

INFORMAȚII PERSONALE



Mariana Carmen Chifiriuc

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Data nașterii septembrie 1974 | Naționalitatea română

EXPERIENȚA PROFESIONALĂ

2019 – prezent

Prorector UB

Universitatea din București, www.unibuc.ro

Coordonarea activității de cercetare științifică din UB și a Institutului de Cercetare al Universității din București (ICUB)

2016 – 2020

Directorul Școlii Doctorale de Ecologie

Facultatea de Biologie, Universitatea din București, www.unibuc.ro

2014 – prezent

Conducător de doctorat

Școala Doctorală de Biologie - Facultatea de Biologie, Universitatea din București, www.unibuc.ro

(10 doctori, 12 doctoranzi, 6 postdoctoranzi)

Membru în Consiliul Școlii Doctorale al Universității de Medicină și Farmacie "Carol Davila" din București -<https://umfcd.ro/despre-umfcd/organizare/scoala-doctorala/>

2014 – 2020

Coordonatorul Secțiunii Științele Vieții, Mediului și Pământului a ICUB

ICUB - Universitatea din București, www.icub.unibuc.ro

2013 – prezent

Profesor - Facultatea de Biologie - Catedra de Botanică și Microbiologie Conferențiar (2007-2013), Lector (2003-2007)

Facultatea de Biologie, Universitatea din București, www.bio.unibuc.ro

Cursuri și lucrări practice: *Microbiologie generală; Imunobiologie; Bacteriologie/Microbiologie medicală; Imunogenetică și Imunopatologie, Imunologie clinică*

Îndrumare lucrări de diplomă și disertație (cca 20/an)

Cursuri internaționale (CIVIS-European Civic University Alliance)

Chifiriuc M.C., Barbu C.I., Barbu-G. I. *Antibiotic resistant bacteria and resistance genes as emerging environmental contaminants*. CIVIS Blended Intensive Programme (BIP) H2O Pollution: holistic approach nature based solutions. 2023, SUR (Sapienza Università di Roma)

Chifiriuc M.C. *Antibiotic resistance in pediatric respiratory infections*. CIVIS summer school "Infectious Respiratory Diseases and Immunity : focus on early life period".2022, ULB (Free University of Brussels)

1997 – 2007

Biolog specialist - Institutul Național de Cercetare Dezvoltare pentru Microbiologie și Imunologie Cantacuzino Centrul Național de Referință pentru *Vibrio*

Diagnosticul fenotipic și molecular al tulpinilor bacteriene aparținând familiei Vibrionaceae, membru în echipa de cercetare a proiectelor laboratorului privind implementarea unor noi metode de investigare a toxigenității tulpinilor de Vibrionaceae și standardizarea metodei de testare a sensibilității la antibiotice, *National Data Manager* (2000-2009- raportarea și introducerea datelor de antibiorezistență naționale în cadrul rețelei –*European Antimicrobial Resistance Surveillance System-EARSS*)

EDUCAȚIE ȘI FORMARE

2000 – 2005

Doctorat în Biologie

Universitatea din București, Facultatea de Biologie

Tehnici convenționale și complementare de diagnostic al infecțiilor oportuniste bacteriene, virale, parazitare și fungice și de investigare a potențialului patogen al diferiților agenți etiologici la pacienți cu HIV /SIDA.

Locul ocupat în clasificările

Titlul tezei de doctorat: *Interacțiunea parazit-gazdă: Paraziți oportuniști*

Locul I, categoria A

1999 – 2000 **Stagiu doctoral - Institutul Pasteur din Bangui, Republica Centrafricană**

<https://research.pasteur.fr/en/network/institut-pasteur-in-bangui/>

Elucidarea statutului de patogeni primari sau oportuniști al paraziților *Blastocystis hominis*, *Entamoeba* sp. la pacienții HIV/SIDA;

Evaluarea specificității și sensibilității unor noi kituri ELISA (*Entamoeba* and *Entamoeba histolytica* II ELISA Techlab kits) pentru detectarea complexului *Entamoeba histolytica/dispar*.

Ian-Mar 2000 **Curs avansat de microbiologie medicală, cu echivalență DEA (Diplome des Etudes Approfondis)**

Institutul Pasteur din Paris, Franța <https://www.pasteur.fr/en>

1997 – 1998 **Master de taxonomie**

Facultatea de Biologie, Universitatea din București

Titlul lucrării de disertație - Familia *Vibrionaceae*- reprezentanți, caracterizare, patogenitate.

1992 – 1997 **Studii de licență în Biologie, Specializarea Biologie Medicală**

Facultatea de Biologie, Universitatea din București

Titlul lucrării de diplomă: *Aderența microbială la celulele HEP-2 și HeLa*.

1988 – 1992 **Liceul Sanitar Pitești**

Diplomă de Asistent medical

Limba(i) maternă(e)

Română

Alte limbi străine cunoscute

Engleză (avansat), Franceză (mediu), Germană (începător)

Competențe de comunicare

Competențe de comunicare dobândite prin experiența proprie din activitatea de predare, cercetare, conferințe, interviuri, publicații

Competențe organizaționale/manageriale

Prorector Cercetare, coordonator ICUB, director școala doctorală, director/responsabil în granturi și programe de cercetare naționale și internaționale și de dezvoltare instituțională, membru în comitetul de organizare/științific al unor manifestări naționale/internaționale

Membru in comitetul științific / de organizare / moderator:

Conferințe și evenimente internaționale / naționale cu participare internațională

- CIVIS Summer School Drug Design and Discovery, 2nd Edition, Bucharest, 3-7. 07. 2023
- Chair - International Scientific Conference, „Applications of Chemistry in Nanosciences and Biomaterials Engineering”, 28-30. 06.2023
- Workshop *Interacțiuni interdisciplinare la frontiera medicinei personalizate. SMART DIASPORA, Timișoara, Apr. 2023*
- *2nd OncoHub Conference, sept. 2022*
- *Al XIV-lea Congres Național de Citometrie și a V-a ediție a Școlii de Citometrie, nov. 2021*
- *1st OncoHub Conference, oct. 2021*
- *Conference in the virtual environment: Socio-Ecological Practice Research for Sustainable Landscape Governance Conference, online, Septembrie 2020*
- *International Conference - Poetized Wars and Polemic Writings in the Modern Age, Septembrie 2020, online*
- *Al XII-lea Congres Național de Citometrie, București, 2019*
- *Summer School on Flow Cytometry 3rd Edition, București, 2019*
- *Summer School on Flow Cytometry 2nd Edition, București, 2018*
- *Joint ESENIAS and DIAS Scientific Conference and 8th ESENIAS Workshop, București, 2018*
- *International Summer School and Joint Symposium on Flow Cytometry, Bucuresti, 2017*
- *Conferința Școlii Doctorale a Universității Dunărea de Jos, Galați, 2016*
- *Landscape Ecology Days, 2015*
- *2nd ROWER Conference on Occupational Health and Safety Economics, 2011*
- *Workshop - Management and quality assurance in medical laboratories. Conventional and modern microbiological and immunological methods – București, 2007*
- *Workshop - Follow up QA/QC and reference laboratory, București, 2005*
- *Workshop - Quality assurance in antimicrobial susceptibility testings, Romanian Society of Microbiology, Bucharest, Romania, 2001*
- *Atelier pratique- Le diagnostic des diarrhees au cours du SIDA de l'adulte, Pasteur Institute of Bangui, Republique Centrafricaine, 1999*

Evenimente UB/ ICUB

- A treia ediție a conferinței dedicate Zilei Internaționale a Microbiologiei, 18 Sept, 2023
- A doua ediție a conferinței dedicate Zilei Internaționale a Microbiologiei, 17 Sept, 2021
- Prima ediție a conferinței dedicate Zilei Internaționale a Microbiologiei, 17 Sept, 2019
- *Weather, climate and society*, București, 2018
- *Understanding the cross habitat interactions between aquatic and terrestrial habitats in order to optimize biodiversity, ecosystems services and management*, București, 2018
- *Counteracting Drug-Resistant Fungal Infections: A New Purpose for Ebselen?*, Bucuresti, 2018
- *BIS Seminars – From Cellular to Environmental Sciences*, Bucuresti, 2016, 2018
- Romula – the Capital of Roman Province of Dacia Inferior (Malvensis)- research program. Potential, Problems, Perspectives, Bucuresti, 2017
- Precision nutrition: Using nutrigenetics in defining individualized nutritional needs, Bucuresti, 2017
- Workshop of ICUB SVMP Fellows, București, 2017
- *World Meteorological Day Conference*, București, 2017
- *EPA Science in Decision Making to Serve Environmental, Economic, and Social Goals*, Bucuresti, 2017
- Uncertainties, Severe Weather, and Communication: How Severe Weather Communication is Changing in the United States, Bucuresti, 2017
- *Oceans, Islands and Volcanoes Of The Geologic Past In The Romanian Carpathian Mountains*, Bucuresti, 2017
- Grădini botanice universitare – de la status-quo la perspective de dezvoltare, Bucuresti 2017
- Workshop - Pharmacogenomics and risk management in personalized cancer treatment, București, Romania, 2016
- Workshop- *Natural versus anthropogenic causes of climate variability and feedback from bio-geo-chemical processes (NatClimVar)*, 2016

Ateliere organizate în cadrul unor proiecte

- Workshop finalizare proiect PCCF Selectia si diseminarea genelor de rezistenta la antibiotice de la nivelul statiilor de epurare a apelor uzate in mediul acvatic si sectorul clinic (RADAR) PN-III-P4-ID-PCCF-2016-0114. Bucuresti 2022
- Workshop - AWARE ERANET project, București, 2019
- Workshop - ARMIS ERANET project, București, 2019
- Transferul cunoașterii privind investigarea proprietăților antiinfecțioase și antitumorale ale unor noi formulări cosmetice și farmaceutice pe bază de extracte naturale, Proiect Bridge BeeHerE - Metode de investigare a proprietăților antiinfecțioase și antitumorale ale unor extracte naturale si apicole, Bucuresti , 2018
- Workshop - Medical significance of microbial biofilms, București, 2008

Lector invitat

Prezentări orale

Conferințe plenare la manifestări internaționale

- Chifiriuc M.C. - *Drosophila melanogaster - a Versatile Model for Human Cancer Research, 2nd OncoHub Conference, sept. 2022*
- Chifiriuc M.C. , Surleac M. -*Wastewater treatment plants at the crossroads of the aquatic and clinical reservoirs of antimicrobial resistance - the RADAR study, SICHEM, nov. 2022*
- Marutescu L.G. Chifiriuc M.C. *Rapid detection of pathogens and resistance – contribution of flow cytometry. Biodynamics - A Transdisciplinary Approach. 19-21.05. 2022*
- Chifiriuc M.C. Mihăescu Gr. *Drug resistance: common issues in infectious diseases and cancer* 1st OncoHub Conference. 13-15.10.2021
- Chifiriuc M.C. *Nanoparticles – a promising tool in antimicrobial strategies* - College of Health and Medical Technology, Baghdad, 26.06.2020 <https://drive.google.com/file/d/1XqBnzFlwLmKai3vx9OIO1xKOb8JAImpj/view?usp=sharing>
- Chifiriuc M.C., Lazar, V., Dumitru A., Bradu C. *Microbial adherence and biofilms: beneficial and negative consequences* The 9th International Conference On Advanced Materials, Rocam 2017&The 2nd International Symposium On Dielectric Materials And Applications, Isydma 2017 11-14 July 2017, Bucharest, Romania. <http://rocam.unibuc.ro/rocam2017/invited.php>; <http://rocam.unibuc.ro/rocam2017/>
- Chifiriuc M.C. *Antibiotic resistance and antimicrobial strategies. Challenges and perspectives.* Conferința Școlii Doctorale a Universității Dunărea de Jos, 4 Iunie, 2016, Galați http://www.cssd-udjg.uqal.ro/files/invitatie/Program_detaliat_al_conferintei_2016.pdf

Conferințe plenare la manifestări naționale

- Chifiriuc M.C. *Cercetarea și producția de imunoglobuline astăzi.* Centenarul Institutului Național Cantacuzino, 1-3 Aprilie 2021.
- Chifiriuc M.C. *Despre imunitatea antivirală.* Maratonul de nutriție, nutrienți și sănătate 25.03.2021
- Chifiriuc M.C. *Rolul imunității mucoaselor în menținerea sănătății organismului;*

- Chifiriuc MC. Rezistența la antibiotice: cauze, consecințe și strategii de combatere. 9 Decembrie 2016. Academia Romana. <https://www.ibiol.ro/sesiune/2016/Rezumate.pdf>. Pag 36

Comunicări orale la manifestări internaționale/cu participare internațională

- Chifiriuc M.C. *Research in the Context of Romanian Higher Education*. Orientation Agenda for 2021-2022 U.S. Fulbright Grantees to Romania, October 7-9, 2021
- Chifiriuc M.C. *Heads- up on Romanian Antimicrobial Resistance working group within RoChemBioNet*. Project closure meeting ERANET HCVCYSPROT. Identification of first in class chemical scaffolds against Hepatitis C Virus NS2 cysteine protease (www.hvcysprot.com)<https://www.biochim.ro/announcement-4/>
- Chifiriuc M.C. Short course of advanced optical microscopy in microbiology and immunology, Valencia, Spain, 2017
- Chifiriuc MC. *Impact of climate changes on the epidemiology of infectious diseases*, Workshop Natural versus anthropogenic causes of climate variability and feedback from bio-geo-chemical processes (NatClimVar), 18-22 Octombrie, Bucuresti, Romania <https://www.docdroid.net/VyWeHxm/program-natvarclim-final-complet-all-print-pdf>
- Chifiriuc M.C. - PAR-2-03 *Selected Oral Presentation: Flow cytometry characterization of gram positive and gram negative bacterial strains exhibiting non-enzymatic and enzymatic resistance mechanisms*- ESCCA workshop on microbiology – 16th Sept 2014, Lisbon
- Chifiriuc M.C. – pres. author). Marinescu F., Marutescu L, Popa M., Chifiriuc M.C., Gheorghe I., Savin I., Lazar V. *Antibiotic-resistance and virulence profiles in bacterial strains isolated from wastewater treatment plants and receiving waters in Romania*. O304. 22nd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), London, 31.03.2012 - 03.04.2012
- Chifiriuc M.C., Marutescu L., Mitache M., Cotar A.I., Popa M., Lazar V. *Phenotypic And Genetic Resistance And Virulence Markers In S. aureus Isolated From Nasal Exsudates*. 2nd Rower Conference On Occupational Health And Safety Economics, 27-30 April, 2011, Sinaia, Romania
- Mitache M., Marutescu L., Chifiriuc M.C., Holban A., Popa M., Pelinescu D., Bleotu C., Lazar V. *Resistance, Virulence And Epidemiological Features In Beta-Hemolytic Streptococci Isolated From Kindergarden Infantile Population, With Or Without Clinical Symptoms, Including Scarlet Fever*. 2nd Rower Conference On Occupational Health And Safety Economics, 27-30 April, 2011, Sinaia, Romania

Comunicări orale la manifestări naționale

- Chifiriuc M.C. *Antimicrobial drug resistance – research directions at the Faculty of Biology*. ZIM, Bucuresti, 18 Sept. 2023
- Chifiriuc M.C. *Evoluția și implicațiile rezistenței la antibiotice în sectorul veterinar și mediu - aspecte cheie pentru o abordare One Health* Academia Română. Secția De Științe Medicale. Comisia One Health Sesiunea De Comunicări. Rezistența La Antibiotice. 21.09.2023
- Chifiriuc M.C., Bradu C. *EU Mission Ocean-related projects at University of Bucharest & Mission Ocean Competence Center*. EU MISSION: RESTORE OUR OCEAN AND WATERS BY 2030, 16.06. 2023
- Chifiriuc M.C. *Roles of microbiota in oncologic patient management*. Interacțiuni interdisciplinare la frontiera medicinei personalizate. SMART DIASPORA, Timișoara, Apr. 2023
- Chifiriuc M.C. *Omul și microbiomul: între Eros și Thanatos*. Noi frontiere și provocări ale abordărilor transdisciplinare – Analiza și Controlul Dinamicii Sistemelor Celulare. SMART DIASPORA, Timișoara, Apr. 2023
- Carmen Chifiriuc, Luminița Măruțescu, Ilda Czobor Barbu, Marcela Popa, Irina Gheorghe Barbu, Marius Surleac, Georgiana Grigore. *Antimicrobial resistance, a One Health challenge* (Rezistența la antibiotice, o amenințare pentru sănătatea omului, animalelor și mediului). Prima editie a conferinței anuale de comunicare a rezultatelor cercetării din cadrul Universității din București, Nov. 2022.
- Chifiriuc M.C. *Antibio-rezistența și impactul său asupra civilizației actuale* - First Boehringer Ingelheim National Livestock Conference, Romania, 2019, Poiana Brasov
- Chifiriuc M.C. *RADAR - Selecția și diseminarea genelor de rezistență la antibiotice de la nivelul stațiilor de epurare a apelor uzate în mediul acvatic și sectorul clinic*– Sesiunea Științifică Anuală a INCDMM Cantacuzino. 20.11. 2018, Cercul Militar, Bucuresti-[https://cantacuzino.mapn.ro/app/webroot/fileslib/upload/files/PROGRAM%20FINAL%200CONFERINTA%20NATIONALA%20A%20INCDMM%20CANTACUZINO\(2\).pdf](https://cantacuzino.mapn.ro/app/webroot/fileslib/upload/files/PROGRAM%20FINAL%200CONFERINTA%20NATIONALA%20A%20INCDMM%20CANTACUZINO(2).pdf)
- Chifiriuc M.C. Conferința Națională a OBBCSSR, București, Martie, 2017
- Chifiriuc M.C., Lazar V. *Interacțiunea bacteriilor invazive cu gentamicina incapsulata in microcapsule polizaharidice*. Conferinta Diaspora 2012, Bucuresti, RO, 26-28 Sept 2012.
- Chifiriuc M.C., Grumezescu, A.M., Lazar V. *Tendinte actuale in dezvoltarea de noi strategii antimicrobiene*. Conferinta Diaspora 2012, Bucuresti, RO, 26-28 Sept 2012.

6 monografii în edituri naționale
7 manuale
1 ghid național
1 dicționar de termeni de specialitate
>45 de capitole în cărți (majoritatea în edituri internaționale)
14 brevete
>400 de lucrări în extenso
>200 de postere și comunicări publicate în rezumat în volumele manifestărilor naționale și internaționale

H index – 52 (Google Scholar)/ 43 (Scopus), 39 (Web of Science); Citări >12200 Google Scholar); >8200 Scopus; >7200 WOS

Recunoașterea profesională

Membru corespondent al Academiei Române -nov., 2021

Membru al Consiliului Național de Etică a Cercetării Științifice, Dezvoltării Tehnologice și Inovării (aprilie 2023)

Membru în Comisia ONE HEALTH din cadrul Secției de Științe Medicale a Academiei Române (cf. deciziei 22.09.2023 a Președintelui Academiei Române)

Membru al grupului de lucru pentru realizarea Metodologiei de metaranking și a metaranking-ului universitar național – ed. 2021, ed. 2022 (cf. ORDINULUI MINISTERULUI EDUCAȚIEI nr. 5.492 din 25 octombrie 2021 privind stabilirea grupului de lucru responsabil de realizarea exercițiului național de metaranking, Publicat în MONITORUL OFICIAL nr. 1067 din 8 noiembrie 2021)

Membru al grupului de lucru pentru realizarea metodologiei de finanțare a cercetării 2021 (cf. OME nr. 5495/2021 și OMEC nr. 3747/2021 din 28 aprilie 2021 privind finanțarea cercetării științifice universitare din cadrul instituțiilor de învățământ superior de stat în anul 2021)

5 premii

- 2 medalii de aur la Euroinvent/Proinvent
- premiul pentru cea mai bună prezentare la un congres internațional online EWMA 2020
- premiul III pentru poster prezentat la The Anniversary Conference of the Institute of Biology – 50 years of Academic Research in Microbiology, 2010
- premiul Societății Române de Microbiologie pentru posterele prezentate la congresul anual, 2007

Expert național microbiologie - proiect PHARE - EuropeAid/115101/D/SV/RO.

