea totală: 1.179.285 euro.
2. **Membru:** “COFUND-AQUATIC POLLUTANTS-BIOCIDE Antibacterial biocides in the water cycle – an integrated approach to assess and manage risks for antibiotic resistance development- 2021 - 2024
3. **Membru:** “COFUND-JPI-EC-AMR-ARMIS Antimicrobial Resistance Manure Intervention Strategies -2018-2021
4. **Membru** ‘COFUND-M-ERA.NET II-BIOMB- Advanced biodegradable materials based on MgB2 resistant to microbial colonization 2017-2021
5. **Director/responsabil de proiect** COFUND-ERANET MANUNET III-PariTex New textiles for parietal defects – 2019-2021
6. **Membru** ERANET-JPI-EC-AMR -AWARE-WWT- Antibiotic Resistance in Wastewater: Transmission Risks for Employees and Residents around Waste Water Treatment Plant

## H. Contracte de cercetare NAȚIONALE

1. **Director de proiect:** PN-III-P1-1.1-PD-2019-0499 Type 2 Diabetes: a multi-OMIC view on host NAPH oxidases (NOx) and gut microbiota (2021-2022)
2. **Membru** PN-III-P2-2.1-PED-2019-4926 Novel strategies to improve the performances of medical textiles (2020-2022)
3. **Membru** PN-III-P2-2.1-PED-2019-3396 - Innovative medical device for emergency and operational medicine (2020-2022)
4. **Membru** PN-III-P2-2.1-PED-2019-4018 Evaluation of the exploitation potential Potential of Porous Materials in the tREatment of Microbiota-related dISEases – PREMISE (2020-2022)
5. **Membru** PN-III-P1-1.1-TE-2019-1506 In vitro interactions of nanoparticles with human microbiota and probiotic strains (2020-2022)
6. **Membru** PN-III-P4-ID-PCCF-2016-0114 Selection and dissemination of antibiotic resistance genes from wastewater treatment plants into the aquatic environment and clinical reservoirs (2018-2022)
7. **Director de proiect** PN-III-P2-2.1-SOL-2020-0090 Advanced techniques and increasing performance in the early detection of SARS-CoV-2 virus -1500000 RON
8. **Director de proiect** ID P\_40\_44 Partnerships for knowledge transfer in the field of polymer materials used in biomedical engineering (2016-2021)
9. **Membru** PN-III-P1-1.2-PCCDI-2017-0743 Interinstitutional program of developing advanced eco-nanotechnology solutions for multifunctional treatments of leather and textile materials (2018-2021)

10. **Membru** PN-III-P1-1.2-PCCDI-2017-0728 Integrated development project for advanced medical treatment technologies (2018-2021)
11. **Membru**PN-III-P1-1.2-PCCDI-2017-0782 Advanced Innovative approaches for predictable regenerative medicine (2018-2021)
12. **Membru**PN-III-P1-1.2-PCCDI-2017-0686 Multidisciplinary platform for integrative and systematic research of tangible and non-tangible cultural heritage and identities in Romania (2018-2021)
13. **Membru** Innovative multifunctional nanoparticle-mediated delivery of antimicrobial peptide for improved performance of medical implantsPN-III-P4-ID-PCE-2016-0884 (2017-2019)
14. **Membru**PN-III-P2-2.1-PED-2016-024 Sustainable materials based on zinc oxide for antimicrobial applications (2018-2019)
15. **Director de proiect**PN-III-P2-2.1-PTE-2016-0177 Composite hydrogels based on inorganic nanoparticles and collagen with prolonged antimicrobial activity for the prevention of wound infections (2016-2018)
16. **Membru**PN-III-P2-2.1-BG-2016-0369 Knowledge Transfer on investigation of the anti-infective and antitumoral activity of novel cosmetic and pharmaceutical formulations based on natural extracts (2016-2018)
17. **Membru**PN-II-RU-TE-2014-4-2037 Risk assessment of transposon-mediated transfer of some carbapenemase genes (2015-2017)
18. **Membru**PN-III-P1-1.1-TE-2021-1515 Insights into the resistome, mobilome and virulome of multi-drug resistant *Acinetobacter baumannii* nosocomial and aquatic isolates from Romania (2022-2024)
19. **Membru**PN-III-P1-1.1-TE-2021-0288 Biomedical applications of hybrid materials based on graphene oxide and fluorescent structures (2022-2024)