Expert național invitat - *Joint Programming Initiative on Antimicrobial Resistance Strategic Research and Innovation Agenda (JPIAMR SRIA) Roadmap Workshop*, 2018, Leiden, Netherlands

Evaluator

- Proiecte internaționale (ERANET, competiții Missouri, Olanda, Belgia, Israel, UK, Croația, Rep. Moldova, USA, L'Oreal-UNESCO for Women in Science Fellowship Programme)
- Proiecte naționale (Bilaterale Romania - Rep. Moldova, 2019; Idei 2008; TE 2018, Bilaterale Romania - Franța, 2018, PED 2019, AOSR 2021)
- Comisii de doctorat internaționale
- Referent publicații naționale și internaționale (peste 100 de reviste, incl. Nature)
- Nominalizată de Capital în „Top 100 Femei de Succes”, la categoria „Învățământ și Cercetare”, ediția 2022
- Invitat TedXYouth, ed. 2022

PARTICIPARE LA PROIECTE DE CERCETARE

Coordonator/responsabil în granturi și programe de cercetare după obținerea titlului de doctor:

24 proiecte cu finanțare internă +6 proiecte PD coordonate

4 programe cu finanțare externă (ERANET)

Membru cheie în granturi și programe de cercetare internațională

4 programe cu finanțare externă (Phare, ERANET, Horizon 2020)

Membri în echipa proiectelor de cercetare

1 FP7, 1 COST

47 proiecte naționale

LISTA PROIECTELOR DE CERCETARE

Director de proiecte naționale:

1. PNIII-PCE-TRANSCEND- Transcriptomic Landscape Of Host-Pathogen-Antibiotic Interactions In *Drosophila Melanogaster* Model Infected With Gram-Negative Escape Bacteria
2. PN-III-P4-ID-PCCF-2016-0114/ Contract 10 din 02/07/2018 - Selecția și diseminarea genelor de rezistență la antibiotice de la nivelul stațiilor de epurare a apelor uzate în mediul acvatic și sectorul clinic
3. PFE-2021-587- ACCENT- Cluster de excelență pentru cercetarea interdisciplinară a patrimoniului material și imaterial în cadrul Universității din București
4. PDI-PFE-CDI ID 335 - 2018 -2020 - Interdisciplinary Institutional Platform for Excellence in Research, Development, Innovation and Professional Training in Archaeological Sciences. etapele 4 și 5
5. PN-III-P3-3.1-PM-RO-CN-2018-0147 - 5BM din 02/07/2018 - Studii în silico și experimentale ale unor platforme genetice mobile de rezistență multiplă la antibiotice
6. PN-III-P4-ID-PCE-2016-0921/ Contract 179 din 12/07/2017 - 2017-2019 - Metodă rapidă bazată pe citometria în flux pentru detectarea microorganismelor și testare a sensibilității la antibiotice direct din produsele patologice

7. PN III BG- PN-III-P2-2.1-BG-2016-0369 - Transferul cunoașterii privind investigarea proprietăților antiinfecțioase și antitumorale ale unor noi formulări cosmetice și farmaceutice pe bază de extracte naturale
8. Human Resources - PN-II-RU-TE-2014-4-2037 - *Risk assessment of transposon-mediated transfer of some carbapenemase gene*
9. IDEI - 2011-2014 *Effects of P. aeruginosa quorum sensing molecules on Drosophila genome: a new tool to identify candidate genes involved in host-pathogen crosstalk*
10. CNCSIS TE 135 2010-2013 - Profiluri de virulență și antibioretistență specifice infecțiilor nosocomiale produse de tulpini de *Staphylococcus aureus* și *Pseudomonas aeruginosa*
11. Idei 296/2007 - 2010 Rolul proteinelor de soc termic în patogeniza bacteriană și potențiala lor utilizare în dezvoltarea de noi strategii antimicrobiene
12. CEEX_MII 1640 2005-2008 - Aplicații ale mecanismelor de QS în dezvoltarea unor noi strategii anti-infecțioase
13. CNCSIS 187/2007 - 2008- Rolul feromonilor bacterieni produși de pseudomonas aeruginosa în medierea interacțiunilor dintre celulele bacteriene și celulele gazdei eucariote în cursul procesului infecțios
14. CNFIS-FDI-2023-F-0690-SINCRON- Consolidarea capacității instituționale și administrative a Universității din București pentru creșterea competitivității și vizibilității rezultatelor cercetării, în sincronie cu standardele internaționale și provocările actuale
15. CNFIS-FDI-2022- 0675 Consolidarea cadrului structural, administrativ și logistic de dezvoltare a unor noi programe de cercetare interdisciplinară în domenii prioritare în cadrul Universității din București
16. CNFIS-FDI-2021-0405- NETWORK- Consolidarea și creșterea competitivității instituționale a Universității din București, prin dezvoltarea colaborărilor naționale și internaționale și creșterea vizibilității prin promovarea infrastructurilor și a rezultatelor activității de cercetare.
17. CNFIS-FDI-2020-0355 D6- CREATOR-Susținere cercetare - Consolidarea și creșterea competitivității instituționale a Universității din București ca hub de proiecte interdisciplinare și instituție-gază pentru cercetători de top din țară și din străinătate
18. UEFISCDI 2014; 2018 - Subvenții Romanian Biotechnological Letters

Responsabil partener român în proiecte internaționale

1. COFUND-M-ERA.NET II-BIOMB - *Materiale avansate biodegradabile pe bază de MgB2 rezistente la colonizare microbială (Advanced biodegradable materials based on MgB2 resistant to microbial colonization) – BIOMB*
2. JPI-EC-AMR *Joint Transnational Call for Proposals 2016 "Transmission Dynamics of Antimicrobial Resistance -Antibiotic Resistance in Wastewater: Transmission Risks for Employees and Residents around Waste Water Treatment Plants. Acronym: AWARE-WWTP*
3. COFUND-JPI-EC-AMR-ARMIS / Contract 40 din 01/05/2018 - *Strategii de intervenție asupra gunoierului de grajd cu privire la rezistența la antibiotice*
4. JPI-EC-OCEANS-Aquatic Pollutants *Joint Transnational Call 2020- BIOCIDE - Antibacterial biocides in the water cycle – an integrated approach to assess and manage risks for antibiotic resistance development,*

Responsabil partener în proiecte naționale

1. PN-III-P1-1.2-PCCDI-2017-0686, PATCULT#RO, contract no. 52PCCDI/2018- Platformă pluridisciplinară complexă de cercetare integrativă și sistematică a identităților și patrimoniului cultural tangibil și nontangibil din România
2. CDI-PFE-CDI ID 335-2018 2020- *Interdisciplinary Institutional Platform for Excellence in Research, Development, Innovation and Professional Training in Archaeological Sciences-etapele 1, 2 și 3*
3. PN-III-P1-1.2-PCCDI2017-0629 Bionanomateriale inovative pentru tratament și diagnostic.
4. PN-III-PED 234 -Materiale sustenabile pe bază de oxid de zinc pentru aplicații antimicrobiene
5. PN II PCCA 215 2014-2017 – *Innovative nanostructured materials and coatings with antimicrobial activity for medical applications.*
6. PN-III-P2-2.1-PTE-2021-0303 -GRACE- Sisteme Sinergice De Principii Active Destinate Cosmeticii Regenerative

Membru cheie în proiecte internaționale

1. SwafS Other Action 31- RIS4CIVIS-2021-2023- *Research And Innovation Strategy For Civis.*
2. M-ERA.NET (2013-2015) *Ag/Si doped carbon layer for biomedical application (CarLa)*
3. PHARE -2002-2006- *Strengthening the Institutional and Administrative Capacity of the MoHF to adopt and implement the Acquis Communautaire in the Field of Water and Related Risks project ID:EuropeAid/115101/D/SV/RO/ - Expert național microbiologie*
4. Horizon 2020-ATHENA Equality - *Gender Equality to Unlock Research Potential-
<https://www.athenaequality.eu/>*

Membru în echipa de cercetare a unor proiecte internaționale

1. FP7-Cooperation (2009- 2011) *Occupational Health and Safety economics –ROWER Health-2007- 4.2-3: Building a knowledge repository for occupational well-being economics research (ROWER)*
2. COST ACTION B 23 (2004-2006) *Oral Facial Development and Regeneration*

Coordonator cercetător postdoctoral

1. PN-III-P1-1.1-PD-2021-0540 Surleac Marius-Cartografierea elementelor genetice mobile - studiu bioinformatic asupra rezistomului ESKAPE din probe clinice și de mediu din România
2. PN-III-P1-1.1- PD-2021-0748 Tihauan Bianca-Maria -Dezvoltarea unor noi hidrogeluri cicatrizante cu biomoleculă activă încapsulate în transportori lipidici
3. PN-III-P1-1.1-PD-2021-0598 Ungureanu Gabriela-Irina-Acoperiri inovative pentru creșterea

biocompatibilității implanturilor și prevenirea infecțiilor asociate (100p)

4. PN-III-P1-1.1-PD-2019-0499 Gratiela Gradisteanu Analiza integrativa a profilului multi omic si a NADPH oxidazelor in diabetul zaharat de tip II.

5. P 1 - PN-III-P1-1.1-PD-2016-1798 -Irina Gheorghe- Studiu pilot privind evaluarea rolului apelor uzate în diseminarea tulpinilor clinice de *Pseudomonas aeruginosa* si *Acinetobacter baumannii* rezistente la carbapeneme în ecosistemul acvatic

6. PN-III-P1-1.1-PD-2016-2137 – Ilda Czobor-Cartarea inserțiilor unor transpozoni asociați cu fenomenul de antibioretistență.

Responsabil contracte cu terți.

1. 17654/13.10.2009
2. 21737/2012
3. 9489/25.06.2008
4. GJ208/05.12.2008

Membru în echipa de cercetare a unor proiecte naționale

1. PNCDI III, P2- PED-2022- ARGOS- Formulări topice multifuncționale inovatoare, bioactive pentru gestionarea rănilor maligne
 1. PN-III-P1-1.2-PCCDI2017-0782 (2018-2022) Abordari inovative avansate pentru medicina regenerativa predictivă
 2. PN-III-P1-1.2-PCCDI2017-0728 (2018-2022) Proiect integrat de dezvoltare a unor tehnologii dedicate tratamentelor medicale avansate
 3. PN III-P1-1.2-PCCDI-2017-0473 (2018-2022) De la nutritia clasica la nutritia de precizie in domeniul cresterii animalelor, baza stiintifica pentru asigurarea securitatii nutritionale a populatiei
 4. PN-III-P1-1.2-PCCDI-2017-0428 (2018-2022) Nanotehnologii inovative pe baza de polimeri pentru obtinerea de noi materiale avansate
 5. PN-III-P1-1.2-PCCDI-2017-0743 (2018-2022) Program interinstitutiional pentru dezvoltarea de solutii avansate pe baza de eco-nanotehnologii pentru tratamente multifuncționale ale materialelor textile si din piele
 6. PN-III-P2-2.1-PED-2016-0910 (2016-2018) Design inovator al suprafetei pentru prelungirea perioadei de utilizare si a sigurantei implanturilor dentare si ortopedice
 7. PN-III-P2-2.1-PTE-2016-0177-Hidrogeluri compozite pe baza de nanoparticule anorganice si colagen cu activitate antimicrobiana prelungita pentru prevenirea infectiilor de plaga
 8. PN-III-P2-2.1-BG-2016-0142 - Creșterea performanței/competitivității prin îmbunătățirea tehnologiei de obținere de produse inteligente cu biocompatibilitate și proprietăți antibacteriene superioare cu aplicații cosmeo-medicale
10. PN-III-P2-2.1-BG-2016-0397 -Contributii la imbunatatirea competitivitatii Sanimed SRL prin asimilarea cunoasterii si posibila implementare in productie a unor matrici hibride 3D colagen-polimer cu aplicatii in refacerea tisulara
11. PN-III-P2-2.1-PED-2016-1008 (2016-2018) Elaborarea unui model funcțional de celule de combustie microbiene pentru producerea de bioelectricitate cu tratarea simultană a apelor uzate municipale
12. TE 372/2015-Nanoparticule de magnetita functionalizate cu compusi naturali cu efect modulator asupra virulenței și persistenței *Pseudomonas aeruginosa*
13. PCCA 259/2014-Compozite bioceramice cu aplicatii locale in terapia antibacteriana.
14. 94/PN2/PCCA (2012-2014). Noi dispozitive tubulare protetice nanostructurate cu proprietati antibacteriene si antibiofilm induse de modificari fizico-chimice si morfologic (AntiBioTube)
15. PN-II-PT-PCCA-2011-3.1-0621 (2013-2015) Selectarea unor noi tulpini funcționale de bacterii lactice izolate din materiale vegetale, cu aplicații în biotehnologiile alimentare.
16. PN-II-PT-PCCA-2013-4-1292 (2013-2015) Materiale și acoperiri nanostructurate inovative cu activitate antimicrobiana pentru aplicații medicale
17. PN-II-PT-PCCA-2013-4-2087 (2013-2015) Sistem integrat pentru modelare biomoleculara, cu aplicabilitate la studiul bacteriilor Gram negative
18. PN II 3.1-0969 (2012-2014) Inovative, multidisciplinary research to investigate the probiotic effects of new lactic acid bacteria strains and consortia (Prolab)
19. PCCA 87/2014-Textile fotocatalitice inovative cu proprietati antibacteriene si de autocuratare.
20. CNCSIS TE 134 (2010-2013) Studiul mecanismelor moleculare ale activitatii antimicrobiene a unor tulpini probiotice fata de agenti infectiosi cu localizare urogenitala
21. PN II 62-071/2008 (2008-2011) Obținerea unui fitoprodus topic eficient in stimularea procesului de vindecare a leziunilor cutanate
22. PN II 42-150/2008 (2008-2011)- Cercetari interdisciplinare privind solutionarea unor noi aspecte de antibioretistența cu implicatii majore in patologia chirurgicala cardiovasculara si gastroenterologica
23. PN II 42095 (2007-2010) Cercetari privind sinteza, caracterizarea fizico-chimica si testarea activitatii antiinfectioase a unor noi compusi cu structura triciclica 6.7.6
24. Idei .295/2007(2007-2010) Metode alternative la testele in vivo pentru demonstrarea potentialului invaziv al tulpinilor de *Shigella* spp. si *Escherichia coli* enteroinvazive
25. CNCSIS 1679/2007 (2007-2009) Selectarea si controlul eficientei unor alternative ecologice de combatere a infectiilor oportuniste cu bacterii multirezistente la antibiotice si incluse in biofilme
26. CNCSIS 187 (2007-2009) Rolul feromonilor bacterieni produși de *P. aeruginosa* in modularea interactiunii gazda-agent infectios

27. CNCSIS A 1312 (2007-2009) Evaluarea si monitorizarea mediatorilor solubili implicati in reglarea densitatii celulare mecanismul de *quorum sensing*
28. PN II 61-046/2007-(2007-2010) Cercetări privind obținerea unor noi agenți antimicrobieni din clasa tioureidelor: sinteza, caracterizarea, fizico-chimică și screening biologic
29. PN II 1172/ 2007 (2007-2010) Parteneriat in scopul sintezei, caracterizarii fizico-chimice si testarii activitatii biologice a unor noi tioureide cu potentiala actiune antiinfecioasa
30. PN II 71-010 (2007-2009) Compozite biodegradabile cu aplicatii in realizarea amenajarilor interioare ale automobilelor
31. PN II 61-047/2007-(2006-2008) Cercetari interdisciplinare privind obtinerea unor noi agenti antimicrobieni, caracterizarea fizicochimica si testarea activitatii biologice in vederea valorificarii in terapia antiinfecioasa
32. CEEEX (VIASAN) 142/2006 (2006-2008) Constituirea unei retele integrate pentru studiul biofilmelor microbiene pe substraturi celulare si protetice, in scopul imbunatatirii diagnosticului si tratamentului infectiilor cauzate de biofilme
33. CEEEX (VIASAN) 168/2006 (2006-2008) Studiul mecanismelor de rezistenta la antibiotice prin impermeabilitate la bacteriile Gram-negative pe membrane naturale si reconstituite
34. CEEEX (RELANSIN) 199/2006 (2006-2008) Controlul interactiei celulelor umane si bacteriene cu suprafetele nanostructurate: strategii pentru realizarea de biosuprafete inteligente
35. Grant CEEEX_86/2006 (2006-2008) Aplicarea tratamentului cu fascicule de electroni accelerati in vederea decontaminarii microbiene a suplimentelor nutritive din catina
36. Grant CEEEX_85/2006 (2006-2008) Cercetări interdisciplinare privind obținerea unor noi agenți antimicrobieni, caracterizarea fizico-chimică și testarea activității biologice în vederea valorificării în terapia antiinfecioasă
37. CEEEX (RELANSIN) 129/2006 (2006-2008) Noi materiale nanostructurate biocompatibile cu proprietati dirijate si aplicatii biomedicale
38. MATNANTECH nr. 204 (403)/2004 (2004-2006) Nanospecii complexe, biomateriale cu actiune antiinfecioasa.
39. VIASAN 239 (2004-2006) Investigarea factorilor de virulenta si patogenitate la tulpini de *Aeromonas* sp. provenite din diferite surse de izolare
40. VIASAN 443 (2004-2006) Metode de imunizare locala utilizata in tratamentul afectiunilor periodontale
41. CERES 4 – 128 (2004-2006) Specii bioactive procesate ca agenti antimicrobieni
42. Grant VIASAN 475 (2004-2006) Studiul *in vitro* al rolului lectinelor bacteriene in etapele procesului infectios bacterian si elaborarea unei scheme de tipizare infraspecifica bazata pe identificarea lectinelor prin reactii de hemaglutinare
43. BIOTECH-292 (2004-2006) Model de constituire a unui laborator de colectii microbiene standardizate.
44. AGRAL 212 (2003-2005) Evaluarea biotehnologica si demonstrarea potentialelor aplicatii ale unor alternative ecologice bazate pe probiotice in fermele de animale monogastrice
45. VIASAN 224 (2003-2005) Program pilot de supraveghere a rezistentei la antibiotice
47. VIASAN 065/(2001-2003) Caracterizarea genotipica si fenotipica a unor tulpini de *Vibrio cholerae* izolate in Rep. Moldova in perioada 1995-2000

Activitate editorială

Invited guest editor

1. Current Organic Chemistry (factor de impact 2,9; SRI 2) (Topic: Quorum sensing inhibitors: synthesis, optimization, and emerging biomedical applications-<http://www.eurekaselect.com/107468/article>)
2. Curr Top Med Chem (Factor de impact 3,4) (Topic: Micro and Nanoscale Materials for Boosting the Antimicrobial Fight) <http://www.eurekaselect.com/130282/article>
3. Curr Top Med Chem (Factor de impact 3,4) (Thematic Issue: Nanobioactive Structures for Drug Targeting and Delivery) <http://www.eurekaselect.com/130281/article>
4. Molecules (Factor de impact 3) (Topic: Synthetic Antibiofilm Agents: Design, Synthesis and Applications) https://www.mdpi.com/journal/molecules/special_issues/Synthetic_Antibiofilm
5. Coatings (Factor de impact 2,33) (Special Issue; Antimicrobial/Antibiofilm Surfaces) https://www.mdpi.com/journal/coatings/special_issues/Antimicrobial_Antibiofilm_Surf
6. Materials (Factor de impact 2.9) (Special issue: Antimicrobial Bio-Nanomaterials: Current Progress and Challenges for Translating Them into the Clinical Practice) https://www.mdpi.com/journal/materials/special_issues/adv_bio-nano_curr_prog_chall_trans_clinic_prac
7. Frontiers in microbiology (Factor de impact 4.2/2021) (Topic: Current Trends in Exploiting Molecular Signaling in Bacteria-Host Crosstalk) <https://www.frontiersin.org/my-frontiers/overview>)
8. Frontiers in microbiology (Factor impact 2021 = 6/ Q1) (Topic: Common Themes in Drug Resistance: from Viruses to Human) (<https://www.frontiersin.org/my-frontiers/research-topics>)
9. Frontiers in nutrition (Impact factor 2021= 6.59/Q1)- Diet-Microbe-Host Interactions in Metabolic Syndrome (<https://www.frontiersin.org/my-frontiers/research-topics>)
10. Horticulturae (Factor de impact 2021=2.93)- Antioxidant Activity of Horticultural Plants and Leaves Extracts (https://www.mdpi.com/journal/horticulturae/special_issues/biological_compounds)
11. Frontiers in Microbiology (Factor de impact 2022- 5.2, Q2)- Zoonotic Antimicrobial Resistance and Virulence: One Health Integrated Approaches to Monitor and Reduce Food Chain Hazards

(<https://www.frontiersin.org/research-topics/59833/zoonotic-antimicrobial-resistance-and-virulence-one-health-integrated-approaches-to-monitor-and-reduce-food-chain-hazards>)
Frontiers in Microbiology (Factor de impact 2022- 5.2, Q2)- Challenges and Opportunities in Developing Biologically Active Copper Complexes as Metal-based Drugs
(<https://www.frontiersin.org/research-topics/54980/challenges-and-opportunities-in-developing-biologically-active-copper-complexes-as-metal-based-drugs>)

Membru în comitetul editorial al unor publicații naționale

1. *Romanian Biotechnological Letters* (RBL) - <http://www.rombio.eu/editorial%20board.pdf>
2. *Rom Arch. Immuinol. Microbiol.* Din 2008-<http://www.roami.ro/index.php?q=board>
3. *Biointerface Research and Applied Chemistry*-2011-<http://biointerfaceresearch.com/editorial-board/>)
4. *Letters in Applied NanoBioScience*- 2012-<http://nanobioletters.com/>
5. *Annals of West University of Timisoara, Series of Biology*
<http://www.biologie.uvt.ro/annals.htm>

Membru al unor societăți profesionale:

ESCMID (*European Society for Clinical Microbiology and Infectious Diseases*), SRM (Societatea Română de Microbiologie), SOMED (*Society of Medical Ecology and Disease*), ACR (Asociația Română de Citometrie)

Competențe digitale

Microsoft Office, baze de date (Whonet, EARSS), programe de analiză statistică (GraphPad), Biorender

Competențe tehnice

- investigarea rezistenței la antibiotice în sectorul clinic și în mediu;
- studiul sistemului gazdă – agent infecțios (evidențierea modalităților de comunicare între celulă bacteriană, virusuri și celula gazdă eucariotă, studiul mecanismelor de reglare a densității celulare la bacterii mediate de mecanismul de quorum-sensing, studiul factorilor de virulență și al expresiei coordonate a acestora în cursul procesului infecțios, studiul interacțiunilor dintre celulele bacteriene și celulele eucariote în cultură –producere de adezine, invazine, toxine și studii de patologie experimentală pe animale de laborator;
- investigarea implicațiilor imunologice în generarea leziunilor gazdei în cursul infecțiilor- evaluarea prin metode biochimice, clinice, radiologice și microbiologice ale leziunilor;
- investigarea unor noi mecanisme de rezistență la antibiotice și dezvoltarea unor metode de diagnostic rapid al infecțiilor și de determinare a sensibilității la antibiotice;
- investigarea unor alternative de tratament, inclusiv ecologice, al infecțiilor cu bacterii multirezistente și cu potențial de formare a biofilmelor- elaborarea metodologiei experimentale *in vitro* și *in vivo* de selectare a unor probiotice, prebiotice, extracte vegetale, substanțe chimice nou - sintetizate, biomateriale, nanoparticule, cu acțiune antimicrobiană, față de celulele procariote și eucariote, în stare planctonică și aderată, în scopul obținerii unor suprafețe optimizate, cu proprietăți anti-biofilm, a unor sisteme de stabilizare a unor principii active cu activitate antimicrobiană și a unor sisteme de eliberare controlată a antibioticelor;
- asigurarea calității în microbiologie, evaluarea riscului microbiologic la locul de muncă;
- studiul implicațiilor microbiotei în diferite patologii (infecții, cancer, sindrom metabolic, diabet, afecțiuni cu substrat imunologic);
- studiul microorganismelor biodeteriogene și dezvoltarea unor noi strategii de combatere a acestora.

Alte activități

Membru fondator Asociația Culturală “Prietenii Muzeului Național de Istorie a României” - proiecte realizate: Harta monumentelor istorice din România, Harta 3D a monumentelor din București, Marcarea cu plăcuțe descriptive, trilingve a 535 de clădiri cu statut de monumente istorice din București (www.monumenteromania.ro), Curtea de Argeș și Câmpulung.

Membru - Asociația Culturală Nouă Acropolă- organizarea de expoziții pe teme culturale (Egiptul Antic, Astronomie, America Precolumbiană, Renașterea europeană și românească, Istoria filosofiei), pictură pe basoreliefuluri, conferințe invitate (Schimbarea globală, Renașterea Românească, Principii geometrice în armonia formelor naturale, Monumente UNESCO din România, Aztecii, Mayașii, Arta lemnului în tradiția culturală românească, civilizații neolitice în spațiul geografic românesc, India antică, Egiptul antic, George Emil Palade) (www.nouă-acropolă.ro)

Permis de conducere

NU

PUBLICATIONS

MONOGRAPHS/SPECIALIZED BOOKS/CHAPTERS IN BOOKS

INTERNATIONAL PUBLISHERS

Books

Limban C., **Chifiriuc M.C.**, Grumezescu A.M. 2013. Thiourea derivatives as antimicrobials. LAP LAMBERT Academic Publishing 978-3659385407-2013

Chapters in books

1. Pircalabioru GG, Savu O, Mihaescu M, Vrancianu CO, **Chifiriuc MC**. 2022. *Dysbiosis, Tolerance, and Development of Autoimmune Diseases*. DOI: 10.5772/intechopen.104221
2. Moroşan A, Croitoru AM, Dolete G, Spoială A, Ficăi D, Ficăi A, **Chifiriuc MC**. 2021. *Nanotechnologies - A Modern Approach against the Development of Bacterial Resistance*. Importance & Applications of Nanotechnology. Austin Publishing Group-
<https://austinpublishinggroup.com/ebooks/nanotechnology/chapters/nanotechnologies-a-modern-approach-against-the-development-of-bacterial-resistance.pdf>
3. Lazar, Veronica; Vasilescu, Iulia Magdalena; Holban, Alina Maria; **Chifiriuc, M.C.** 2021. *The Role of Intestinal Microbiota and Microbial Metabolites in the Development of Host Metabolic Syndrome*. Nutritional Signaling Pathway Activities in Obesity and Diabetes. pp. 191-209
<https://pubs.rsc.org/en/content/ebook/978-1-78801-557-8>
4. Gheorghe, Irina; Saviuc, Crina; Ciubuca, Bianca; Lazar, Veronica; **Chifiriuc, M.C.** 2019. *Nanodrug delivery systems for transdermal drug delivery*. Nanomaterials for Drug Delivery and Therapy. pp. 225-244
<https://www.sciencedirect.com/science/article/pii/B9780128165058000102?via%3Dihub>
5. Măruţescu, Luminiţa; **Chifiriuc, M.C.**; Postolache, Carmen; Pircalabioru, Gratiela G; Bolocan, Alexandra. 2019. *Nanoparticles' toxicity for humans and environment*. Nanomaterials for Drug Delivery and Therapy. pp. 515-535
<https://www.sciencedirect.com/science/article/pii/B9780128165058000126?via%3Dihub>
6. Pircalabioru, Gratiela Gradisteanu; Bleotu, Coralia; Curutiu, Carmen; Mihaescu, Grigore; **Chifiriuc, M.C.** 2019. *Nanodrug delivery systems in cancer*. Biomedical Applications of Nanoparticles. pp. 31-62
<https://www.sciencedirect.com/science/article/pii/B9780128165065000152?via%3Dihub>
7. Picu, Ariana Aristina; Petcu, Laura Mădălina; **Chifiriuc, M.C.** 2019. *Nanobased scientific and technological solutions for the management of diabetes mellitus*. Biomedical Applications of Nanoparticles, pp. 431-456
<https://www.sciencedirect.com/science/article/pii/B9780128165065000140?via%3Dihub>
8. Măruţescu, Luminiţa; Frăţean, Diana; **Chifiriuc, M.C.** 2019. *Nanomedicine progress in prevention, detection, and treatment of tuberculosis*. Nanomaterials for Drug Delivery and Therapy, pp. 245-266
<https://www.sciencedirect.com/science/article/pii/B9780128165058000114?via%3Dihub>
9. Curutiu, Carmen; Iordache, Florin; Gurban, Petruta; Lazar, Veronica; **Chifiriuc, M.C.** 2019. *Main Microbiological Pollutants of Bottled Waters and Beverages*. Bottled and Packaged Water, pp. 403-422
<https://www.sciencedirect.com/science/article/pii/B9780128152720000143?via%3Dihub>
10. Mitache, Mihaela Magdalena; Neagu, Liliana; Curutiu, Carmen; Holban, Alina; Iordache, Elena-Gabriela Pizamosca; **Chifiriuc, M.C.** 2019. *Microbiological and Chemical Characterization of Bottled Waters in Bottled and Packaged Water*, pp. 209-226
<https://www.sciencedirect.com/science/article/pii/B9780128152720000088?via%3Dihub>
11. Popa, M., Măruţescu, L., Ion, I., Kamerzan, C., Bleotu, C., Oprea, E., **Chifiriuc, M.C.**, Lazař, V., 2018. *Antimicrobial and cytotoxic activity of graphene-based periocuticals*. Fullerenes, Graphenes and Nanotubes: A Pharmaceutical Approach. pp. 585-599
<https://www.sciencedirect.com/science/article/pii/B9780128136911000142?via%3Dihub>
12. Bleotu, C., **Chifiriuc, M.C.**, Socolov, R. And Socolov, D., 2018. *Introduction in Food Safety, Biosecurity and Hazard Control*. Food Control and Biosecurity. pp. 1-24. Elsevier
<https://www.sciencedirect.com/science/article/pii/B9780128114452000015?via%3Dihub>

13. Aiacoaboae A, Gheorghe T, Lungu II, Curutiu C, **Chifiriuc MC**, Grumezescu AM, Holban AM. 2017. *Applications of nanoscale drugs carriers in the treatment of chronic diseases*. Micro and Nano Technologies, Nanostructures for Novel Therapy, pp. 37-55. Ed. Ficai D, Grumezescu AM, ISBN 9780323461429, Elsevier. <https://www.sciencedirect.com/science/article/pii/B9780323461429000025?via%3Dihub>
14. Boboc M, Curti F, Fleacă AM, Jianu ML, Roșu AM, Curutiu C, Lazar V, **Chifiriuc MC**, Grumezescu AM. 2017. *Preparation and antimicrobial activity of inorganic nanoparticles: promising solutions to fight resistance*. Nanostructures for Antimicrobial Therapy, pp. 325-340. Ed. Ficai A, Grumezescu AM, ISBN 978-0-323-46152-8, Elsevier. <https://www.sciencedirect.com/science/article/pii/B9780323461528000147?via%3Dihub>
15. **Chifiriuc MC**, Kamerzan C, Lazar V. 2017. *Essential Oils and Nanoparticles: New Strategy to Prevent Microbial Biofilms*. Nanostructures for Antimicrobial Therapy, Pag. 279-291. Ed. Ficai A, Grumezescu AM, ISBN 978-0-323-46152-8, Elsevier. <https://www.sciencedirect.com/science/article/pii/B9780323461528000123?via%3Dihub>
16. Curutiu C, Lazar V, **Chifiriuc MC**. 2017. *Pesticides and antimicrobial resistance: from environmental compartments to animal and human infections*. New Pesticides and Soil Sensors, pp. 373 - 392. Ed. Grumezescu AM, ISBN 978-0-12-804299-1, Elsevier. <https://www.sciencedirect.com/science/article/pii/B9780128042991000114?via%3Dihub>
17. **Chifiriuc MC**, Gheorghe I, Czobor I, Florea DA, Mateescu L, Caplan ME, Caplan DM, Lazar V. 2017. *Advances in molecular biology based assays for the rapid detection of food microbial contaminants*. Food Preservation, pp. 279-291. Ed. Grumezescu AM, ISBN 978-0-12-804303-5, Elsevier. <https://www.sciencedirect.com/science/article/pii/B9780323461528000123?via%3Dihub>
18. Vlasceanu G, Grumezescu AM, Gheorghe I, **Chifiriuc MC**, Holban AM. 2017. *Quantum dots for bioimaging and therapeutic applications*. Micro and Nano Technologies, Nanostructures for Novel Therapy, pp. 279-291. Ed. Ficai D, Grumezescu AM, ISBN 9780323461429, Elsevier Nanostructures for Novel Therapy. <https://www.sciencedirect.com/science/article/pii/B9780323461429000189?via%3Dihub>
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		28/03/2008		CONȚINE ȘI UTILIZAREA ACESTORA http://online.osim.ro/cgi-bin/invsearch8	Drăghici Constantin; Căproiu Miron Teodor; Chifiriuc Mariana Carmen ; Drăcea Nicoleta Olguța
3	a 2009 00173	<u>00123055</u> eliberat 24/02/2009	C07D 313/12	DERIVAȚI DE O-ACIL-2-ETIL-11-OXIMINO-6,11-DIHDRO-DIBENZ[b,e]OXEPINĂ, COMPOZIȚIE FARMACEUTICĂ CE ÎI CUPRINDE ȘI UTILIZAREA ACESTORA http://online.osim.ro/cgi-bin/invsearch8	Limban Carmen; Missir Alexandru Vasile; Chiriță Ileana Cornelia; Căproiu Miron Teodor; Chifiriuc Mariana Carmen ; Israil Anca Michaela; Delcaru Cristina
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13	a 2016 00780	<u>00132592</u> eliberat 01/11/2016	C23C 14/08	ȚINTE DE PULVERIZARE ȘI FILME NANOSTRUCTURATE PE BAZĂ DE ARGINT-DIOXID DE TITAN CU PROPRIETĂȚI ANTIMICROBIENE, ȘI PROCEDEU DE OBȚINERE http://online.osim.ro/cgi-bin/invsearch8	Brătulescu Alexandra; Lungu Magdalena-Valentina; Lucaci Mariana; Grigore Florentina; Tsakiris Violeta; Pătroi Delia; Mitrea Sorina Adriana; Sobetkii Arcadii; Sobetkii Arcadie; Tălpeanu Dorinel; Chifiriuc Mariana-Carmen ; Radu Lăcrămioara-Elena
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15	a 2020 00678	eliberat 29.10.2020		APĂ DE GURĂ PE BAZĂ DE CLORHEXIDINĂ ȘI MgB CA INGREDIENTE ACTIVE, CU EFECT SINERGIC ÎMPOTRIVA COLONIZĂRII MICROBIENE ȘI FORMĂRII PLĂCII DENTARE	Lupșa Mădplina; Popa Marcela; Chifiriuc Mariana Carmen ; Măruțescu Luminița Gabriela; Bădică Petre; Batalu Nicolae-Dan; Grigoroșcuță Mihai Alexandru; Burdușel Mihail; Aldica Gheorghe Virgil
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Accession Number: WOS:000756307600001

Title: Gut Dysbiosis and Clostridioides difficile Infection in Neonates and Adults

Author(s): Vasilescu, IM (Vasilescu, Iulia-Magdalena); Chifiriuc, MC (Chifiriuc, Mariana-Carmen); Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); Filip, R (Filip, Roxana); Bolocan, A (Bolocan, Alexandra); Lazar, V (Lazar, Veronica); Ditu, LM (Ditu, Lia-Mara); Bleotu, C (Bleotu, Coralia)

Source: FRONTIERS IN MICROBIOLOGY **Volume:** 12 **Article**

Number: 651081 **DOI:** 10.3389/fmicb.2021.651081 **Published:** JAN 20 2022

Accession Number: WOS:000750563100001

Title: Structural Bioinformatics Used to Predict the Protein Targets of Remdesivir and Flavones in SARS-CoV-2 Infection

Author(s): Speranta, A (Speranta, Avram); Manoliu, L (Manoliu, Laura); Sogor, C (Sogor, Catalina); Mernea, M (Mernea, Maria); Seiman, CD (Seiman, Corina Duda); Seiman, DD (Seiman, Daniel Duda); Chifiriuc, C (Chifiriuc, Carmen)

Source: MEDICINAL

CHEMISTRY **Volume:** 18 **Issue:** 3 **Pages:** 382-

393 **DOI:** 10.2174/1573406417666210806154129 **Published:** 2022

Accession Number: WOS:000745043300001

Title: Demonstration of Allium sativum Extract Inhibitory Effect on Biodeteriogenic Microbial Strain Growth, Biofilm Development, and Enzymatic and Organic Acid Production

Author(s): Corbu, VM (Corbu, Viorica Maria); Gheorghe, I (Gheorghe, Irina); Marinas, IC (Marinas, Ioana Cristina); Geana, EI (Geana, Elisabeta Irina); Moza, MI (Moza, Maria Iasmina); Csutak, O (Csutak, Ortansa); Chifiriuc, MC (Chifiriuc, Mariana Carmen)

Source: MOLECULES **Volume:** 26 **Issue:** 23 **Article**

Number: 7195 **DOI:** 10.3390/molecules26237195 **Published:** DEC 2021

Accession Number: WOS:000734563400001

Title: Nitrogen and Bromide Co-Doped Hydroxyapatite Thin Films with Antimicrobial Properties

Author(s): Iconaru, SL (Iconaru, Simona Liliana); Ciobanu, CS (Ciobanu, Carmen Steluta); Predoi, D (Predoi, Daniela); Motelica-Heino, M (Motelica-Heino, Mikael); Negrila, CC (Negrila, Constantin Catalin); Badea, ML (Badea, Monica Luminita); Predoi, MV (Predoi, Mihai Valentin); Chifiriuc, CM (Chifiriuc, Carmen Mariana); Popa, M (Popa, Marcela)

Source: COATINGS **Volume:** 11 **Issue:** 12 **Article**

Number: 1505 **DOI:** 10.3390/coatings11121505 **Published:** DEC 2021

Accession Number: WOS:000735963000001

Title: Antiviral Immunity in SARS-CoV-2 Infection: From Protective to Deleterious Responses

Author(s): Mihaescu, G (Mihaescu, Grigore); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Vrancianu, CO (Vrancianu, Corneliu Ovidiu); Constantin, M (Constantin, Marian); Filip, R (Filip, Roxana); Popescu, MR (Popescu, Mihaela Roxana); Burlibasa, L (Burlibasa, Liliana); Nicoara, AC (Nicoara, Anca Cecilia); Bolocan, A (Bolocan, Alexandra); Iliescu, C (Iliescu, Ciprian); Pircalabioru, GG (Gradisteanu Pircalabioru, Gratiela)

Source: MICROORGANISMS **Volume:** 9 **Issue:** 12 **Article**

Number: 2578 **DOI:** 10.3390/microorganisms9122578 **Published:** DEC 2021

Accession Number: WOS:000735965200001

Title: chemical composition, antimicrobial and antioxidant activity of *Phytolacca americana* L. fruits and leaves extracts

Author(s): Marinas, IC (Marinas, Ioana Cristina); Oprea, E (Oprea, Eliza); Geana, EI (Geana, Elisabeta-Irina); Luntraru, CM (Luntraru, Cristina Mihaela); Gird, CE (Gird, Cerasela Elena); **Chifiriuc, MC (Chifiriuc, Mariana-Carmen)**

Source: FARMACIA **Volume:** 69 **Issue:** 5 **Pages:** 883-889 **DOI:** 10.31925/farmacia.2021.5.9 **Published:** SEP-OCT 2021

ISSN: 0014-8237
eISSN: 2065-0019

Title: Antiproliferative and antibacterial properties of biocompatible copper(II) complexes bearing chelating N,N-heterocycle ligands and potential mechanisms of action

Author(s): Olar, R (Olar, Rodica); Badea, M (Badea, Mihaela); Bacalum, M (Bacalum, Mihaela); Raileanu, M (Raileanu, Mina); Ruta, LL (Ruta, Lavinia L.); Farcasanu, IC (Farcasanu, Ileana C.); Rostas, AM (Rostas, Arpad Mihai); Vlaicu, ID (Vlaicu, Ioana Dorina); Popa, M (Popa, Marcela); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**

Source: BIOMETALS **Volume:** 34 **Issue:** 5 **Pages:** 1155-1172 **DOI:** 10.1007/s10534-021-00334-9 **Early Access**
Date: AUG 2021 **Published:** OCT 2021

ISSN: 0966-0844
eISSN: 1572-8773

Title: Modulation of Quorum Sensing and Biofilms in Less Investigated Gram-Negative ESKAPE Pathogens

Author(s): Lazar, V (Lazar, Veronica); Holban, AM (Holban, Alina Maria); Curutiu, C (Curutiu, Carmen); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**

Source: FRONTIERS IN MICROBIOLOGY **Volume:** 12 **Article**
Number: 676510 **DOI:** 10.3389/fmicb.2021.676510 **Published:** JUL 29 2021

eISSN: 1664-302X

Title: Subtypes, resistance and virulence platforms in extended-drug resistant *Acinetobacter baumannii* Romanian isolates

Author(s): Gheorghe, I (Gheorghe, Irina); Barbu, IC (Barbu, Ilda Czobor); Surleac, M (Surleac, Marius); Sarbu, I (Sarbu, Ionela); Popa, LI (Popa, Laura Ioana); Paraschiv, S (Paraschiv, Simona); Feng, Y (Feng, Yu); Lazar, V (Lazar, Veronica); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)***; Otelea, D (Otelea, Dan); Zong, ZY (Zong Zhiyong)

Source: SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article** **Number:** 13288 **DOI:** 10.1038/s41598-021-92590-5 **Published:** JUN 24 2021

ISSN: 2045-2322

Title: Chemical Composition, Antipathogenic and Cytotoxic Activity of the Essential Oil Extracted from *Amorpha fruticosa* Fruits

Author(s): Marinas, IC (Marinas, Ioana Cristina); Oprea, E (Oprea, Eliza); Buleandra, M (Buleandra, Mihaela); Badea, IA (Badea, Irinel Adriana); Tihauan, BM (Tihauan, Bianca Maria); Marutescu, L (Marutescu, Luminita); Angheloiu, M (Angheloiu, Marin); Matei, E (Matei, Elena); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**

Source: MOLECULES **Volume:** 26 **Issue:** 11 **Article** **Number:** 3146 **DOI:** 10.3390/molecules26113146 **Published:** JUN 2021

eISSN: 1420-3049

Title: Antibacterial composite coatings of MgB₂ powders embedded in PVP matrix

Author(s): Badica, P (Badica, P.); Batalu, ND (Batalu, N. D.); Burdusel, M (Burdusel, M.); Grigoroscuta, MA (Grigoroscuta, M. A.); Aldica, G (Aldica, G.); Enculescu, M (Enculescu, M.); Pircalabioru, GG (Pircalabioru, G. Gradisteanu); Popa, M (Popa, M.); Marutescu, LG (Marutescu, L. G.); Dumitriu, BG (Dumitriu, B. G.); Olariu, L (Olariu, L.); Bicu, A (Bicu, A.); Purcareanu, B (Purcareanu, B.); Operti, L (Operti, L.); Bonino, V (Bonino, V); Agostino, A (Agostino, A.); Truccato, M (Truccato, M.); **Chifiriuc, MC (Chifiriuc, M. C.)**

Source: SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article** **Number:** 9591 **DOI:** 10.1038/s41598-021-88885-2 **Published:** MAY 5 2021

ISSN: 2045-2322

Title: Preparation of Porous Hydroxyapatite Using Cetyl Trimethyl Ammonium Bromide as Surfactant for the Removal of Lead Ions from Aquatic Solutions

Author(s): Predoi, SA (Predoi, Silviu-Adrian); Ciobanu, CS (Ciobanu, Carmen Steluta); Motelica-Heino, M (Motelica-Heino, Mikael); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Badea, ML (Badea, Monica Luminita); Iconaru, SL (Iconaru, Simona Liliana)

Source: POLYMERS **Volume:** 13 **Issue:** 10 **Article** **Number:** 1617 **DOI:** 10.3390/polym13101617 **Published:** MAY 2021

eISSN: 2073-4360

Title: Present and Future Perspectives on Therapeutic Options for Carbapenemase-Producing Enterobacterales Infections

Author(s): Vrancianu, CO (Vrancianu, Corneliu Ovidiu); Dobre, EG (Dobre, Elena Georgiana); Gheorghe, I (Gheorghe, Irina); Barbu, I (Barbu, Ilda); Cristian, RE (Cristian, Roxana Elena); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**

Source: MICROORGANISMS Volume: 9 Issue: 4 Article Number: 730 DOI: 10.3390/microorganisms9040730
Published: APR 2021
eISSN: 2076-2607

Title: Dysbiosis in the Development of Type I Diabetes and Associated Complications: From Mechanisms to Targeted Gut Microbes Manipulation Therapies

Author(s): Pircalabioru, GG (Gradisteanu Pircalabioru, Gratiela); Corcionivoschi, N (Corcionivoschi, Nicolae); Gundogdu, O (Gundogdu, Ozan); **Chifiriuc, MC (Chifiriuc, Mariana-Carmen)**; Marutescu, LG (Marutescu, Luminita Gabriela); Ispas, B (Ispas, Bogdan); Savu, O (Savu, Octavian)

Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 22 Issue: 5 Article Number: 2763 DOI: 10.3390/ijms22052763 **Published:** MAR 2021
eISSN: 1422-0067

Title: Multi-Level Evaluation of UV Action upon Vitamin D Enhanced, Silver Doped Hydroxyapatite Thin Films Deposited on Titanium Substrate

Author(s): Negri, CC (Negri, Catalin Constantin); Predoi, D (Predoi, Daniela); Ghita, RV (Ghita, Rodica V.); Iconaru, SL (Iconaru, Simona Liliana); Ciobanu, SC (Ciobanu, Steluta Carmen); Manea, M (Manea, Mirela); Badea, ML (Badea, Monica Luminita); Costescu, A (Costescu, Adrian); Trusca, R (Trusca, Roxana); Predoi, G (Predoi, Gabriel); Stanciu, GA (Stanciu, George A.); Hristu, R (Hristu, Radu); Dragu, LD (Dragu, Laura Denisa); Bleotu, C (Bleotu, Coralia); Groza, A (Groza, Andreea); Marinas, IC (Marinas, Ioana Cristina); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**

Source: COATINGS Volume: 11 Issue: 2 Article Number: 120 DOI: 10.3390/coatings11020120 **Published:** FEB 2021
eISSN: 2079-6412

Title: Bacteriocins in the Era of Antibiotic Resistance: Rising to the Challenge

Author(s): Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); Popa, LI (Popa, Laura Ioana); Marutescu, L (Marutescu, Luminita); Gheorghe, I (Gheorghe, Irina); Popa, M (Popa, Marcela); Barbu, IC (Barbu, Ilda Czobor); Cristescu, R (Cristescu, Rodica); **Chifiriuc, MC (Chifiriuc, Mariana-Carmen)**

Source: PHARMACEUTICS Volume: 13 Issue: 2 Article Number: 196 DOI: 10.3390/pharmaceutics13020196 **Published:** FEB 2021
eISSN: 1999-4923

Title: Insight on Ni(II) and Cu(II) complexes of biguanide derivatives developed as effective antimicrobial and antitumour agents

Author(s): Badea, M (Badea, Mihaela); Grecu, MN (Grecu, Maria Nicoleta); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Bleotu, C (Bleotu, Coralia); Popa, M (Popa, Marcela); Iorgulescu, EE (Iorgulescu, Emilia Elena); Avram, S (Avram, Speranta); Uivarosi, V (Uivarosi, Valentina); Munteanu, AC (Munteanu, Alexandra-Cristina); Ghica, D (Ghica, Daniela); Olar, R (Olar, Rodica)

Source: APPLIED ORGANOMETALLIC CHEMISTRY Volume: 35 Issue: 4 Article Number: e6155 DOI: 10.1002/aoc.6155 **Early Access Date:** JAN 2021 **Published:** APR 2021
ISSN: 0268-2605
eISSN: 1099-0739

Title: In Vitro Evaluation of MgB₂ Powders as Novel Tools to Fight Fungal Biodeterioration of Heritage Buildings and Objects

Author(s): Gheorghe, I; Avram, I; Corbu, VM; Marutescu, L; Popa, M; Balotescu, I; Blajan, I; Mateescu, V; Zaharia, D; Dumbrava, AS; Zetu, OE; Pecete, I; Cristea, VC; Batalu, D; Grigoroscutea, MA; Burdusel, M; Aldica, GV; Badica, P; Datcu, AD; Ianovici, N; Bleotu, C; Lazar, V; Ditu, LM; **Chifiriuc, MC**

Source: FRONTIERS IN MATERIALS Volume: 7 Article Number: 601059
DOI: 10.3389/fmats.2020.601059 **Published:** JAN 13 2021
ISSN: 2296-8016

Title: Multidrug Resistant Klebsiella pneumoniae ST101 Clone Survival Chain From Inpatients to Hospital Effluent After Chlorine Treatment