## I. Premii, distincții.

Bursa pentru Excelența Științifică, Universitatea București, 2010

Diploma Gold medal 2022- Euro invent 2020 – New zwitterionic polymeric films obtained by laser evaporation for microorganism inhibition for antimicrobial surface application

Dublin Academy of Pathogenomics and Infection -Premiuceamai buna prezentareorala(16.12.2014)

Conferințe, workshopuri :

**1. INTERDIAB2022 , Bucuresti Martie 2022**-Comparative analysis of the microbiota in type 1 and type 2 diabetes (Gratiela Gradisteanu Pircalabioru -prezentareorala)

1. **Congres Soc. Romana de Endocrinologie 19-24 iunie 2022**-Microbiomul in diabet si sindrommetabolic (Gratiela Gradisteanu Pircalabioru\*, Iuliana Ilie, Luciana Oprea, Madalina Musat, Mariana Carmen Chifiriuc)-prezentareorala

2. **Conferinta CEDA** (Central European Diabetes Association ), 23-25 iunie 2022, Viena, Austria – Microbiota and Diabetes A tightening connection –Anca Pantea Stoian & Gratiela Gradisteanu prezentareorala


3. **ECCMID2022, Lisabona, 23-26.04.2022**- Gut microbiome profiles in type 2 diabetes patients after COVID-19-Gratiela GRADISTEANU\* (1), Mariana-Carmen CHIFIRIUC (1), Octavian SAVU (2), Marcela POPA (1), Luminita MARUTESCU (1) - (1)Research Institute of University of Bucharest,Romania, (2)National Institute of Diabetes, Nutrition, and Metabolic Diseases “N.C. Paulescu”,Romania - prezentareorala

4. **International Society of Microbiota (ISM) Targeting Microbiota 2022 Congress, 19-21.10.2022, Paris, Franta - poster** A FOCUS ON THE GUT-KIDNEY AXIS IN DIABETES - ROLE OF THE MICROBIOME (Gratiela GRadisteanu Pircalabioru, Mariana-Carmen Chifiriuc, Octavian Savu)
5. **SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE „D. BRANDZA”** Ediția a XXVIII-a, 4-5.11.2022, **poster** Analiza rezistomului asociat diabetului zaharat de tip 2- Gratiela GRĂDIȘTEANU PÎRCĂLĂBIORU, Ilda BARBU, Irina GHEORGHE-BARBU, Georgiana GRIGORE, Octavian SAVU, Mariana-Carmen CHIFIRIUC
6. **CIVIS Summer School on Tumor heterogeneity 11-16.07.2022 (Coordonator)-** <https://civis.eu/ro/civis-courses/exploring-the-emerging-role-of-the-host-microbiome-in-tumour-heterogeneity>
7. **Microbiome and Nutrition, workshop international CIVIS, organizat de Gratiela Gradisteanu** -<https://civis.eu/ro/civis-courses/workshop-nutrition-and-the-gut-microbiome>
8. **Microbiota related Research Tolls-** workshop international CIVIS -prezentare Gratiela Gradisteanu <https://civis.eu/ro/civis-courses/workshop-on-microbiota-related-research-tools>
9. **CIVIS webinar** on Diabetic cardiomyopathy, 8 Iulie 2022 -The gut microbiome involvement in type 2 diabetes and its complications, prezenatreorala Gratiela Gradisteanu
10. **FENS webinar** - The microbiome, immunity, and neurodevelopment dialogue, - from womb to adulthood , 21.10.2022 , prezentareorala Gratiela Gradisteanu
11. *Microbiota in Oral and Digestive Health: From research to clinical practice*, Roma, 11-14 iulie 2022, prezentareorala G. Gradisteanu (<https://web.uniroma1.it/medeodonto/en/content/civis-summer-school-microbiota-oral-and-digestive-health-research-clinical-practice>)
12. *CIVIS Summer /school on Drug Discovery- online lectures, March 2022*
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## J. Citări

**Citări totale: 1914 (fara autocitari)**

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*Dr. GRADISTEANU Gratiela*