Author(s): Popa, LI; Gheorghe, I; Barbu, IC; Surleac, M; Paraschiv, S; Marutescu, L; Popa, M; Pircalabioru, GG; Talapan, D; Nita, M; Streinu-Cercel, A; Streinu-Cercel, A; Otelea, D; **Chifiriuc, MC**
Source: FRONTIERS IN MICROBIOLOGY Volume: 11 Article Number: 610296
DOI: 10.3389/fmicb.2020.610296 **Published:** JAN 11 2021

ISSN: 1664-302X

Valorization of Gleditsia triacanthos Invasive Plant Cellulose Microfibers and Phenolic Compounds for Obtaining Multi-Functional Wound Dressings with Antimicrobial and Antioxidant Properties

Author(s): Marinas, IC; Oprea, E; Geana, EI; Tutunaru, O; Pircalabioru, GG; Zgura, I; **Chifiriuc, MC**

Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 22 **Issue:** 1

Article Number: 33 **DOI:** 10.3390/ijms22010033 **Published:** JAN 2021

eISSN: 1422-0067

Laser-Irradiated Chlorpromazine as a Potent Anti-Biofilm Agent for Coating of Biomedical Devices

Author(s): Nistorescu, S; Pircalabioru, GG; Udrea, AM; Simon, A; Pascu, ML; **Chifiriuc, MC**

Source: COATINGS **Volume:** 10 **Issue:** 12 **Article Number:** 1230

DOI: 10.3390/coatings10121230 **Published:** DEC 2020

eISSN: 2079-6412

Emerging Strategies to Combat beta-Lactamase Producing ESKAPE Pathogens

Author(s): Vrancianu, CO; Gheorghe, I; Dobre, EG; Barbu, IC; Cristian, RE; Popa, M; Lee, SH; Limban, C; Vlad, IM;

Chifiriuc, MC

Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 21 **Issue:** 22

Article Number: 8527 **DOI:** 10.3390/ijms21228527 **Published:** NOV 2020

eISSN: 1422-0067

Anti-biofilm Fe₃O₄@C-18-[1,3,4]thiadiazolo[3,2-a]pyrimidin-4-ium-2-thiolate Derivative Core-shell Nanocoatings

Author(s): Olar, R; Badea, M; Maxim, C; Grumezescu, AM; Bleotu, C; Marutescu, L; **Chifiriuc, MC**

Source: MATERIALS **Volume:** 13 **Issue:** 20 **Article Number:** 4640

DOI: 10.3390/ma13204640 **Published:** OCT 2020

eISSN: 1996-1944

SARS-CoV-2: From Structure to Pathology, Host Immune Response and Therapeutic Management

Author(s): Mihaescu, G; ***Chifiriuc, MC**; Iliescu, C; Vrancianu, CO; Ditu, LM; Marutescu, LG; Grigore, R;

Bertesteanu, S; Constantin, M; Pircalabioru, GG

Source: MICROORGANISMS **Volume:** 8 **Issue:** 10 **Article Number:** 1468

DOI: 10.3390/microorganisms8101468 **Published:** OCT 2020

eISSN: 2076-2607

Rapid Detection and Antibiotic Susceptibility of Uropathogenic Escherichia coli by Flow Cytometry

Author(s): Velican, AM; Marutescu, L; Kamerzan, C; Cristea, VC; Banu, O; Borcan, E; **Chifiriuc, MC**

Source: MICROORGANISMS **Volume:** 8 **Issue:** 8 **Article Number:** 1233

DOI: 10.3390/microorganisms8081233 **Published:** AUG 2020

eISSN: 2076-2607

Evolution of Inflammatory and Oxidative Stress Markers in Romanian Obese Male Patients with Type 2 Diabetes Mellitus after Laparoscopic Sleeve Gastrectomy: One Year Follow-Up

Author(s): Picu, A; Petcu, L; Stefan, DS; Pircalabioru, GG; Mitu, M; Bajko, D; Lixandru, D; Guja, C; Savu, O; Stoian,

AP; Constantin, A; Smeu, B; Copaescu, C; **Chifiriuc, MC**; Ionica, E; Ionescu-Tirgoviste, C

Source: METABOLITES **Volume:** 10 **Issue:** 8 **Article Number:** 308

DOI: 10.3390/metabo10080308 **Published:** AUG 2020

eISSN: 2218-1989

Novel hybrid materials based on heteroleptic Ru(III) complexes immobilized on SBA-15 mesoporous silica as highly potent antimicrobial and cytotoxic agents

Author(s): Marinescu, G; Culita, DC; Romanitan, C; Somacescu, S; Ene, CD; Marinescu, V; Negreanu, DG; Maxim,

C; Popa, M; Marutescu, L; Stan, M; **Chifiriuc, C**

Source: APPLIED SURFACE SCIENCE **Volume:** 520 **Article Number:** 146379

DOI: 10.1016/j.apsusc.2020.146379 **Published:** AUG 1 2020

ISSN: 0169-4332

eISSN: 1873-5584

Biocides role in the selection and dissemination of resistant Acinetobacter baumannii clones

Author(s): Vrancianu, CO; Pelcaru, CF; Alistar, A; Gheorghe, I; Marutescu, L; Popa, M; Gradisteanu, G; **Chifiriuc,**

MC

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 25 **Issue:** 4 **Pages:** 1823-1831

DOI: 10.25083/rbl/25.4/1823.1831 **Published:** JUL-AUG 2020

ISSN: 1224-5984

Antibiotic Resistance Profiles, Molecular Mechanisms and Innovative Treatment Strategies of *Acinetobacter baumannii*

Author(s): Vrancianu, CO; Gheorghe, I; Czobor, IB; **Chifiriuc, MC**

Source: MICROORGANISMS **Volume:** 8 **Issue:** 6 **Article Number:** 935

DOI: 10.3390/microorganisms8060935 **Published:** JUN 2020

eISSN: 2076-2607

Targeting Plasmids to Limit Acquisition and Transmission of Antimicrobial Resistance

Author(s): Vrancianu, CO; Popa, LI; Bleotu, C; **Chifiriuc, MC**

Source: FRONTIERS IN MICROBIOLOGY **Volume:** 11 **Article Number:** 761

DOI: 10.3389/fmicb.2020.00761 **Published:** MAY 6 2020

ISSN: 1664-302X

Nanoparticulate drug-delivery systems for fighting microbial biofilms: from bench to bedside

Author(s): Pircalabioru, GG; **Chifiriuc, MC**

Source: FUTURE MICROBIOLOGY **Volume:** 15 **Issue:** 8 **Pages:** 679-698

DOI: 10.2217/fmb-2019-0251 **Published:** MAY 2020

ISSN: 1746-0913

eISSN: 1746-0921

New Substituted Benzoylthiourea Derivatives: From Design to Antimicrobial Applications

Author(s): Limban, C; ***Chifiriuc, MC**; Caproiu, MT; Dumitrascu, F; Ferbinteanu, M; Pintilie, L; Stefaniu, A; Vlad, IM; Bleotu, C; Marutescu, LG; Nuta, DC

Source: MOLECULES **Volume:** 25 **Issue:** 7 **Article Number:** 1478

DOI: 10.3390/molecules25071478 **Published:** APR 2020

eISSN: 1420-3049

Whole genome sequencing snapshot of multi-drug resistant *Klebsiella pneumoniae* strains from hospitals and receiving wastewater treatment plants in Southern Romania

Author(s): Surleac, M; Barbu, IC; Paraschiv, S; Popa, LI; Gheorghe, I; Marutescu, L; Popa, M; Sarbu, I; Talapan, D; Nita, M; Iancu, AV; Arbune, M; Manole, A; Nicolescu, S; Sandulescu, O; Streinu-Cercel, A; Otelea, D; **Chifiriuc, MC**

Source: PLOS ONE **Volume:** 15 **Issue:** 1 **Article Number:** e0228079

DOI: 10.1371/journal.pone.0228079 **Published:** JAN 30 2020

ISSN: 1932-6203

Potential Therapeutic Approaches to Alzheimer's Disease By Bioinformatics, Cheminformatics And Predicted Adme-Tox Tools

Author(s): Avram, S; Mernea, M; Limban, C; Borcan, F; **Chifiriuc, C**

Source: CURRENT NEUROPHARMACOLOGY **Volume:** 18 **Issue:** 8 **Pages:** 696-719

DOI: 10.2174/1570159X18666191230120053 **Published:** 2020

ISSN: 1570-159X

eISSN: 1875-6190

BIOEVALUATION OF THE ANTIMICROBIAL AND ANTI-PROLIFERATIVE POTENTIAL OF SOME DERIVATIVES OF 3,5-DINITRO-4-METHOXYAMINO-BENZOIC ACID

Author(s): Zarafu, I; Patrascu, B; Marutescu, L; Bleotu, C; Limban, C; Tatibouet, A; ***Chifiriuc, MC**; Nuta, DC; Ionita, P

Source: FARMACIA **Volume:** 68 **Issue:** 1 **Pages:** 8-14

DOI: 10.31925/farmacia.2020.1.2 **Published:** JAN-FEB 2020

ISSN: 0014-8237

eISSN: 2065-0019

Thin coatings based on ZnO@C-18-usnic acid nanoparticles prepared by MAPLE inhibit the development of *Salmonella enterica* early biofilm growth

Author(s): Stan, MS; Constanda, S; Grumezescu, V; Andronescu, E; Ene, AM; Holban, AM; Vasile, BS; Mogoanta, L; Balseanu, TA; Mogosanu, GD; Socol, G; Grumezescu, AM; Dinischiotu, A; Lazar, V;

Chifiriuc, MC

Source: APPLIED SURFACE SCIENCE **Volume:** 374 **Pages:** 318-325

DOI: 10.1016/j.apsusc.2015.12.063 **Published:** JUN 30 2016

ISSN: 0169-4332

eISSN: 1873-5584

Identification of fungal strains isolated from buildings of cultural importance in Romania and antagonistic relationships amongst them

Author(s): Sirghi, AC; Gheorghe, I; Sarbu, I; Marutescu, L; Stoian, G; Zong, ZY; **Chifiriuc, MC**
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 24 **Issue:** 6 **Pages:** 1008-1014
DOI: 10.25083/rbl/24.6/1008.1014 **Published:** NOV-DEC 2019
ISSN: 1224-5984

Resistance and Virulence Features in Carbapenem-resistant Acinetobacter baumannii Community Acquired and Nosocomial Isolates in Romania

Author(s): Gheorghe, I; Cristea, VC; Marutescu, L; Popa, M; Murariu, C; Trusca, BS; Borcan, E; Ghita, MC; Lazar, V; **Chifiriuc, MC**
Source: REVISTA DE CHIMIE **Volume:** 70 **Issue:** 10 **Pages:** 3502-3507 **Published:** OCT 2019
ISSN: 0034-7752

The development of an analysis protocol based on flow cytometry for rapid detection of uropathogenic E. coli in artificially contaminated urine samples

Author(s): Velican, AM; Kameron, C; Marutescu, L; Lambert, C; **Chifiriuc, MC**
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 24 **Issue:** 4 **Pages:** 563-570
DOI: 10.25083/rbl/24.4/563.570 **Published:** JUL-AUG 2019
ISSN: 1224-5984

ANTIMICROBIAL ASSAY OF A CAPSAICIN - alpha-CYCLODEXTRIN INCLUSION COMPLEX AGAINST PLANKTONIC AND ADHERENT CELLS

Author(s): Ciulu-Costinescu, F; Podgoreanu, P; Delcaru, C; Simionescu, A; Georgescu, EF; Bostan, M; **Chifiriuc, MC**
Source: FARMACIA **Volume:** 67 **Issue:** 3 **Pages:** 496-503
DOI: 10.31925/farmacia.2019.3.18 **Published:** MAY-JUN 2019
ISSN: 0014-8237
eISSN: 2065-0019

Covalent coupling of tuberculostatic agents and graphene oxide: A promising approach for enhancing and extending their antimicrobial applications

Author(s): Tudos, M; Anghel, EM; Culita, DC; Somacescu, S; Calderon-Moreno, J; Tecuceanu, V; Dumitrascu, FD; Dracea, O; Popa, M; Marutescu, L; Bleotu, C; Curutiu, C; **Chifiriuc, MC**
Source: APPLIED SURFACE SCIENCE **Volume:** 471 **Pages:** 553-565
DOI: 10.1016/j.apsusc.2018.11.242 **Published:** MAR 31 2019
ISSN: 0169-4332
eISSN: 1873-5584

Gut Microbiota, Host Organism, and Diet Trialogue in Diabetes and Obesity

Author(s): Lazar, V; Ditu, LM; Pircalabioru, GG; Picu, A; Petcu, L; Cucu, N; **Chifiriuc, MC**
Source: FRONTIERS IN NUTRITION **Volume:** 6 **Article Number:** 21
DOI: 10.3389/fnut.2019.00021 **Published:** MAR 13 2019
ISSN: 2296-861X

Influence of age on sperm parameters in men with suspected infertility

Author(s): Silea, C; Cucu, IA; Zarnescu, O; Stoian, AP; Motofei, IG; Bratu, OG; Pircalabioru, GG; **Chifiriuc, MC**
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 24 **Issue:** 1 **Pages:** 82-90
DOI: 10.25083/rbl/24.1/82.90 **Published:** JAN-FEB 2019
ISSN: 1224-5984

Phenotypic and genotypic evaluation of adherence and biofilm development in Candida albicans respiratory tract isolates from hospitalized patients

Author(s): Sadik, O; Ditu, LM; Gheorghe, I; Holban, AM; Curutiu, C; Parcalabioru, GG; Avram, I; Banu, O; Al-mandawy, O; Alkurjia, DA; **Chifiriuc, MC**
Source: REVISTA ROMANA DE MEDICINA DE LABORATOR **Volume:** 27 **Issue:** 1 **Pages:** 73-83
DOI: 10.2478/rrlm-2019-0007 **Published:** JAN 2019
ISSN: 1841-6624
eISSN: 2284-5623

Functional properties improvement of Ag-ZnO thin films using Inconel 600 interlayer produced by electron beam evaporation technique

Author(s): Lungu, MV; Sobetkii, A; Sobetkii, AA; Patroi, D; Prioteasa, P; Ion, I; Negriila, CC; **Chifiriuc, MC**

Source: THIN SOLID FILMS **Volume:** 667 **Pages:** 76-87
DOI: 10.1016/j.tsf.2018.09.055 **Published:** DEC 1 2018
ISSN: 0040-6090

Resistance and Virulence Patterns in Gram Negative and Gram Positives Rods Isolated from the Hospital Environment in Bucharest, Romania

Author(s): Mitache, MM; Banu, O; Borcan, E; Gheorghe, I; Marutescu, L; Popa, M; Predescu, M; Rusu, E; Nemes, R; **Chifiriuc, MC**

Source: REVISTA DE CHIMIE **Volume:** 69 **Issue:** 11 **Pages:** 4026-4032 **Published:** NOV 2018
ISSN: 0034-7752

Synthesis and Characterization of Chitosan-Coated Cobalt Ferrite Nanoparticles and Their Antimicrobial Activity

Author(s): Gingasu, D; Mindru, I; Patron, L; Ianculescu, A; Vasile, E; Marinescu, G; Preda, S (Preda, Silviu); Diamandescu, L; Oprea, O; Popa, M; Saviuc, C; **Chifiriuc, MC**

Source: JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 28 **Issue:** 5 **Pages:** 1932-1941 **DOI:** 10.1007/s10904-018-0870-3

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Antagonistic activities of some Bifidobacterium sp strains isolated from resident infant gastrointestinal microbiota on Gram-negative enteric pathogens

Author(s): Delcaru, C; Alexandru, I; Podgoreanu, P; Cristea, VC; Bleotu, C; **Chifiriuc, MC**; Bezirtzoglou, E; Lazar, V

Source: ANAEROBE **Volume:** 39 **Pages:** 39-44

DOI: 10.1016/j.anaerobe.2016.02.010 **Published:** JUN 2016

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Antifungal bionanocomposites based on poly(lactic acid) and silver nanoparticles for potential medical devices

Author(s): Stoica, P; Rapa, M; ***Chifiriuc, MC**; Lungu, M; Tatia, R; Nita, MI; Grumezescu, AM; Bertesteanu, S; Bezirtzoglou, E; Lazar, V

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 20 **Issue:** 4

Pages: 10696-10707 **Published:** JUL-AUG 2015

ISSN: 1224-5984

Aspects of Gut Microbiota and Immune System Interactions in Infectious Diseases, Immunopathology, and Cancer

Author(s): Lazar, V; Ditu, LM; Pircalabioru, GG; Gheorghe, I; Curutiu, C; Holban, AM; Picu, A; Petcu, L; **Chifiriuc, MC**

Source: FRONTIERS IN IMMUNOLOGY **Volume:** 9 **Article Number:** 1830

DOI: 10.3389/fimmu.2018.01830 **Published:** AUG 15 2018

ISSN: 1664-3224

Phenotypic, Biochemical and Genotypic Characterisation of Some Factors Involved in the Virulence and Survival of Bacteria Isolated from Food and Food Processing Surfaces

Author(s): Mitache, MM; Curutiu, C; Gheorghe, I; Lazar, V; Bucur, M; Bleotu, C; Cochior, D; Rusu, E; **Chifiriuc, CM**

Source: REVISTA DE CHIMIE **Volume:** 69 **Issue:** 1 **Pages:** 116-120 **Published:** JAN 2018

Accession Number: WOS:000425369600023

ISSN: 0034-7752

Novel Hybrid Formulations Based on Thiourea Derivatives and Core@Shell Fe₃O₄@C-18 Nanostructures for the Development of Antifungal Strategies

Author(s): Limban, C; Missir, AV; Capriou, MT; Grumezescu, AM; ***Chifiriuc, MC**; Bleotu, C; Marutescu, L; Papacocea, MT; Nuta, DC

Source: NANOMATERIALS **Volume:** 8 **Issue:** 1 **Article Number:** 47 **DOI:** 10.3390/nano8010047

Published: JAN 2018

ISSN: 2079-4991

Adherence and Biofilm Formation in Candida albicans Strains Isolated from Different Infection Sites in Hospitalized Patients

Author(s): Sadik, O; Ditu, LM; Gheorghe, I; Pircalabioru, GG; Bleotu, C; Banu, O; Merezeanu, N; Lupu, AC; Lazar,

V; **Chifiriuc, MC**

Source: REVISTA DE CHIMIE **Volume:** 68 **Issue:** 12 **Pages:** 2832-2835 **Published:** DEC 2017
ISSN: 0034-7752

ANTIMICROBIAL ACTIVITY OF SOME NEW Ru(III) COMPLEXES WITH QUINOLONE DERIVATIVES

Author(s): Uivarosi, V; Olar, R; Badea, M; **Chifiriuc, MC**

Source: FARMACIA **Volume:** 65 **Issue:** 6 **Pages:** 972-977 **Published:** NOV-DEC 2017

ISSN: 0014-8237

eISSN: 2065-0019

Assessment of the anti-biofilm activity and biocompatibility of novel PE and PVC polymers

Author(s): Telcian, A; Hussien, MD; ***Chifiriuc, MC**; Bleotu, C; Holban, AM; Curutiu, C; Grosu, E; Fikai, A; Mihaescu, G; Grigore, R; Ditu, LM

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 5 **Pages:** 12997-13004 **Published:** SEP-OCT 2017

ISSN: 1224-5984

Biochemical, Virulence and Resistance Features in Bacterial Strains Recovered from Hospital Surfaces after Decontamination with Quaternary Ammonium Compounds, Triclosan and Iodine Desinfectants

Author(s): Mitache, MM; Gheorghe, I; Totea, G; Bleotu, C; Curutiu, C; Cochior, D; Rusu, E; **Chifiriuc, MC**

Source: REVISTA DE CHIMIE **Volume:** 68 **Issue:** 5 **Pages:** 997-1001 **Published:** MAY 2017

ISSN: 0034-7752

Markers of Oxidative Stress and Antioxidant Defense in Romanian Patients with Type 2 Diabetes Mellitus and Obesity

Author(s): Picu, A; Petcu, L; Stefan, S; Mitu, M; Lixandru, D; Ionescu-Tirgoviste, C; Pircalabioru, GG; Ciulu-Costinescu, F; Bubulica, MV; **Chifiriuc, MC**

Source: MOLECULES **Volume:** 22 **Issue:** 5 **Article Number:** 714

DOI: 10.3390/molecules22050714 **Published:** MAY 2017

ISSN: 1420-3049

.Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry (MALDI-TOF MS) reveals the anaerobic *Slakia exigua* as unique etiology of a dental abscess

Author(s): Pricop, R; Cristea, VC; Gheorghe, I ; Tatu, AL; Mihaescu, G; **Chifiriuc, MC**

Source: BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY **Volume:** 7 **Issue:** 2

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ISSN: 2069-5837

Urinary Tract Infections in Patients with Type 1 and Type 2 Diabetes: Etiology, Resistance to Antibacterial Chemicals and Virulence Features

Author(s): Mitache, MM; Curutiu, C; Rusu, E; Bahna, R; Ditu, M; Moldovan, H; Hancu, V; **Chifiriuc, MC**

Source: REVISTA DE CHIMIE **Volume:** 68 **Issue:** 3 **Pages:** 566-569 **Published:** MAR 2017

ISSN: 0034-7752

Soft chemistry routes for the preparation of Ag-CoFe₂O₄ nanocomposites

Author(s): Gingasu, D; Mindru, I; Patron, L; Marinescu, G; Preda, S; Calderon-Moreno, JM; Osiceanu, P; Somacescu, S; Stanica, N; Popa, M; Saviuc, C; **Chifiriuc, MC**

Source: CERAMICS INTERNATIONAL **Volume:** 43 **Issue:** 3 **Pages:** 3284-3291

DOI: 10.1016/j.ceramint.2016.11.161 **Published:** FEB 15 2017

ISSN: 0272-8842

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Bioactive Wound Dressings for the Management of Chronic Wounds

Author(s): Georgescu, M; ***Chifiriuc, MC**; Marutescu, L; Gheorghe, I; Lazar, V; Bolocan, A; Bertesteanu, S

Source: CURRENT ORGANIC CHEMISTRY **Volume:** 21 **Issue:** 1 **Pages:** 53-63

DOI: 10.2174/1385272820666160510171040 **Published:** 2017

ISSN: 1385-2728

eISSN: 1875-5348

Development and Sequential Analysis of a New Multi-Agent, Anti-Acne Formulation Based on Plant-Derived Antimicrobial and Anti-Inflammatory Compounds

Author(s): Saviuc, C; Ciubuca, B; Dinca, G; Bleotu, C; Drumea, V; ***Chifiriuc, MC**; Popa, M; Pircalabioru, GG; Marutescu, L; Lazar, V

Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 18 **Issue:** 1 **Article**

Number: 175 **DOI:** 10.3390/ijms18010175 **Published:** JAN 2017
ISSN: 1422-0067

Molecular characterization of virulence and resistance features in Staphylococcus aureus clinical strains isolated from cutaneous lesions in patients with drug adverse reactions

Author(s): Gheorghe, I; Tatu, AL; Lupu, I; Thamer, O; Cotar, AI; Pircalabioru, GG; Popa, M; Cristea, VC; Lazar, V; **Chifiriuc, MC**

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 1 **Pages:** 12321-12327

Published: JAN-FEB 2017

ISSN: 1224-5984

Phenotypic and Genetic Evaluation of the Influence of Pseudomonas aeruginosa Culture Fractions on the Human Mesenchymal Stem Cells Viability, Apoptotic Pathways and Cytokine Profile

Author(s): Holban, AM; Bleotu, C; ***Chifiriuc, MC**; Lazar, V

Source: CURRENT STEM CELL RESEARCH & THERAPY **Volume:** 12 **Issue:** 2 **Pages:** 175-180

DOI: 10.2174/1574888X10666151026114817 **Published:** 2017

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eISSN: 2212-3946

Microbial Biofilms in Urinary Tract Infections and Prostatitis: Etiology, Pathogenicity, and Combating strategies

Author(s): Delcaru, C; Alexandru, I; Podgoreanu, P; Grosu, M; Stavropoulos, E; ***Chifiriuc, MC**; Lazar, V

Source: PATHOGENS **Volume:** 5 **Issue:** 4 **Article Number:** 65 **DOI:** 10.3390/pathogens5040065 **Published:** DEC 2016

ISSN: 2076-0817

SYNTHESIS, CHARACTERIZATION AND EVALUATION OF THE ANTIMICROBIAL AND CYTOTOXIC ACTIVITY OF TWO NOVEL COMPLEXES OF Gd(III) WITH PIROXICAM AND MELOXICAM

Author(s): Marinescu, G; Culita, DC; Patron, L; Stanica, N; Nita, S; Musuc, AM; Bleotu, C; Popa, M; Kamerzan, C; **Chifiriuc, MC**

Source: REVUE ROUMAINE DE CHIMIE **Volume:** 61 **Issue:** 10 **Pages:** 779-786

Published: OCT 2016

ISSN: 0035-3930

Investigation of optical, structural, morphological and antimicrobial properties of carboxymethyl cellulose capped Ag-ZnO nanocomposites prepared by chemical and mechanical methods

Author(s): Lungu, MV; Vasile, E; Lucaci, M; Patroi, D; Mihailescu, N; Grigore, F; Marinescu, V; Bratulescu, A; Mitrea, S; Sobetskii, A; Sobetskii, AA; Popa, M; **Chifiriuc, MC**

Source: MATERIALS CHARACTERIZATION **Volume:** 120 **Pages:** 69-81

DOI: 10.1016/j.matchar.2016.08.022 **Published:** OCT 2016

ISSN: 1044-5803

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Synthesis of nanocrystalline cobalt ferrite through soft chemistry methods: A green chemistry approach using sesame seed extract

Author(s): Gingasu, D; Mindru, I; Mocioiu, OC; Preda, S; Stanica, N; Patron, L; Ianculescu, A; Oprea, O; Nita, S; Paraschiv, I; Popa, M; Saviuc, C; Bleotu, C; **Chifiriuc, MC**

Source: MATERIALS CHEMISTRY AND PHYSICS **Volume:** 182 **Pages:** 219-230

DOI: 10.1016/j.matchemphys.2016.07.026 **Published:** OCT 1 2016

ISSN: 0254-0584

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Molecular characterization of resistance and virulence features in Staphylococcus aureus clinical strains isolated from cutaneous lesions in patients with drug adverse reactions

Author(s): Lupu, I; Gheorghe, I; Popa, M; Ion, A; Mihai, M; Lazar, V; **Chifiriuc, MC**

Source: FEBS JOURNAL Meeting Abstract: P04011-010 **Volume:** 283 **Special Issue:** SI

Pages: 148-148 **Supplement:** 1 **Published:** SEP 2016

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Multifunctional Silver Nanoparticles-Decorated Silica Functionalized with Retinoic Acid with Anti-Proliferative and Antimicrobial Properties

Author(s): Tudose, M; Culita, DC; Musuc, AM; Marinescu, G; Somacescu, S; Munteanu, C; Bleotu, C; **Chifiriuc, MC**

Source: JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND

MATERIALS Volume: 26 Issue: 5 Pages: 1043-1052 DOI: 10.1007/s10904-016-0407-6
Published: SEP 2016
ISSN: 1574-1443
eISSN: 1574-1451

Preparation and characterization of undoped and cobalt doped ZnO for antimicrobial use
Author(s): Stoica, AO; Andronescu, E; Ghitulica, CD; Voicu, G; Grumezescu, AM; Popa, M; **Chifiriuc, MC**
Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS Volume: 510 Issue: 2
Pages: 430-438 DOI: 10.1016/j.ijpharm.2015.09.043 **Published:** AUG 30 2016
ISSN: 0378-5173
eISSN: 1873-3476

Rosmarinus Officinalis Essential Oil and Eucalyptol Act as Efflux Pumps Inhibitors and Increase Ciprofloxacin Efficiency against Pseudomonas Aeruginosa and Acinetobacter Baumannii MDR Strains
Author(s): Saviuc, C; Gheorghe, I; Coban, S; Drumea, V; ***Chifiriuc, MC**; Banu, O; Bezirtzoglou, E; Lazar, V
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS Volume: 21 Issue: 4
Pages: 11782-11790 **Published:** JUL-AUG 2016
ISSN: 1224-5984

Mesoporous silica coatings for cephalosporin active release at the bone-implant interface
Author(s): Radulescu, D; Voicu, G; Oprea, AE; Andronescu, E; Grumezescu, V; Holban, AM; Vasile, BS; Surdu, AV; Grumezescu, AM; Socol, G; Mogoanta, L; Mogosanu, GD; Balaure, PC; Radulescu, R; **Chifiriuc, MC**
Source: APPLIED SURFACE SCIENCE Volume: 374 Pages: 165-171
DOI: 10.1016/j.apsusc.2015.10.183 **Published:** JUN 30 2016
ISSN: 0169-4332
eISSN: 1873-5584

Fabrication, Characterization, and Evaluation of Bionanocomposites Based on Natural Polymers and Antibiotics for Wound Healing Applications
Author(s): Radulescu, M; Holban, AM; Mogoanta, L; Balseanu, TA; Mogosanu, GD; Savu, D; Popescu, RC; Fufa, O; Grumezescu, AM; Bezirtzoglou, E; Lazar, V; **Chifiriuc, MC**
Source: MOLECULES Volume: 21 Issue: 6 Article Number: 761
DOI: 10.3390/molecules21060761 **Published:** JUN 2016
ISSN: 1420-3049

Antimicrobial Nanostructured Bioactive Coating Based on Fe₃O₄ and Patchouli Oil for Wound Dressing
Author(s): Radulescu, M; Andronescu, E; Holban, AM; Vasile, BS; Iordache, F; Mogoanta, L; Mogosanu, GD; Grumezescu, AM; Georgescu, M; **Chifiriuc, MC**
Source: METALS Volume: 6 Issue: 5 Article Number: 103
DOI: 10.3390/met6050103 **Published:** MAY 2016
eISSN: 2075-4701

Drosophotoxicology: An Emerging Research Area for Assessing Nanoparticles Interaction with Living Organisms
Author(s): **Chifiriuc, MC**; Ratiu, AC; Popa, M; Ecovoiu, AA
Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 17 Issue: 2
Article Number: 36 DOI: 10.3390/ijms17020036 **Published:** FEB 2016
eISSN: 1422-0067

Microbial Resistance to Natural Compounds: Challenges for Developing Novel Alternatives to Antibiotics
Author(s): Ciubuca, BM; Saviuc, CM; ***Chifiriuc, MC**; Lazar, V
Source: CURRENT ORGANIC CHEMISTRY Volume: 20 Issue: 28 Pages: 2983-2988
DOI: 10.2174/1385272820666160510165625 **Published:** 2016
ISSN: 1385-2728
eISSN: 1875-5348

Virulence and resistance features of Pseudomonas aeruginosa strains isolated from chronic leg ulcers
Author(s): Georgescu, M; Gheorghe, I; Curutiu, C; Lazar, V; Bleotu, C; **Chifiriuc, MC**
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DOI: 10.1186/s12879-016-1396-3 **Supplement:** 1 **Published:** 2016
eISSN: 1471-2334

Periodontitis and Periodontal Disease - Innovative Strategies for Reversing the Chronic Infectious and Inflammatory Condition by Natural Products

Author(s): Lazar, V; Saviuc, CM; **Chifiriuc, MC**
Source: CURRENT PHARMACEUTICAL DESIGN **Volume:** 22 **Issue:** 2 **Pages:** 230-237
DOI: 10.2174/138161282202151221124307 **Published:** 2016
ISSN: 1381-6128
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Anti-Pathogenic Effect of Propolis Extracts from Different Romanian Regions on Staphylococcus Sp Clinical Strains

Author(s): Stan, T; Marutescu, L; ***Chifiriuc, MC**; Lazar, V
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 21 **Issue:** 1
Pages: 11166-11175 **Published:** JAN-FEB 2016
ISSN: 1224-5984

Green Synthesis Methods of CoFe₂O₄ and Ag-CoFe₂O₄ Nanoparticles Using Hibiscus Extracts and Their Antimicrobial Potential

Author(s): Gingasu, D; Mindru, I; Patron, L; Calderon-Moreno, JM; Mocioiu, OC; Preda, S; Stanica, N; Nita, S; Dobre, N; Popa, M; Gradisteanu, G; **Chifiriuc, MC**
Source: JOURNAL OF NANOMATERIALS **Volume:** 2016 **Article Number:** 2106756
DOI: 10.1155/2016/2106756 **Published:** 2016
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Molecular analysis of antibiotic resistance and virulence features of Staphylococcus sp. strains isolated from patients with chronic leg ulcers

Author(s): Georgescu, M; Gheorghe, I; Ghiatau, CF; Dascalu, L; **Chifiriuc, CM**
Source: JOURNAL OF INVESTIGATIVE DERMATOLOGY **Meeting Abstract:** 368
Volume: 135 **Pages:** S63-S63 **Supplement:** 2 **Published:** SEP 2015
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Antibacterial Activity Evaluation of Silver Nanoparticles Entrapped in Silica Matrix Functionalized with Antibiotics

Author(s): Tudose, M; Culita, DC; Munteanu, C; Pandele, J; Hristea, E; Ionita, P; Zarafu, I; **Chifiriuc, MC**
Source: JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 25 **Issue:** 4 **Pages:** 869-878
DOI: 10.1007/s10904-015-0176-7 **Published:** JUL 2015
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eISSN: 1574-1451

MAPLE fabrication of thin films based on kanamycin functionalized magnetite nanoparticles with anti-pathogenic properties

Author(s): Grumezescu, V; Andronescu, E; Holban, AM; Mogoanta, L; Mogosanu, GD; Grumezescu, AM ; Stanculescu, A; Socol, G; Iordache, F; Maniu, H; **Chifiriuc, MC**
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DOI: 10.1016/j.apsusc.2014.10.177 **Published:** MAY 1 2015
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Fabrication, characterization and bioevaluation of novel antimicrobial composites based on polycaprolactone, chitosan and essential oils

Author(s): Stoica, P; ***Chifiriuc, MC**; Rapa, M; Bleotu, C; Lungu, L; Vlad, G; Grigore, R; Bertesteanu, S; Stavropoulou, E; Lazar, V
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 20 **Issue:** 3
Pages: 10521-10535 **Published:** MAY-JUN 2015
ISSN: 1224-5984

SYNTHESIS AND BIOEVALUATION OF MAGNETIC PARTICLES BASED ON CHITOSAN AND PHYTOCOMPONENTS FROM Eugenia carryophyllata AQUEOUS EXTRACT

Author(s): Anghel, I; Grumezescu, AM; Anghel, AG; Saviuc, C; Croitoru, C; Mihaiescu, DE; **Chifiriuc, CM**
Source: ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL
Volume: 14 **Issue:** 4 **Pages:** 855-861
DOI: 10.30638/eemj.2015.096 **Published:** APR 2015
ISSN: 1582-9596
eISSN: 1843-3707

Silver nanoparticles embedded into silica functionalized with vitamins as biological active materials

Author(s): Tudose, M; Culita, DC; Ionita, P; **Chifiriuc, MC**

Source: CERAMICS INTERNATIONAL

Volume 41, **Issue** 3, Part B, **Pages** 4460-4467

Published: APR 2015 **DOI.org/10.1016/j.ceramint.2014.11.138**

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Microbial Biofilms: Impact on the Pathogenesis of Periodontitis, Cystic Fibrosis, Chronic Wounds and Medical Device-Related Infections

Author(s): Mihai, MM; Holban, AM; Giurcaneanu, C; Popa, LG; Oanea, RM; Lazar, V; **Chifiriuc, MC**; Popa, M; Popa, MI

Source: CURRENT TOPICS IN MEDICINAL CHEMISTRY **Volume:** 15 **Issue:** 16

Pages: 1552-1576 **Published:** 2015

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eISSN: 1873-5294

Metallic-Based Micro and Nanostructures with Antimicrobial Activity

Author(s): Pop, CS; Hussien, MD; Popa, M; Mares, A; Grumezescu, AM; Grigore, R; Lazar, V; ***Chifiriuc, MC**; Sakizlian, M; Bezirtzoglou, E; Bertesteanu, S

Source: CURRENT TOPICS IN MEDICINAL CHEMISTRY **Volume:** 15 **Issue:** 16

Pages: 1577-1582 **Published:** 2015

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eISSN: 1873-5294

Recognition and Impact of Host-derived Molecules on Bacterial Cell-to-cell Signalling Pathways

Author(s): Holban, AM; ***Chifiriuc, MC**; Lazar, V

Source: MEDICINAL CHEMISTRY **Volume:** 11 **Issue:** 7 **Pages:** 610-617

DOI: 10.2174/1573406411666150305113146 **Published:** 2015

ISSN: 1573-4064

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SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL ACTIVITY OF CU(II), NI(II), CO(II) AND MN(II) BINUCLEAR COMPLEXES DERIVED FROM 1,3-BIS(2'-FORMYLPHENYL)-1,3-DIOXAPROPANE AND L-TRYPTOPHAN

Author(s): Ciolan, F; Patron, L; Marutescu, L; **Chifiriuc, MC**

Source: FARMACIA **Volume:** 63 **Issue:** 1 **Pages:** 86-92 **Published:** JAN-FEB 2015

ISSN: 0014-8237

eISSN: 2065-0019

Significance of serum antibodies against HSP 60 and HSP 70 for the diagnostic of infectious diseases (vol 5, pg 828, 2014)

Author(s): Bleotu, C; ***Chifiriuc, MC**; Pircalabioru, G ; Bertesteanu, SG; Grigore, R ; Ruta, SM; Banu, O; Lazar, V

Source: VIRULENCE **Volume:** 6 **Issue:** 1 **Pages:** 101-101

DOI: 10.1080/21505594.2015.1012469 **Published:** JAN 2015

ISSN: 2150-5594

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Nanostructured Bioactive Polymers Used in Food-Packaging

Author(s): Mateescu, AL; Dimov, TV; Grumezescu, AM; Gestal, MC; **Chifiriuc, MC**

Source: CURRENT PHARMACEUTICAL BIOTECHNOLOGY **Volume:** 16 **Issue:** 2

Pages: 121-127 **DOI:** 10.2174/1389201015666141202110919 **Published:** 2015

ISSN: 1389-2010

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Essential Oils with Microbicidal and Antibiofilm Activity

Author(s): Saviuc, CM; Drumea, V; Olariu, L; ***Chifiriuc, MC**; Bezirtzoglou, E; Lazar, V

Source: CURRENT PHARMACEUTICAL BIOTECHNOLOGY **Volume:** 16 **Issue:** 2

Pages: 137-151 **DOI:** 10.2174/138920101602150112151549 **Published:** 2015

ISSN: 1389-2010

eISSN: 1873-4316

Nanobioactive Structures for Drug Targeting and Delivery

Author(s): **Chifiriuc, CM** ; Grumezescu, AM
Source: CURRENT TOPICS IN MEDICINAL CHEMISTRY **Volume:** 15 **Issue:** 15
Pages: 1423-1423 **DOI:** 10.2174/1568026615666150414112350 **Published:** 2015
ISSN: 1568-0266
eISSN: 1873-4294

Micro and Nanoscale Materials for Boosting the Antimicrobial Fight

Author(s): **Chifiriuc, CM**; Grumezescu, AM
Source: CURRENT TOPICS IN MEDICINAL CHEMISTRY **Volume:** 15 **Issue:** 16
Pages: 1551-1551 **DOI:** 10.2174/1568026615666150414112925 **Published:** 2015
ISSN: 1568-0266
eISSN: 1873-4294

Insights on Metal Based Dental Implants and their Interaction with the Surrounding Tissues

Author(s): Popa, M; Hussien, MD; Cirstea, A; Grigore, R; Lazar, V; Bezirtzoglou, E; ***Chifiriuc, MC**; Sakizlian, M; Stavropoulou, E; Bertesteanu, S
Source: CURRENT TOPICS IN MEDICINAL CHEMISTRY **Volume:** 15 **Issue:** 16
Pages: 1614-1621 **Published:** 2015
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eISSN: 1873-5294

Efficiency of Vanilla, Patchouli and Ylang Ylang Essential Oils Stabilized by Iron Oxide@C-14 Nanostructures against Bacterial Adherence and Biofilms Formed by Staphylococcus aureus and Klebsiella pneumoniae Clinical Strains

Author(s): Bilcu, M; Grumezescu, AM; Oprea, AE; Popescu, RC; Mogosanu, GD; Hristu, R; Stanciu, GA; Mihailescu, DF; Lazar, V; Bezirtzoglou, E; **Chifiriuc, MC**
Source: MOLECULES **Volume:** 19 **Issue:** 11 **Pages:** 17943-17956
DOI: 10.3390/molecules191117943 **Published:** NOV 2014
ISSN: 1420-3049

ESBL genes in Multi Drug Resistant Gram negative strains isolated in a one year survey from an Intensive Care Unit in Bucharest, Romania

Author(s): Czobor, I; Gheorghe, I; Banu, O; Velican, A; Lazar, V; Mihaescu, G; **Chifiriuc, MC**
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 19 **Issue:** 4 **Pages:** 9553-9560
Published: JUL-AUG 2014
ISSN: 1224-5984

Antibiotic resistance of food-borne enterobacterial strains isolated in Bucharest, Romania

Author(s): Mateescu, AL; Mitache, MM; ***Chifiriuc, MC**; Dimov, TV
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 19 **Issue:** 3 **Pages:** 9409-9420
Published: JUN-JUL 2014
ISSN: 1224-5984

Functionalized antibiofilm thin coatings based on PLA-PVA microspheres loaded with usnic acid natural compounds fabricated by MAPLE

Author(s): Grumezescu, V; Socol, G; Grumezescu, AM; Holban, AM; Fikai, A; Trusca, R; Bleotu, C; Balaure, PC; Cristescu, R; **Chifiriuc, MC**
Source: APPLIED SURFACE SCIENCE **Volume:** 302 **Pages:** 262-267
DOI: 10.1016/j.apsusc.2013.09.081 **Published:** MAY 30 2014
ISSN: 0169-4332
eISSN: 1873-5584

Keratin-Based Biomaterials for Biomedical Applications

Author(s): Mogosanu, GD; Grumezescu, AM; **Chifiriuc, MC**
Source: CURRENT DRUG TARGETS **Volume:** 15 **Issue:** 5 **Pages:** 518-530
DOI: 10.2174/1389450115666140307154143 **Published:** MAY 2014
ISSN: 1389-4501
eISSN: 1873-5592

Polymicrobial wound infections: Pathophysiology and current therapeutic approaches

Author(s): Bertesteanu, S; Triaridis, S; Stankovic, M; Lazar, V; ***Chifiriuc, MC**; Vlad, M; Grigore, R
Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 463 **Issue:** 2
Pages: 119-126 **DOI:** 10.1016/j.ijpharm.2013.12.012 **Published:** MAR 25 2014
ISSN: 0378-5173

eISSN: 1873-3476

New silica nanostructure for the improved delivery of topical antibiotics used in the treatment of staphylococcal cutaneous infections

Author(s): Grumezescu, AM; Ghitulica, CD; Voicu, G; Huang, KS; Yang, CH; Fikai, A; Vasile, BS; Grumezescu, V; Bleotu, C; **Chifiriuc, MC**

Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 463 **Issue:** 2

Pages: 170-176 **DOI:** 10.1016/j.ijpharm.2013.07.016 **Published:** MAR 25 2014

ISSN: 0378-5173

eISSN: 1873-3476

Role of Pseudomonas aeruginosa quorum sensing (QS) molecules on the viability and cytokine profile of human mesenchymal stem cells

Author(s): Holban, AM; Bleotu, C; ***Chifiriuc, MC**; Bezirtzoglou, E; Lazar, V

Source: VIRULENCE **Volume:** 5 **Issue:** 2 **Pages:** 303-310 **DOI:** 10.4161/viru.27571

Published: FEB 15 2014

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eISSN: 2150-5608

Contribution of Antimicrobial Peptides to the Development of New and Efficient Antimicrobial Strategies

Author(s): **Chifiriuc, MC**; Grumezescu, AM; Lazar, V; Bolocan, A; Triaridis, S; Grigore, R; Bertesteanu, S

ISSN: 1570-1646

eISSN: 1875-6247

Extended-spectrum Beta-lactamase Production in Pseudomonas aeruginosa and Acinetobacter baumannii Strains: Epidemiology, Molecular Characterization and Novel Proteomics-based Diagnostic Tools

Author(s): Gheorghe, I; ***Chifiriuc, MC**; Cotar, AI; Lazar, V

Source: CURRENT PROTEOMICS **Volume:** 11 **Issue:** 2 **Pages:** 108-115

DOI: 10.2174/157016461102140917122103 **Published:** 2014

ISSN: 1570-1646

eISSN: 1875-6247

Class I and II Bacteriocins: Structure, Biosynthesis and Drug Delivery Systems for the Improvement of their Antimicrobial Activity

Author(s): Ditu, LM; ***Chifiriuc, MC**; Pelinescu, D; Avram, I; Pircalabioru, G; Mihaescu, G

Source: CURRENT PROTEOMICS **Volume:** 11 **Issue:** 2 **Pages:** 121-127

DOI: 10.2174/157016461102140917122421 **Published:** 2014

ISSN: 1570-1646

eISSN: 1875-6247

Quorum Sensing Inhibitors from the Sea: Lessons from Marine Symbiotic Relationships

Author(s): **Chifiriuc, MC**; Grumezescu, AM; Lazar, V

Source: CURRENT ORGANIC CHEMISTRY **Volume:** 18 **Issue:** 7 **Pages:** 823-839

DOI: 10.2174/138527281807140515150356 **Published:** 2014

ISSN: 1385-2728

eISSN: 1875-5348

Carboxymethyl-cellulose/Fe₃O₄ nanostructures for antimicrobial substances delivery

Author(s): Vlad, M; Andronesu, E; Grumezescu, AM; Fikai, A; Voicu, G; Bleotu, C; **Chifiriuc, MC**

Source: BIO-MEDICAL MATERIALS AND ENGINEERING **Volume:** 24 **Issue:** 3

Pages: 1639-1646 **DOI:** 10.3233/BME-140967 **Published:** 2014

ISSN: 0959-2989

eISSN: 1878-3619

Biomedical Applications of Natural Polymers for Drug Delivery

Author(s): **Chifiriuc, MC**; Grumezescu, AM; Grumezescu, V; Bezirtzoglou, E; Lazar, V; Bolocan, A

Source: CURRENT ORGANIC CHEMISTRY **Volume:** 18 **Issue:** 2 **Pages:** 152-164

DOI: 10.2174/138527281802140129104525 **Published:** JAN 2014

ISSN: 1385-2728

eISSN: 1875-5348

Prevention of Microbial Biofilms - The Contribution of Micro and Nanostructured Materials

Author(s): Grumezescu, AM; **Chifiriuc, CM**

Source: CURRENT MEDICINAL CHEMISTRY **Volume:** 21 **Issue:** 29 **Pages:** 3311-3311
DOI: 10.2174/0929867321666140304101314 **Published:** 2014
ISSN: 0929-8673
eISSN: 1875-533X

Biomedical Applications of Synthetic, Biodegradable Polymers for the Development of Anti-Infective Strategies
Author(s): Bertesteanu, S;* **Chifiriuc, MC**; Grumezescu, AM; Printza, AG; Marie-Paule, T; Grumezescu, V; Mihaela, V; Lazar, V; Grigore, R

Source: CURRENT MEDICINAL CHEMISTRY **Volume:** 21 **Issue:** 29 **Pages:** 3383-3390
DOI: 10.2174/0929867321666140304104328 **Published:** 2014
ISSN: 0929-8673
eISSN: 1875-533X

Silver-titanium dioxide nanocomposites as effective antimicrobial and antibiofilm agents

Author(s): Lungu, M; Gavriiliu, S; Enescu, E; Ion, I; Bratulescu, A; Mihaescu, G; Marutescu, L; **Chifiriuc, MC**

Source: JOURNAL OF NANOPARTICLE RESEARCH **Volume:** 16 **Issue:** 1 **Article Number:** 2203

DOI: 10.1007/s11051-013-2203-3 **Published:** DEC 24 2013

ISSN: 1388-0764

eISSN: 1572-896X

Virulence markers in Pseudomonas aeruginosa isolates from hospital-acquired infections occurred in patients with underlying cardiovascular disease

Author(s): Holban, AM; ***Chifiriuc, MC**; Cotar, AI; Bleotu, C; Grumezescu, AM; Banu, O; Lazar, V

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 18 **Issue:** 6 **Pages:** 8843-8854

Published: NOV-DEC 2013

ISSN: 1224-5984

Water dispersible cross-linked magnetic chitosan beads for increasing the antimicrobial efficiency of aminoglycoside antibiotics

Author(s): Grumezescu, AM; Andronescu, E; Holban, AM; Ficai, A; Ficai, D; Voicu, G; Grumezescu, V; Balaure, PC; **Chifiriuc, CM**

Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 454 **Issue:** 1

Pages: 233-240 **DOI:** 10.1016/j.ijpharm.2013.06.054 **Published:** SEP 15 2013

ISSN: 0378-5173

eISSN: 1873-3476

Biohybrid Nanostructured Iron Oxide Nanoparticles and Satureja hortensis to Prevent Fungal Biofilm Development

Author(s): Anghel, I; Grumezescu, AM; Holban, AM; Ficai, A; Anghel, AG; **Chifiriuc, MC**

Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES

Volume: 14 **Issue:** 9 **Pages:** 18110-18123 **DOI:** 10.3390/ijms140918110 **Published:** SEP 2013

eISSN: 1422-0067

Water dispersible magnetite nanoparticles influence the efficacy of antibiotics against planktonic and biofilm embedded Enterococcus faecalis cells

Author(s): **Chifiriuc, MC**; Grumezescu, AM; Andronescu, E; Ficai, A; Cotar, AI; Grumezescu, V; Bezirtzoglou, E; Lazar, V; Radulescu, R

Source: ANAEROBE **Volume:** 22 **Pages:** 14-19

DOI: 10.1016/j.anaerobe.2013.04.013 **Published:** AUG 2013

ISSN: 1075-9964

eISSN: 1095-8274

In vitro activity of the new water-dispersible Fe₃O₄@usnic acid nanostructure against planktonic and sessile bacterial cells

Author(s): Grumezescu, AM; Cotar, AI; Andronescu, E; Ficai, A; Ghitulica, CD; Grumezescu, V; Vasile, BS;

Chifiriuc, MC

Source: JOURNAL OF NANOPARTICLE RESEARCH **Volume:** 15 **Issue:** 7 **Article Number:** 1766

DOI: 10.1007/s11051-013-1766-3 **Published:** JUL 2013

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Magnetic Nanoparticles for Controlling in vitro Fungal Biofilms

Author(s): **Chifiriuc, MC**; Grumezescu, AM; Saviuc, C; Hristu, R; Grumezescu, V; Bleotu, C; Stanciu, G; Mihaiescu, DE; Andronescu, E; Lazar, V; Radulescu, R

Source: CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 10 **Pages:** 1023-1028
DOI: 10.2174/1385272811317100004 **Published:** MAY 2013
ISSN: 1385-2728
eISSN: 1875-5348

Biocompatible Magnetic Hollow Silica Microspheres for Drug Delivery

Author(s): Grumezescu, AM; Andronescu, E; Ficai, A; Grumezescu, V; Bleotu, C; Saviuc, C; Mihaiescu, DE; **Chifiriuc, CM**

Source: CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 10 **Pages:** 1029-1033
DOI: 10.2174/1385272811317100005 **Published:** MAY 2013
ISSN: 1385-2728
eISSN: 1875-5348

Efficient surface functionalization of wound dressings by a phytoactive nanocoating refractory to *Candida albicans* biofilm development

Author(s): Anghel, I; Holban, AM; Andronescu, E; Grumezescu, AM; **Chifiriuc, MC**

Source: BIOINTERPHASES **Volume:** 8 **Article Number:** 12 **DOI:** 10.1186/1559-4106-8-12
Published: APR 25 2013
ISSN: 1934-8630
eISSN: 1559-4106

Antitumor Activity of Magnetite Nanoparticles: Influence of Hydrocarbonated Chain of Saturated Aliphatic Monocarboxylic Acids

Author(s): Voicu, G; Andronescu, E; Grumezescu, AM; Huang, KS; Ficai, A; Yang, CH; Bleotu, C; **Chifiriuc, MC**

Source: CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 8 **Pages:** 831-840
DOI: 10.2174/1385272811317080008 **Published:** APR 2013
ISSN: 1385-2728
eISSN: 1875-5348

Caprolactam-silica network, a strong potentiator of the antimicrobial activity of kanamycin against Gram-positive and Gram-negative bacterial strains

Author(s): Voicu, G; Grumezescu, V; Andronescu, E; Grumezescu, AM; Ficai, A; Ficai, D; Ghitulica, CD; Gheorghe, I; **Chifiriuc, MC**

Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 446 **Issue:** 1-2
Pages: 63-69 **DOI:** 10.1016/j.ijpharm.2013.02.011 **Published:** MAR 25 2013
ISSN: 0378-5173
eISSN: 1873-3476

Investigation of Th1/Th2 cytokine profiles in patients with laryngo-pharyngeal, HPV-positive cancers

Author(s): Bleotu, C; **Chifiriuc, MC**; Grigore, R; Grancea, C; Popescu, CR; Anton, G; Cernescu, C

Source: EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY
Volume: 270 **Issue:** 2 **Pages:** 711-718 **DOI:** 10.1007/s00405-012-2067-7 **Published:** FEB 2013
ISSN: 0937-4477
eISSN: 1434-4726

Special Issue on Quorum Sensing Inhibitors: Synthesis, Optimization, and Emerging Biomedical Applications

Author(s): **Chifiriuc, MC**

Source: CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 2 **Pages:** 89-89
Published: JAN 2013
ISSN: 1385-2728
eISSN: 1875-5348

Current Solutions for the Interception of Quorum Sensing in *Staphylococcus aureus*

Author(s): Cotar, AI; Ionescu, B; Pelinescu, D; Voidarou, C; Lazar, V; Bezirtzoglou, E; **Chifiriuc, MC**

Source: CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 2 **Pages:** 97-104
Published: JAN 2013
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Pseudomonas aeruginosa -Eukaryotic Cell Crosstalk: Mediators, Mechanisms and Implications for the Antimicrobial Therapy

Author(s): Curutiu, C; ***Chifiriuc, MC**; Mitache, MM

Source: CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 2 **Pages:** 149-154

DOI: 10.2174/1385272811317020011 **Published:** JAN 2013
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Anti-pathogenic Strategies for Fighting Pseudomonas aeruginosa Infections- probiotic Soluble Compounds as Inhibitors of Quorum Sensing Genes Expression

Author(s): Cotar, AI; Saviuc, C; Nita, RA; Bezirtzoglou, E; Lazar, V; **Chifiriuc, MC**
Source: CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 2 **Pages:** 155-161
Published: JAN 2013
ISSN: 1385-2728
eISSN: 1875-5348

Antimicrobial Potential of Benzamides and Derived Nanosystems for Controlling in vitro Biofilm Development on Medical Devices

Author(s): Limban, C; Grumezescu, AM; Chirea, M; Matei, L; **Chifiriuc, MC**
Source: CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 2 **Pages:** 162-175
DOI: 10.2174/1385272811317020013 **Published:** JAN 2013
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eISSN: 1875-5348

EUGENIA CARYOPHYLLATA ESSENTIAL OIL-SiO₂ BIOHYBRID STRUCTURE FOR THE POTENTIATION OF ANTIBIOTICS' ACTIVITY

Author(s): Grumezescu, AM; Andronescu, E; Ficai, A; Voicu, G; Cocos, O; **Chifiriuc, MC**
Source: REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS
Volume: 43 **Issue:** 2 **Pages:** 160-166 **Published:** 2013
ISSN: 1583-3186

Modified wound dressing with phyto-nanostructured coating to prevent staphylococcal and pseudomonal biofilm development

Author(s): Anghel, I; Holban, AM; Grumezescu, AM; Andronescu, E; Ficai, A; Anghel, AG; Maganu, M; Lazar, V; **Chifiriuc, MC**
Source: NANOSCALE RESEARCH LETTERS **Volume:** 7 **Pages:** 1-8 **Article Number:** 690
DOI: 10.1186/1556-276X-7-690 **Published:** DEC 31 2012
ISSN: 1931-7573
eISSN: 1556-276X

Hybrid Nanomaterial for Stabilizing the Antibiofilm Activity of Eugenia carryophyllata Essential Oil

Author(s): Grumezescu, AM; **Chifiriuc, MC**; Saviuc, C; Grumezescu, V; Hristu, R; Mihaiescu, DE; Stanciu, GA; Andronescu, E
Source: IEEE TRANSACTIONS ON NANOBIOSCIENCE **Volume:** 11 **Issue:** 4 **Pages:** 360-365
DOI: 10.1109/TNB.2012.2208474 **Published:** DEC 2012
ISSN: 1536-1241
eISSN: 1558-2639

Influence of hybrid inorganic/organic mesoporous and nanostructured materials on the cephalosporins' efficacy on different bacterial strains

Author(s): **Chifiriuc, MC**; Mihaiescu, D; Ilinca, E; Marutescu, L; Mihaescu, G; Grumezescu, AM
Source: IET NANOBIO TECHNOLOGY **Volume:** 6 **Issue:** 4 **Pages:** 156-161
DOI: 10.1049/iet-nbt.2011.0066 **Published:** DEC 2012
ISSN: 1751-8741
eISSN: 1751-875X

Improved antibacterial activity of cephalosporins loaded in magnetic chitosan microspheres

Author(s): **Chifiriuc, CM**; Grumezescu, AM; Saviuc, C; Croitoru, C; Mihaiescu, DE; Lazar, V
Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 436 **Issue:** 1-2
Pages: 201-205 **DOI:** 10.1016/j.ijpharm.2012.06.031 **Published:** OCT 15 2012
ISSN: 0378-5173
eISSN: 1873-3476

Synthesis, characterization and in vitro assessment of the magnetic chitosan-carboxymethylcellulose biocomposite interactions with the prokaryotic and eukaryotic cells

Author(s): Grumezescu, AM; Andronescu, E; Ficai, A; Bleotu, C; Mihaiescu, DE; **Chifiriuc, MC**
Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 436 **Issue:** 1-2

Pages: 771-777 **DOI:** 10.1016/j.ijpharm.2012.07.063 **Published:** OCT 15 2012
ISSN: 0378-5173
eISSN: 1873-3476

POLYMERIC MAGNETIC SILICA MICROSPHERES AS A DRUG LOADER FOR ANTIMICROBIAL DELIVERY SUBSTANCES

Author(s): Grumezescu, AM; Fikai, A; Fikai, D; Predan, G; **Chifiriuc, MC**
Source: DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES
Volume: 7 **Issue:** 4 **Pages:** 1891-1896 **Published:** OCT-DEC 2012
ISSN: 1842-3582

Optimized Anti-pathogenic Agents Based on Core/Shell Nanostructures and 2-((4-Ethylphenoxy)ethyl)-N-(substituted-phenylcarbamothioyl)-benzamides

Author(s): Limban, C; Grumezescu, AM; Saviuc, C; Voicu, G; Predan, G; Sakizlian, R; **Chifiriuc, MC**
Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES
Volume: 13 **Issue:** 10 **Pages:** 12584-12597 **DOI:** 10.3390/ijms131012584 **Published:** OCT 2012
ISSN: 1661-6596
eISSN: 1422-0067

In vitro evaluation of anti-pathogenic surface coating nanofluid, obtained by combining Fe₃O₄/C-12 nanostructures and 2-((4-ethylphenoxy)methyl)-N-(substituted-phenylcarbamothioyl)-benzamides

Author(s): Anghel, I; Limban, C; Grumezescu, AM; Anghel, AG; Bleotu, C ; **Chifiriuc, MC**
Source: NANOSCALE RESEARCH LETTERS **Volume:** 7 **Article Number:** 513
DOI: 10.1186/1556-276X-7-513 **Published:** SEP 19 2012
ISSN: 1931-7573
eISSN: 1556-276X

Magnetite nanoparticles for functionalized textile dressing to prevent fungal biofilms development

Author(s): Anghel, I; Grumezescu, AM; Andronescu, E; Anghel, AG; Fikai, A; Saviuc, C; Grumezescu, V; Vasile, BS; **Chifiriuc, MC**
Source: NANOSCALE RESEARCH LETTERS **Volume:** 7 **Article Number:** 501
DOI: 10.1186/1556-276X-7-501 **Published:** SEP 6 2012
ISSN: 1931-7573
eISSN: 1556-276X

ANTIBIOTIC POTENTIATOR EFFECT OF THE NATURAL AND SYNTHETIC ZEOLITES WITH WELL DEFINED NANOPORES WITH POSSIBLE ENT CLINICAL APPLICATIONS

Author(s): Anghel, I; Grumezescu, AM; Anghel, AG; Chireac, I; Marutescu, L; Mihaiescu, DE; **Chifiriuc, MC**
Source: FARMACIA **Volume:** 60 **Issue:** 5 **Pages:** 688-695 **Published:** SEP-OCT 2012
ISSN: 0014-8237
eISSN: 2065-0019

PROTECTIVE EFFECT OF MAGNETITE NANOPARTICLE/SALVIA OFFICINALIS ESSENTIAL OIL HYBRID NANOBIOSYSTEM AGAINST FUNGAL COLONIZATION ON THE PROVOX (R) VOICE SECTION PROSTHESIS

Author(s): Anghel, I; Grumezescu, V; Andronescu, E; Anghel, GA; Grumezescu, AM; Mihaiescu, DE; **Chifiriuc, MC**
Source: DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES
Volume: 7 **Issue:** 3 **Pages:** 1205-1212 **Published:** JUL-SEP 2012
ISSN: 1842-3582

Hybrid magnetite nanoparticles/Rosmarinus officinalis essential oil nanobiosystem with antibiofilm activity

Author(s): **Chifiriuc, C**; Grumezescu, V; Grumezescu, AM; Saviuc, C; Lazar, V; Andronescu, E
Source: NANOSCALE RESEARCH LETTERS **Volume:** 7 **DOI:** 10.1186/1556-276X-7-209
Published: APR 10 2012
ISSN: 1556-276X

PHENOTYPIC AND GENOTYPIC ASSESSMENT OF VIRULENCE FACTORS IN BETA-HEMOLYTIC STREPTOCOCCI ISOLATED FROM KINDERGARTEN INFANTILE POPULATION, WITH OR WITHOUT CLINICAL SYMPTOMS, INCLUDING SCARLET FEVER

Author(s): Anghel, I; ***Chifiriuc, MC**; Mitache, M; Marutescu, L; Anghel, AG; Popa, M; Pelinescu, D; Bleotu, C; Lazar, V
Source: FARMACIA **Volume:** 60 **Issue:** 1 **Pages:** 21-31 **Published:** JAN-FEB 2012

ISSN: 0014-8237
eISSN: 2065-0019

Interaction of bacteria isolated from clinical biofilms with cardiovascular prosthetic devices and eukaryotic cells

Author(s): Chifiriuc, MC; Banu, O; Bleotu, C; Lazar, V
Source: ANAEROBE **Volume:** 17 **Issue:** 6 **Special Issue:** SI **Pages:** 419-421
DOI: 10.1016/j.anaerobe.2011.04.016 **Published:** DEC 2011
ISSN: 1075-9964

In vitro assay of the antimicrobial activity of kephir against bacterial and fungal strains

Author(s): Chifiriuc, MC; Cioaca, AB; Lazar, V
Source: ANAEROBE **Volume:** 17 **Issue:** 6 **Special Issue:** SI **Pages:** 433-435
DOI: 10.1016/j.anaerobe.2011.04.020 **Published:** DEC 2011
ISSN: 1075-9964
eISSN: 1095-8274

Modulation of virulence and antibiotic susceptibility of enteropathogenic Escherichia coli strains by Enterococcus faecium probiotic strain culture fractions

Author(s): Ditu, LM; *Chifiriuc, MC; Bezirtzoglou, E; Voltsi, C; Bleotu, C; Pelinescu, D; Mihaescu, G; Lazar, V
Source: ANAEROBE **Volume:** 17 **Issue:** 6 **Special Issue:** SI **Pages:** 448-451
DOI: 10.1016/j.anaerobe.2011.05.019 **Published:** DEC 2011
ISSN: 1075-9964
eISSN: 1095-8274

Inhibitory Activity of Fe₃O₄/Oleic Acid/Usnic Acid-Core/Shell/Extra-Shell Nanofluid on S. aureus Biofilm Development

Author(s): Grumezescu, AM; Saviuc, C; *Chifiriuc, MC; Hristu, R; Mihaiescu, DE; Balaure, P; Stanciu, GA; Lazar, V
Source: IEEE TRANSACTIONS ON NANOBIOSCIENCE **Volume:** 10 **Issue:** 4 **Pages:** 269-274
DOI: 10.1109/TNB.2011.2178263 **Published:** DEC 2011
ISSN: 1536-1241
eISSN: 1558-2639

PATHOGENIC FEATURES AND THERAPEUTICAL IMPLICATIONS OF BIOFILM DEVELOPMENT ABILITY IN MICROBIAL STRAINS ISOLATED FROM RHINOLOGIC CHRONIC INFECTIONS

Author(s): Anghel, I; *Chifiriuc, MC; Anghel, GA
Source: FARMACIA **Volume:** 59 **Issue:** 6 **Pages:** 770-783 **Published:** NOV-DEC 2011
ISSN: 0014-8237

Antibacterial Activity of New Dibenzoxepinone Oximes with Fluorine and Trifluoromethyl Group Substituents

Author(s): Limban, C; Chifiriuc, MC
Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 12 **Issue:** 10 **Pages:** 6432-6444
DOI: 10.3390/ijms12106432 **Published:** OCT 2011
ISSN: 1422-0067

Synthesis, Structure Elucidation and Microbiological Screening of Some New Dibenz [b,e]Oxepin Derivatives

Author(s): Limban, C; Missir, AV; Chirita, IC; Caproiu, MT; Guta, R; Chifiriuc, MC
Source: REVISTA DE CHIMIE **Volume:** 62 **Issue:** 10 **Pages:** 969-974 **Published:** OCT 2011
ISSN: 0034-7752

SYNTHESIS OF NEW DIBENZ[b,e]OXEPINS AND THEIR ANTIMICROBIAL INVESTIGATIONS

Author(s): Limban, C; Missir, AV; Caproiu, MT; *Chifiriuc, MC; Nitulescu, GM; Chirita, IC; Nuta, DC; Morusciag, L; Guta, R
Source: EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES **Volume:** 44 **Pages:** 191-192
Supplement: 1 **Published:** SEP 24 2011
ISSN: 0928-0987

Synthesis, Spectroscopic Properties and Antipathogenic Activity of New Thiourea Derivatives

Author(s): Limban, C; Marutescu, L; Chifiriuc, MC
Source: MOLECULES **Volume:** 16 **Issue:** 9 **Pages:** 7593-7607
DOI: 10.3390/molecules16097593 **Published:** SEP 2011
eISSN: 1420-3049

Selection and characterization of the probiotic potential of some lactic acid bacteria isolated from infant feces

Author(s): Pelinescu, D; ***Chifiriuc, MC**; Ditu, LM; Sarbu, I; Bleotu, C; Vassu, T; Stoica, I; Lazar, V; Corcoionivoschi, N; Sasarmann, E
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 16 **Issue:** 3
Pages: 6278-6289 **Published:** MAY-JUN 2011
ISSN: 1224-5984

Synthesis and Antimicrobial Evaluation of Some New 2-(4-fluoro-phenoxyethyl) Benzoic Acid Thiourea Derivatives

Author(s): Limban, C; Missir, AV; Chirita, IC; Neagu, AF; Draghici, C; **Chifiriuc, MC**
Source: REVISTA DE CHIMIE **Volume:** 62 **Issue:** 2 **Pages:** 168-173 **Published:** FEB 2011
ISSN: 0034-7752

Immunogenicity of different cellular fractions of *Vibrio parahaemolyticus* strains grown under sub-lethal heat and osmotic stress

Author(s): **Chifiriuc, MC**; Pircalabioru, G; Lazar, V; Gilea, B; Dascalu, L; Enache, G; Bleotu, C
ISSN: 1996-0808

BACTERIAL ADHERENCE TO THE CELLULAR AND INERT SUBSTRATE IN THE PRESENCE OF CoFe₂O₄ AND Fe₃O₄/OLEIC ACID - CORE/SHELL

Author(s): **Chifiriuc, C**; Lazar, V; Bleotu, C; Calugarescu, I; Grumezescu, AM; Mihaiescu, DE; Mogosanu, DE; Buteica, AS; Buteica, E
Source: DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES
Volume: 6 **Issue:** 1 **Pages:** 37-42 **Published:** JAN-MAR 2011
ISSN: 1842-3582

DEAE-CELLULOSE/Fe₃O₄/CEPHALOSPORINS HYBRID MATERIALS FOR TARGETED DRUG DELIVERY

Author(s): Grumezescu, AM; Andronescu, E; Ficai, A; Saviuc, C; Mihaiescu, D; **Chifiriuc, MC**
Source: REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS
Volume: 41 **Issue:** 4 **Pages:** 383-387 **Published:** 2011
ISSN: 1583-3186

Screening of Molecular Virulence Markers in *Staphylococcus aureus* and *Pseudomonas aeruginosa* Strains Isolated from Clinical Infections

Author(s): Cotar, AI; ***Chifiriuc, MC**; Dinu, S; Bucur, M; Iordache, C; Banu, O; Dracea, O; Larion, C; Lazar, V
Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES
Volume: 11 **Issue:** 12 **Pages:** 5274-5292 **DOI:** 10.3390/ijms11125273 **Published:** DEC 2010
eISSN: 1422-0067

SYNTHESIS, STRUCTURAL CHARACTERIZATION AND MICROBIOLOGICAL ASSAYS OF SOME NEW 2-METHOXY-O-ACYL-OXIMINO-DIBENZ[b,e]OXEPINS

Author(s): Limban, C; Missir, AV; Chirita, IC; Guta, R; Nanau-Andrescu, D; Nitulescu, GM; Draghici, C; Caproiu, MT; Delcaru, C; **Chifiriuc, MC**
Source: REVUE ROUMAINE DE CHIMIE **Volume:** 55 **Issue:** 6 **Pages:** 313-319
Published: JUN 2010
ISSN: 0035-3930

Thermal, spectral and antimicrobial study on some Cu(II) complexes with ligands bearing biguanide moieties

Author(s): Olar, R; Badea, M; Marinescu, D; Iorgulescu, EE; Frunza, E; Lazar, V; **Chifiriuc, C**
Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY
Volume: 99 **Issue:** 3 **Pages:** 815-821 **DOI:** 10.1007/s10973-009-0414-8
Published: MAR 2010
ISSN: 1388-6150
eISSN: 1572-8943

QSARs on Antibacterial Activity of Some New not yet Synthesized, Substituted Dihydrodibenzothiepins

Author(s): Tarko, L; Stecoza, CE; Nitulescu, GM; Ilie, C; **Chifiriuc, MC**
Source: REVISTA DE CHIMIE **Volume:** 61 **Issue:** 3 **Pages:** 263-266 **Published:** MAR 2010
ISSN: 0034-7752

Antimicrobial activity of some new O-acyloximino-dibenzo[b,e]thiepins and O-acyloximino-dibenzo[b,e]thiepin-5,5-dioxides against planktonic cells

Author(s): **Chifiriuc, MC**; Stecoza, C; Veronica, L; Dracea, O; Larion, C; Israil, AM
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 15 **Issue:** 2 **Pages:** 5134-5139
Published: MAR-APR 2010

ISSN: 1224-5984

New complexes of Ni(II) and Cu(II) with Schiff bases functionalised with 1,3,4-thiadiazole: spectral, magnetic, biological and thermal characterisation

Author(s): Olar, R; Badea, M; Marinescu, D; Lazar, V; **Chifiriuc, C**

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 97 **Issue:** 2 **Pages:** 721-727 **DOI:** 10.1007/s10973-009-0280-4 **Published:** AUG 2009

ISSN: 1388-6150

Thermal behaviour of new Ni(II) and Cu(II) complexes with macrocyclic ligands functionalised with 1,2,4-triazole

Author(s): Olar, R; Badea, M; Marinescu, D; Lazar, V; **Chifiriuc, C**

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 97 **Issue:** 1 **Pages:** 315-321 **DOI:** 10.1007/s10973-008-9650-6

Published: JUL 2009

ISSN: 1388-6150

Impact of different parameters upon the expression of certain virulence factors of nonhalophilic and halophilic *Vibrio* strains

Author(s): Israil, AM; Delcaru, C; **Chifiriuc, MC**

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 14 **Issue:** 4 **Pages:** 4545-4559 **Published:** JUL-AUG 2009

ISSN: 1224-5984

Antimicrobial activity of some new thioureides derived from 2-(4-chlorophenoxymethyl) benzoic acid

Author(s): Limban, C; ***Chifiriuc, MCB**; Missir, AV; Chirita, IC; Bleotu, C

Source: MOLECULES **Volume:** 13 **Issue:** 3 **Pages:** 567-580

DOI: 10.3390/molecules13030567 **Published:** MAR 2008

ISSN: 1420-3049

Influence of soluble mediators upon the expression of different physiological and virulence hallmarks of bacteria

Author(s): **Chifiriuc, MC**; Larion, C; Iordache, C; Lixandru, M; Dracea, O; Bleotu, C; Bucur, M; Israil, AM

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 13 **Issue:** 2 **Pages:** 3631-3642

Published: MAR-APR 2008

ISSN: 1224-5984

Internalization of *Staphylococcus aureus* and *Pseudomonas aeruginosa* bacterial cells by non-phagocytic, epithelial human cells

Author(s): **Chifiriuc, MC**; Lixandru, M; Iordache, C; Bleotu, C; Larion, C; Olguta, D; Lazar, V; Antohe, F; Israil, AM

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 13 **Issue:** 2 **Pages:** 3651-3658

Published: MAR-APR 2008

ISSN: 1224-5984

Drastic attenuation of *Pseudomonas aeruginosa* pathogenicity in a holoxenic mouse experimental model induced by subinhibitory concentrations of phenyllactic acid (PLA)

Author(s): **Chifiriuc, MC**; Veronica, L; Dracea, O; Ditu, LM; Smarandache, D; Bucur, M; Larion, C; Cernat, R; Sasarman, E

Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 8 **Issue:** 7 **Pages:** 583-592 **DOI:** 10.3390/i8070583 **Published:** JUL 2007

ISSN: 1422-0067

Tarko, L; Stecoza, CE; Ilie, C; **Chifiriuc, MC**. QSAR Studies on Antibacterial Activity of Some Substituted Dihydrodibenzothiepins. *Revista de Chimie* Volume 60 nr. 5, 2009, ISSN: 0034-7752

ISI PROCEEDINGS

1.Vrancianu CO, Dobre EG, Gheorghe I, Barbu I, Cristian RE, **Chifiriuc MC** Current Promising Antibiotics and Future Approaches in Combating CarbapenemaseProducing Enterobacteriaceae Multidisciplinary Digital Publishing Institute Proceedings, 2021, 66(1):25

PUBLISHED ARTICLES AS CO-AUTHOR

Title: Benign by design: porous spherical ZnO-alginate family via a dual-template synthesis

Author(s): Ene, CD (Ene, Cristian D.); Cucos, P (Cucos, Paula); Ianculescu, A (Ianculescu, Adelina); Culita, DC (Culita, Daniela C.); Anghel, EM (Anghel, Elena Maria); Cucos, A (Cucos, Andrei); Atkinson, I (Atkinson, Irina); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Calderon-Moreno, JM (Calderon-Moreno, Jose Maria); Carp, O (Carp, Oana)

Source: APPLIED SURFACE SCIENCE **Volume:** 580 **Article**

Number: 152231 **DOI:** 10.1016/j.apsusc.2021.152231 **Published:** APR 1 2022

Accession Number: WOS:000736662300004

Title: Contribution of Epithelial and Gut Microbiome Inflammatory Biomarkers to the Improvement of Colonctal Cancer Patients' Stratification

Author(s): Ionica, E (Ionica, Elena); Gaina, G (Gaina, Gisela); Tica, M (Tica, Mihaela); Chifiriuc, MC (Chifiriuc, Mariana-Carmen); Gradisteanu-Pircalabioru, G (Gradisteanu-Pircalabioru, Gratiela)

Source: FRONTIERS IN ONCOLOGY **Volume:** 11 **Article**

Number: 811486 **DOI:** 10.3389/fonc.2021.811486 **Published:** FEB 7 2022

Accession Number: WOS:000760700000001

PubMed ID: 35198435

ISSN: 2234-943X

Title: Insights into Structure and Biological Activity of Copper(II) and Zinc(II) Complexes with Triazolopyrimidine Ligands

Author(s): Argaseala, A (Argaseala, Aura); Maxim, C (Maxim, Catalin); Badea, M (Badea, Mihaela); Ionita, L (Ionita, Larisa); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Rostas, AM (Rostas, Arpad Mihai); Bacalum, M (Bacalum, Mihaela); Raileanu, M (Raileanu, Mina); Ruta, LL (Ruta, Lavinia L.); Farcasanu, IC (Farcasanu, Ileana C.); Iorgulescu, EE (Iorgulescu, Emilia Elena); Olar, R (Olar, Rodica)

Source: MOLECULES **Volume:** 27 **Issue:** 3 **Article**

Number: 765 **DOI:** 10.3390/molecules27030765 **Published:** FEB 2022

Accession Number: WOS:000759549000001

PubMed ID: 35164029

Title: Soft Chemistry Synthesis and Characterization of CoFe_{1.8}RE_{0.2}O₄ (RE³⁺ = Tb³⁺, Er³⁺) Ferrite

Author(s): Gingasu, D (Gingasu, Dana); Mindru, I (Mindru, Ioana); Ianculescu, AC (Ianculescu, Adelina-Carmen); Diamandescu, L (Diamandescu, Lucian); Surdu, VA (Surdu, Vasile-Adrian); Marinescu, G (Marinescu, Gabriela); Bartha, C (Bartha, Cristina); Preda, S (Preda, Silviu); Popa, M (Popa, Marcela); Chifiriuc, MC (Chifiriuc, Mariana Carmen)

Source: MAGNETOCHEMISTRY **Volume:** 8 **Issue:** 2 **Article**

Number: 12 **DOI:** 10.3390/magnetochemistry8020012 **Published:** FEB 2022

Accession Number: WOS:000763037000001

Title: Novel Structures of Functionalized Graphene Oxide with Hydrazide: Characterization and Bioevaluation of Antimicrobial and Cytocompatibility Features

Author(s): Zarafu, I (Zarafu, Irina); Limban, C (Limban, Carmen); Radulescu, C (Radulescu, Cristiana); Dulama, ID (Dulama, Ioana Daniela); Nuta, DC (Nuta, Diana Camelia); Chirita, C (Chirita, Cornel); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Badiceanu, CD (Badiceanu, Carmellina Daniela); Popa, M (Popa, Marcela); Bleotu, C (Bleotu, Coralia); Dragu, LD (Dragu, Laura Denisa); Stirbescu, RM (Stirbescu, Raluca Maria);

Bucurica, IA (Bucurica, Ioan Alin); Stanescu, SG (Stanescu, Sorina Geanina); Ionita, P (Ionita, Petre)

Source: COATINGS **Volume:** 12 **Issue:** 1 **Article**

Number: 45 **DOI:** 10.3390/coatings12010045 **Published:** JAN 2022

Accession Number: WOS:000748826200001

Title: Fabrication of Novel Chitosan-Hydroxyapatite Nanostructured Thin Films for Biomedical Applications

Author(s): Ciobanu, CS (Ciobanu, Carmen Steluta); Iconaru, SL (Iconaru, Simona Liliana); Predoi, D (Predoi, Daniela); Trusca, RD (Trusca, Roxana-Doina); Prodan, AM (Prodan, Alina Mihaela); Groza, A (Groza, Andreea); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Beuran, M (Beuran, Mircea)

Source: COATINGS **Volume:** 11 **Issue:** 12 **Article**

Number: 1561 **DOI:** 10.3390/coatings11121561 **Published:** DEC 2021

Accession Number: WOS:000736056800001

Title: Carriage of ESBL-producing Enterobacterales in wastewater treatment plant workers and surrounding residents - the AWARE Study

Author(s): Rodriguez-Molina, D (Rodriguez-Molina, Daloha); Berglund, F (Berglund, Fanny); Blaak, H (Blaak, Hetty); Flach, CF (Flach, Carl-Fredrik); Kemper, M (Kemper, Merel); Marutescu, L (Marutescu, Luminita); Gradisteanu, GP (Gradisteanu, Gratiela Pircalabioru); Popa, M (Popa, Marcela); Spiessberger, B (Spiessberger, Beate); Weinmann, T (Weinmann, Tobias); Wengenroth, L (Wengenroth, Laura); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Larsson, DGJ (Larsson, D. G. Joakim); Nowak, D (Nowak, Dennis); Radon, K (Radon, Katja); Husman, AMD (de Roda Husman, Ana Maria); Wieser, A (Wieser, Andreas); Schmitt, H (Schmitt, Heike)

Source: EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES **DOI:** 10.1007/s10096-021-04387-z **Early Access Date:** DEC 2021

Accession Number: WOS:000729664900001

Title: Point-of-Care Testing-The Key in the Battle against SARS-CoV-2 Pandemic

Author(s): Iliescu, FS (Iliescu, Florina Silvia); Ionescu, AM (Ionescu, Ana Maria); Gogianu, L (Gogianu, Larisa); Simion, M (Simion, Monica); Dediu, V (Dediu, Violeta); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); Iliescu, C (Iliescu, Ciprian)

Source: MICROMACHINES **Volume:** 12 **Issue:** 12 **Article**

Number: 1464 **DOI:** 10.3390/mi12121464 **Published:** DEC 2021

Accession Number: WOS:000736266900001

Title: Biological Activity of Triazolopyrimidine Copper(II) Complexes Modulated by an Auxiliary N-N-Chelating Heterocycle Ligands

Author(s): Ruta, LL (Ruta, Lavinia L.); Farcasanu, IC (Farcasanu, Ileana C.); Bacalum, M (Bacalum, Mihaela); Raileanu, M (Raileanu, Mina); Rostas, AM (Rostas, Arpad Mihai); Daniliuc, C (Daniliuc, Constantin); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Marutescu, L (Marutescu, Luminita); Popa, M (Popa, Marcela); Badea, M (Badea, Mihaela); Iorgulescu, EE (Iorgulescu, Emilia Elena); Olar, R (Olar, Rodica)

Source: MOLECULES **Volume:** 26 **Issue:** 22 **Article**

Number: 6772 **DOI:** 10.3390/molecules26226772 **Published:** NOV 2021

eISSN: 1420-3049

Title: Original Contributions to the Chemical Composition, Microbicidal, Virulence-Arresting and Antibiotic-Enhancing Activity of Essential Oils from Four Coniferous Species

Author(s): Visan, DC (Visan, Diana-Carolina); Oprea, E (Oprea, Eliza); Radulescu, V (Radulescu, Valeria); Voiculescu, I (Voiculescu, Ion); Biris, IA (Biris, Iovu-Adrian); Cotar, AI (Cotar, Ani Ioana); Saviuc, C (Saviuc, Crina); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Marinas, IC (Marinas, Ioana Cristina)

Source: PHARMACEUTICALS **Volume:** 14 **Issue:** 11 **Article**

Number: 1159 **DOI:** 10.3390/ph14111159 **Published:** NOV 2021

eISSN: 1424-8247

Title: Copper(II) species with 1-(o-tolyl)biguanide: Structural characterization, ROS scavenging, antibacterial activity, biocompatibility and in silico studies

Author(s): Maxim, C (Maxim, Catalin); Badea, M (Badea, Mihaela); Rostas, AM (Rostas, Arpad Mihai);

Chifiriuc, MC (Chifiriuc, Mariana Carmen); Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); Avram, S (Avram, Speranta); Olar, R (Olar, Rodica)

Source: APPLIED ORGANOMETALLIC CHEMISTRY **Article**

Number: e6471 **DOI:** 10.1002/aoc.6471 **Early Access Date:** OCT 2021

ISSN: 0268-2605

eISSN: 1099-0739

Title: Sintered and 3D-Printed Bulks of MgB₂-Based Materials with Antimicrobial Properties

Author(s): Badica, P (Badica, Petre); Batalu, ND (Batalu, Nicolae Dan); **Chifiriuc, MC (Chifiriuc, Mariana Carmen);** Burdusel, M (Burdusel, Mihail); Grigoroscuta, MA (Grigoroscuta, Mihai Alexandru); Aldica, GV (Aldica, Gheorghe Virgil); Pasuk, I (Pasuk, Iuliana); Kuncser, A (Kuncser, Andrei); Popa, M (Popa, Marcela); Agostino, A (Agostino, Angelo); Operti, L (Operti, Lorenza); Padhi, SK (Padhi, Santanu Kumar); Bonino, V (Bonino, Valentina); Truccato, M (Truccato, Marco)

Source: MOLECULES **Volume:** 26 **Issue:** 19 **Article**

Number: 6045 **DOI:** 10.3390/molecules26196045 **Published:** OCT 2021

eISSN: 1420-3049

Title: Microcalorimetry-Versatile Method of Describing Bacterial Growth

Author(s): Popa, MIG (Popa, Mihnea Ioan Gabriel); Cursaru, A (Cursaru, Adrian); Serban, B (Serban, Bogdan); Cretu, B (Cretu, Bogdan); Muntean, AA (Muntean, Andrei Alexandru); Popa, VT (Popa, Vlad Tudor); **Chifiriuc, MC (Chifiriuc, Mariana Carmen);** Cirstoiu, C (Cirstoiu, Catalin)

Source: APPLIED SCIENCES-BASEL **Volume:** 11 **Issue:** 20 **Article**

Number: 9740 **DOI:** 10.3390/app11209740 **Published:** OCT 2021

eISSN: 2076-3417

Title: Composite Drug Delivery System Based on Amorphous Calcium Phosphate-Chitosan: An Efficient Antimicrobial Platform for Extended Release of Tetracycline

Author(s): Visan, AI (Visan, Anita Ioana); Ristoscu, C (Ristoscu, Carmen); Popescu-Pelin, G (Popescu-Pelin, Gianina); Sopronyi, M (Sopronyi, Mihai); Matei, CE (Matei, Consuela Elena); Socol, G (Socol, Gabriel); **Chifiriuc, MC (Chifiriuc, Mariana Carmen);** Bleotu, C (Bleotu, Coralia); Grossin, D (Grossin, David); Brouillet, F (Brouillet, Fabien); Le Grill, S (Le Grill, Sylvain); Bertrand, G (Bertrand, Ghislaine); Zgura, I (Zgura, Irina); Cristescu, R (Cristescu, Rodica); Mihailescu, IN (Mihailescu, Ion N.)

Source: PHARMACEUTICS **Volume:** 13 **Issue:** 10 **Article**

Number: 1659 **DOI:** 10.3390/pharmaceutics13101659 **Published:** OCT 2021

eISSN: 1999-4923

Title: The in vitro and in vivo anti-virulent effect of organic acid mixtures against Eimeria tenella and Eimeria bovis

Author(s): Balta, I (Balta, Igori); Marcu, A (Marcu, Adela); Linton, M (Linton, Mark); Kelly, C (Kelly, Carmel); Stef, L (Stef, Lavinia); Pet, I (Pet, Ioan); Ward, P (Ward, Patrick); Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); **Chifiriuc, C (Chifiriuc, Carmen);** Gundogdu, O (Gundogdu, Ozan); Callaway, T (Callaway, Todd); Corcionivoschi, N (Corcionivoschi, Nicolae)

Source: SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article Number:** 16202 **DOI:** 10.1038/s41598-021-95459-9 **Published:** AUG 10 2021

ISSN: 2045-2322

Title: Synthesis, In Silico and In Vitro Evaluation of Antimicrobial and Toxicity Features of New 4-[(4-Chlorophenyl)sulfonyl]benzoic Acid Derivatives

Author(s): Apostol, TV (Apostol, Theodora-Venera); **Chifiriuc, MC (Chifiriuc, Mariana Carmen);** Draghici, C (Draghici, Constantin); Socea, LI (Socea, Laura-Ileana); Marutescu, LG (Marutescu, Luminita Gabriela); Olaru, OT (Olaru, Octavian Tudorel); Nitulescu, GM (Nitulescu, George Mihai); Pahontu, EM (Pahontu, Elena Mihaela); Saramet, G (Saramet, Gabriel); Barbuceanu, SF (Barbuceanu, Stefania-Felicia)

Source: MOLECULES **Volume:** 26 **Issue:** 16 **Article**

Number: 5107 **DOI:** 10.3390/molecules26165107 **Published:** AUG 2021

eISSN: 1420-3049

Title: The Impact of Long-Term Antibiotic Therapy of Cutaneous Adverse Reactions to EGFR Inhibitors in Colorectal Cancer Patients

Author(s): Mihai, MM (Mihai, Mara Madalina); Ion, A (Ion, Ana); Giurcaneanu, C (Giurcaneanu, Calin); Nitipir, C (Nitipir, Cornelia); Popa, AM (Popa, Ana-Maria); **Chifiriuc, MC (Chifiriuc, Mariana-Carmen)**; Popa, MI (Popa, Mircea Ioan); Ricar, J (Ricar, Jan); Popa, LG (Popa, Liliana Gabriela); Sarbu, I (Sarbu, Ionela); Lazar, V (Lazar, Veronica)

Source: JOURNAL OF CLINICAL MEDICINE **Volume:** 10 **Issue:** 15 **Article**

Number: 3219 **DOI:** 10.3390/jcm10153219 **Published:** AUG 2021

eISSN: 2077-0383

Title: Antimicrobial Activity of MgB2 Powders Produced via Reactive Liquid Infiltration Method

Author(s): Padhi, SK (Padhi, Santanu Kumar); Baglieri, N (Baglieri, Nicoletta); Bonino, V (Bonino, Valentina); Agostino, A (Agostino, Angelo); Operti, L (Operti, Lorenza); Batalu, ND (Batalu, Nicolae Dan); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Popa, M (Popa, Marcela); Burdusel, M (Burdusel, Mihail); Grigoroscuta, MA (Grigoroscuta, Mihai Alexandru); Aldica, GV (Aldica, Gheorghe Virgil); Radu, D (Radu, Dana); Badica, P (Badica, Petre); Truccato, M (Truccato, Marco)

Source: MOLECULES **Volume:** 26 **Issue:** 16 **Article**

Number: 4966 **DOI:** 10.3390/molecules26164966 **Published:** AUG 2021

eISSN: 1420-3049

Title: Isoflavonoid-Antibiotic Thin Films Fabricated by MAPLE with Improved Resistance to Microbial Colonization

Author(s): Grumezescu, V (Grumezescu, Valentina); Negut, I (Negut, Irina); Cristescu, R (Cristescu, Rodica); Grumezescu, AM (Grumezescu, Alexandru Mihai); Holban, AM (Holban, Alina Maria); Iordache, F (Iordache, Florin); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Narayan, RJ (Narayan, Roger J.); Chrisey, DB (Chrisey, Douglas B.)

Source: MOLECULES **Volume:** 26 **Issue:** 12 **Article**

Number: 3634 **DOI:** 10.3390/molecules26123634 **Published:** JUN 2021

eISSN: 1420-3049

Title: ZnO Nanoparticles-Modified Dressings to Inhibit Wound Pathogens

Author(s): Rayyif, SMI (Rayyif, Sajjad Mohsin, I); Mohammed, HB (Mohammed, Hamzah Basil); Curutiu, C (Curutiu, Carmen); Birca, AC (Birca, Alexandra Catalina); Grumezescu, AM (Grumezescu, Alexandru Mihai); Vasile, BS (Vasile, Bogdan Stefan); Ditu, LM (Ditu, Lia Mara); Lazar, V (Lazar, Veronica); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Mihaescu, G (Mihaescu, Grigore); Holban, AM (Holban, Alina Maria)

Source: MATERIALS **Volume:** 14 **Issue:** 11 **Article**

Number: 3084 **DOI:** 10.3390/ma14113084 **Published:** JUN 2021

eISSN: 1996-1944

Title: MgB2 powders and bioevaluation of their interaction with planktonic microbes, biofilms, and tumor cells

Author(s): Badica, P (Badica, P.); Batalu, ND (Batalu, N. D.); **Chifiriuc, MC (Chifiriuc, M. C.)**; Burdusel, M (Burdusel, M.); Grigoroscuta, MA (Grigoroscuta, M. A.); Aldica, G (Aldica, G.); Pasuk, I (Pasuk, I); Kuncser, A (Kuncser, A.); Enculescu, M (Enculescu, M.); Popa, M (Popa, M.); Marutescu, LG (Marutescu, L. G.); Gheorghe, I (Gheorghe, I); Thamer, O (Thamer, O.); Bleotu, C (Bleotu, C.); Pircalabioru, GG (Pircalabioru, G. Gradisteanu); Operti, L (Operti, L.); Bonino, V (Bonino, V); Agostino, A (Agostino, A.); Truccato, M (Truccato, M.)

Source: JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 12 **Pages:** 2168-2184 **DOI:** 10.1016/j.jmrt.2021.04.003 **Published:** MAY-JUN 2021

ISSN: 2238-7854

eISSN: 2214-0697

Title: New O-Aryl-Carbamoyl-Oxymino-Fluorene Derivatives with MI-Crobicidal and Antibiofilm Activity Enhanced by Combination with Iron Oxide Nanoparticles

Author(s): Vlad, IM (Vlad, Ilinca Margareta); Nuta, DC (Nuta, Diana Camelia); Ancuceanu, RV (Ancuceanu, Robert Viorel); Caproiu, MT (Caproiu, Miron Teodor); Dumitrascu, F (Dumitrascu, Florea); Marinas, IC (Marinas, Ioana Cristina); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Marutescu, LG (Marutescu, Luminita Gabriela); Zarafu, I (Zarafu, Irina); Papacocea, IR (Papacocea, Ioana Raluca); Vasile, BS (Vasile,

Bogdan Stefan); Nicoara, AI (Nicoara, Adrian Ionut); Ilie, CI (Ilie, Cornelia-Ioana); Ficai, A (Ficai, Anton); Limban, C (Limban, Carmen)

Source: MOLECULES **Volume:** 26 **Issue:** 10 **Article**

Number: 3002 **DOI:** 10.3390/molecules26103002 **Published:** MAY 2021

eISSN: 1420-3049

Title: Antibiotic Resistance in Wastewater Treatment Plants and Transmission Risks for Employees and Residents: The Concept of the AWARE Study

Author(s): Wengenroth, L (Wengenroth, Laura); Berglund, F (Berglund, Fanny); Blaak, H (Blaak, Hetty); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Flach, CF (Flach, Carl-Fredrik); Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); Larsson, DGJ (Larsson, D. G. Joakim); Marutescu, L (Marutescu, Luminita); van Passel, MWJ (van Passel, Mark W. J.); Popa, M (Popa, Marcela); Radon, K (Radon, Katja); Husman, AMD (de Roda Husman, Ana Maria); Rodriguez-Molina, D (Rodriguez-Molina, Daloha); Weinmann, T (Weinmann, Tobias); Wieser, A (Wieser, Andreas); Schmitt, H (Schmitt, Heike)

Source: ANTIBIOTICS-BASEL **Volume:** 10 **Issue:** 5 **Article**

Number: 478 **DOI:** 10.3390/antibiotics10050478 **Published:** MAY 2021

ISSN: 2079-6382

Title: Eugenol-Functionalized Magnetite Nanoparticles Modulate Virulence and Persistence in *Pseudomonas aeruginosa* Clinical Strains

Author(s): Mohammed, HB (Mohammed, Hamzah Basil); Rayyif, SMI (Rayyif, Sajjad Mohsin I.); Curutiu, C (Curutiu, Carmen); Birca, AC (Birca, Alexandra Catalina); Oprea, OC (Oprea, Ovidiu-Cristian); Grumezescu, AM (Grumezescu, Alexandru Mihai); Ditu, LM (Ditu, Lia-Mara); Gheorghe, I (Gheorghe, Irina); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Mihaescu, G (Mihaescu, Grigore); Holban, AM (Holban, Alina-Maria)

Source: MOLECULES **Volume:** 26 **Issue:** 8 **Article**

Number: 2189 **DOI:** 10.3390/molecules26082189 **Published:** APR 2021

eISSN: 1420-3049

Title: Microbiome, Immunosenescence, and Chronic Kidney Disease

Author(s): Stavropoulou, E (Stavropoulou, Elisavet); Kantartzi, K (Kantartzi, Konstantia); Tsigalou, C (Tsigalou, Christina); Aftzoglou, K (Aftzoglou, Konstantina); Voidarou, C (Voidarou, Chrysa); Konstantinidis, T (Konstantinidis, Theocharis); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Thodis, E (Thodis, Elias); Bezirtzoglou, E (Bezirtzoglou, Eugenia)

Source: FRONTIERS IN MEDICINE **Volume:** 8 **Article**

Number: 661203 **DOI:** 10.3389/fmed.2021.661203 **Published:** MAR 19 2021

eISSN: 2296-858X

Title: Contribution of Essential Oils to the Fight against Microbial Biofilms-A Review

Author(s): Nuta, DC (Nuta, Diana Camelia); Limban, C (Limban, Carmen); Chirita, C (Chirita, Cornel); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Costea, T (Costea, Teodora); Ionita, P (Ionita, Petre); Nicolau, I (Nicolau, Ioana); Zarafu, I (Zarafu, Irina)

Source: PROCESSES **Volume:** 9 **Issue:** 3 **Article**

Number: 537 **DOI:** 10.3390/pr9030537 **Published:** MAR 2021

eISSN: 2227-9717

Title: Phenotypic and genotypic virulence features of staphylococcal strains isolated from difficult-to-treat skin and soft tissue infections

Author(s): Preda, M (Preda, Madalina); Mihai, MM (Mihai, Mara Madalina); Popa, LI (Popa, Laura Ioana); Ditu, LM (Ditu, Lia-Mara); Holban, AM (Holban, Alina Maria); Manolescu, LSC (Manolescu, Loredana Sabina Cornelia); Popa, GL (Popa, Gabriela-Loredana); Muntean, AA (Muntean, Andrei-Alexandru); Gheorghe, I (Gheorghe, Irina); **Chifiriuc, CM (Chifiriuc, Carmen Mariana)**; Popa, MI (Popa, Mircea-Ioan)

Source: PLOS ONE **Volume:** 16 **Issue:** 2 **Article**

Number: e0246478 **DOI:** 10.1371/journal.pone.0246478 **Published:** FEB 2 2021

ISSN: 1932-6203

Title: Antibiotic resistance profiles in cultivable microbiota isolated from some romanian natural fishery lakes

included in Natura 2000 network

Author(s): Lazar, V (Lazar, Veronica); Gheorghe, I (Gheorghe, Irina); Curutiu, C (Curutiu, Carmen); Savin, I (Savin, Ioana); Marinescu, F (Marinescu, Florica); Cristea, VC (Cristea, Violeta Corina); Dobre, D (Dobre, Dumitru); Popa, GL (Popa, Gabriela Loredana); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Popa, MI (Popa, Mircea Ioan)

Source: BMC VETERINARY RESEARCH **Volume:** 17 **Issue:** 1 **Article Number:** 52 **DOI:** 10.1186/s12917-021-02770-8 **Published:** JAN 26 2021
eISSN: 1746-6148

Title: First report on antibiotic resistance and antimicrobial activity of bacterial isolates from 13,000-year old cave ice core

Author(s): Paun, VI (Paun, Victoria I.); Lavin, P (Lavin, Paris); **Chifiriuc, MC (Chifiriuc, Mariana C.)**; Purcarea, C (Purcarea, Cristina)

Source: SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article Number:** 514 **DOI:** 10.1038/s41598-020-79754-5 **Published:** JAN 12 2021
ISSN: 2045-2322

Title: New Cobalt (II) Complexes with Imidazole Derivatives: Antimicrobial Efficiency against Planktonic and Adherent Microbes and In Vitro Cytotoxicity Features

Author(s): Fudulu, A (Fudulu, Alina); Olar, R (Olar, Rodica); Maxim, C (Maxim, Catalin); Scaeteanu, GV (Scaeteanu, Gina Vasile); Bleotu, C (Bleotu, Coralia); Matei, L (Matei, Lilia); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Badea, M (Badea, Mihaela)

Source: MOLECULES **Volume:** 26 **Issue:** 1 **Article Number:** 55 **DOI:** 10.3390/molecules26010055 **Published:** JAN 2021
eISSN: 1420-3049

Insight on Ni(II) and Cu(II) complexes of biguanide derivatives developed as effective antimicrobial and antitumour agents

Author(s): Badea, M; Grecu, MN; **Chifiriuc, MC**; Bleotu, C; Popa, M; Iorgulescu, EE; Avram, S; Uivarosi, V; Munteanu, AC; Ghica, D; Olar, R

Source: APPLIED ORGANOMETALLIC CHEMISTRY **Article Number:** e6155
DOI: 10.1002/aoc.6155 **Early Access Date:** JAN 2021
ISSN: 0268-2605
eISSN: 1099-0739

Antibiotic resistance profiles in cultivable microbiota isolated from some romanian natural fishery lakes included in Natura 2000 network

Author(s): Lazar, V; Gheorghe, I; Curutiu, C; Savin, I; Marinescu, F; Cristea, VC; Dobre, D; Popa, GL; **Chifiriuc, MC**; Popa, MI

Source: BMC VETERINARY RESEARCH **Volume:** 17 **Issue:** 1 **Article Number:** 52
DOI: 10.1186/s12917-021-02770-8 **Published:** JAN 26 2021
eISSN: 1746-6148

New Cobalt (II) Complexes with Imidazole Derivatives: Antimicrobial Efficiency against Planktonic and Adherent Microbes and In Vitro Cytotoxicity Features

Author(s): Fudulu, A; Olar, R; Maxim, C; Scaeteanu, GV; Bleotu, C; Matei, L; **Chifiriuc, MC**; Badea, M

Source: MOLECULES **Volume:** 26 **Issue:** 1 **Article Number:** 55
DOI: 10.3390/molecules26010055 **Published:** JAN 2021
eISSN: 1420-3049

Fish Bone Derived Bi-Phasic Calcium Phosphate Coatings Fabricated by Pulsed Laser Deposition for Biomedical Applications

Author(s): Popescu-Pelin, G; Ristoscu, C; Duta, L; Pasuk, I; Stan, GE; Stan, MS; Popa, M; **Chifiriuc, MC**; Hapenciuc, C; Oktar, FN; Nicarel, A; Mihailescu, IN

Source: MARINE DRUGS **Volume:** 18 **Issue:** 12 **Article Number:** 623
DOI: 10.3390/md18120623 **Published:** DEC 2020
eISSN: 1660-3397

Resistance and Virulence Features of Bacteroides spp. Isolated from Abdominal Infections in Romanian Patients

Author(s): Pricop, GR; Gheorghe, I; Pircalabioru, GG; Cristea, V; Popa, M; Marutescu, L; **Chifiriuc, MC**; Mihaescu,

G; Bezirtzoglou, E
Source: PATHOGENS **Volume:** 9 **Issue:** 11 **Article Number:** 940
DOI: 10.3390/pathogens9110940 **Published:** NOV 2020
eISSN: 2076-0817

Evaluating the role of the working environment on to skin and upper respiratory tract microbiota of museum workers

Author(s): Scarlat, IP; Stroe, R; Ditu, LM; Curutiu, C; Chiurtu, ER; Stanculescu, I; **Chifiriuc, MC**; Lazar, V

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 25 **Issue:** 6 **Pages:** 2103-2106

DOI: 10.25083/rbl/25.6/2103.2106 **Published:** NOV-DEC 2020

ISSN: 1224-5984

Copper(II) Complexes with Mixed Heterocycle Ligands as Promising Antibacterial and Antitumor Species

Author(s): Rostas, AM; Badea, M; Ruta, LL; Farcasanu, IC; Maxim, C; **Chifiriuc, MC**; Popa, M; Luca, M; Korosin, NC; Korosec, RC; Bacalum, M; Raileanu, M; Olar, R

Source: MOLECULES **Volume:** 25 **Issue:** 17 **Article Number:** 3777

DOI: 10.3390/molecules25173777 **Published:** SEP 2020

eISSN: 1420-3049

Synthesis, density functional theory study and in vitro antimicrobial evaluation of new benzimidazole Mannich bases

Author(s): Marinescu, M; Cinteza, LO; Marton, GI; **Chifiriuc, MC**; Popa, M; Stanculescu, I; Zlaru, CM; Stavarache, CE

Source: BMC CHEMISTRY **Volume:** 14 **Issue:** 1 **Article Number:** 45

DOI: 10.1186/s13065-020-00697-z **Published:** JUL 25 2020

eISSN: 2661-801X

In Vitro Evaluation of the Antimicrobial and Immunomodulatory Activity of Culinary Herb Essential Oils as Potential Probiotics

Author(s): Popa, M; Marutescu, L; Oprea, E; Bleotu, C; Kamerzan, C; **Chifiriuc, MC**; Pircalabioru, GG

Source: ANTIBIOTICS-BASEL **Volume:** 9 **Issue:** 7 **Article Number:** 428

DOI: 10.3390/antibiotics9070428 **Published:** JUL 2020

ISSN: 2079-6382

Beneficial effects of food supplements based on hydrolyzed collagen for skin care (Review)

Author(s): Lupu, MA; Pircalabioru, GG; **Chifiriuc, MC**; Albuiescu, R; Tanase, C

Source: EXPERIMENTAL AND THERAPEUTIC MEDICINE **Volume:** 20 **Issue:** 1 **Pages:** 12-17

DOI: 10.3892/etm.2019.8342 **Published:** JUL 2020

ISSN: 1792-0981

eISSN: 1792-1015

IN SILICO AND EXPERIMENTAL STUDIES FOR THE DEVELOPMENT OF NOVEL OXAZOL-5(4H)-ONES WITH PHARMACOLOGICAL POTENTIAL

Author(s): Rosca, EV; Apostol, TV; **Chifiriuc, MC**; Pircalabioru, GG; Draghici, C; Socea, LI; Olaru, OT; Nitulescu, GM; Pahontu, EM; Hrubaru, M; Barbuceanu, SF

Source: FARMACIA **Volume:** 68 **Issue:** 3 **Pages:** 453-462

DOI: 10.31925/farmac.2020.3.10 **Published:** MAY-JUN 2020

ISSN: 0014-8237

eISSN: 2065-0019

Synthesis and Characterization of New Fluoro/Trifluoromethyl-Substituted Acylthiourea Derivatives with Promising Activity against Planktonic and Biofilm-Embedded Microbial Cells

Author(s): Limban, C; Nuta, DC; Missir, AV; Roman, R; Caproiu, MT; Dumitrascu, F; Pintilie, L; Stefaniu, A; **Chifiriuc, MC**; Popa, M; Zarafu, I; Arsene, AL; Pirvu, CED; Udeanu, DI; Papacocca, IR

Source: PROCESSES **Volume:** 8 **Issue:** 5 **Article Number:** 503

DOI: 10.3390/pr8050503 **Published:** MAY 2020

eISSN: 2227-9717

Antibiotic resistance determinants of Acinetobacter baumannii strains isolated from nosocomial infections

Author(s): Haitham, AN; Ali, A; **Chifiriuc, MC**; Mihaescu, G; Alshwaikh, RMA; Mohsin, S; Mohammed, HB; Pircalabioru, GG; Gheorghe, I

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 25 **Issue:** 3 **Pages:** 1658-1665

DOI: 10.25083/rbl/25.3/1658.1665 **Published:** MAY-JUN 2020

Synthesis, physico-chemical characterization and bioevaluation of Ni(II), Pd(II), and Pt(II) complexes with 1-(o-tolyl)biguanide: Antimicrobial and antitumor studies

Author(s): Nuta, I; Badea, M; **Chifiriuc, MC**; Bleotu, C; Popa, M; Daniliuc, CG; Olar, R
Source: APPLIED ORGANOMETALLIC CHEMISTRY **Volume:** 34 **Issue:** 9 **Article Number:** e5807
DOI: 10.1002/aoc.5807 **Published:** SEP 2020
ISSN: 0268-2605
eISSN: 1099-0739

Antimicrobial and Cytocompatible Bovine Hydroxyapatite-Alumina-Zeolite Composite Coatings Synthesized by Pulsed Laser Deposition from Low-Cost Sustainable Natural Resources

Author(s): Popescu-Pelin, G; Ristoscu, C; Duta, L; Stan, GE; Pasuk, I; Tite, T; Stan, MS; Bleotu, C; Popa, M; **Chifiriuc, MC**; Oktar, FN; Nicarel, A; Mihailescu, IN
Source: ACS SUSTAINABLE CHEMISTRY & ENGINEERING **Volume:** 8 **Issue:** 10
Pages: 4026-4036 **DOI:** 10.1021/acssuschemeng.9b05031 **Published:** MAR 16 2020
ISSN: 2168-0485

The impact of climate change on agricultural productivity in Romania. A country-scale assessment based on the relationship between climatic water balance and maize yields in recent decades

Author(s): Pravalie, R; Sirodoev, I; Patriche, C; Rosca, B; Piticar, A; Bandoc, G; Sfica, L; Tiscovschi, A; Dumitrascu, M; **Chifiriuc, C**; Manoiu, V; Iordache, S
Source: AGRICULTURAL SYSTEMS **Volume:** 179 **Article Number:** 102767
DOI: 10.1016/j.agry.2019.102767 **Published:** MAR 2020
ISSN: 0308-521X
eISSN: 1873-2267

In Vitro Adherence and Anti-pathogens Effect of a Co-culture of Lactobacillus Plantarum and Lactobacillus Casei Cultivated in a Minimal Media Supplemented with Aloe Vera

Author(s): Boev, M; Bahrim, G; **Chifiriuc, M**; Ditu, L
Source: JOURNAL OF CLINICAL GASTROENTEROLOGY **Volume:** 54 **Pages:** S30-S31
Supplement: 1 **Published:** FEB 2020
ISSN: 0192-0790
eISSN: 1539-2031

Aminopropyl-silica functionalized with halogen-reactive compounds for antimicrobial applications

Author(s): Zarafu, I; Al Taweel, AAJ; Limban, C; Popa, M; Marutescu, L; **Chifiriuc, MC**; Pircalabioru, GG; Culita, D; Ghica, C; Ionita, P
Source: MATERIALS CHEMISTRY AND PHYSICS **Volume:** 241 **Article Number:** 122353
DOI: 10.1016/j.matchemphys.2019.122353 **Published:** FEB 1 2020
ISSN: 0254-0584
eISSN: 1879-3312

Synthesis, physico-chemical characterization, antimicrobial activity and toxicological features of Ag-ZnO nanoparticles

Author(s): Burlibasa, L; **Chifiriuc, MC**; Lungu, MV; Lungulescu, EM; Mitrea, S; Sbarcea, G; Popa, M; Marutescu, L; Constantin, N; Bleotu, C; Hermenean, A
Source: ARABIAN JOURNAL OF CHEMISTRY **Volume:** 13 **Issue:** 2 **Pages:** 4180-4197
DOI: 10.1016/j.arabjc.2019.06.015 **Published:** FEB 2020
ISSN: 1878-5352
eISSN: 1878-5379

Multifunctional Hydroxyapatite Coated with Artemisia absinthium Composites

Author(s): Raita, MS; Iconaru, SL; Groza, A; Cimpeanu, C; Predoi, G; Ghegoiu, L; Badea, ML; **Chifiriuc, MC**; Marutescu, L; Trusca, R; Furnaris, CF; Turculeț, CS; Enache, DV; Predoi, D
Source: MOLECULES **Volume:** 25 **Issue:** 2 **Article Number:** 413
DOI: 10.3390/molecules25020413 **Published:** JAN 2 2020
eISSN: 1420-3049

Design, Synthesis and In Vitro Characterization of Novel Antimicrobial Agents Based on 6-Chloro-9H-carbazol Derivatives and 1,3,4-Oxadiazole Scaffolds

Author(s): Telehoiu, ATB; Nuta, DC; Caproiu, MT; Dumitrascu, F; Zarafu, I; Ionita, P; Badiceanu, CD; Avram, S; **Chifiriuc, MC**; Bleotu, C; Limban, C
Source: MOLECULES **Volume:** 25 **Issue:** 2 **Article Number:** 266
DOI: 10.3390/molecules25020266 **Published:** JAN 2 2020
eISSN: 1420-3049

Do wastewater treatment plants increase antibiotic resistant bacteria or genes in the environment? Protocol for a

systematic review

Author(s): Rodriguez-Molina, D; Mang, P; Schmitt, H; **Chifiriuc, MC**; Radon, K; Wengenroth, L

Source: SYSTEMATIC REVIEWS **Volume:** 8 **Issue:** 1 **Article Number:** 304

DOI: 10.1186/s13643-019-1236-9 **Published:** DEC 5 2019

eISSN: 2046-4053

Preparations of Silver/Montmorillonite Biocomposite Multilayers and Their Antifungal Activity

Author(s): Iconaru, SL; Groza, A; Stan, GE; Predoi, D; Gaiaschi, S; Trusca, R; **Chifiriuc, CM**; Marutescu, L; Tite, T; Stanciu, GA; Hristu, R; Ghegoiu, L; Badea, ML; Turculet, CS; Ganciu, M; Chapon, P

Source: COATINGS **Volume:** 9 **Issue:** 12 **Article Number:** 817

DOI: 10.3390/coatings9120817 **Published:** DEC 2019

eISSN: 2079-6412

Design, Synthesis and Biological Evaluation of New Piperazin-4-yl-(acetyl-thiazolidine-2,4-dione) Norfloxacin Analogues as Antimicrobial Agents

Author(s): Marc, G; Aranciu, C; Oniga, SD); Vlase, L; Pirnau, A; Nadas, GC; Novac, CS; Matei, IA (Matei, Ioana Adriana); **Chifiriuc, MC**; Marutescu, L; Oniga, O (Oniga, Ovidiu)

Source: MOLECULES **Volume:** 24 **Issue:** 21 **Article Number:** 3959

DOI: 10.3390/molecules24213959 **Published:** NOV 2019

eISSN: 1420-3049

Fluorescent coumarin-modified mesoporous SBA-15 nanocomposite: Physico-chemical characterization and interaction with prokaryotic and eukaryotic cells

Author(s): Tudose, M; Culita, DC; Voicescu, M; Musuc, AM); Kuncser, AC; Bleotu, C; Popa, M; Marutescu, L; **Chifiriuc, MC**; Nicolescu, M; Deleanu, C

Source: MICROPOROUS AND MESOPOROUS MATERIALS **Volume:** 288 **Article Number:** 109583

DOI: 10.1016/j.micromeso.2019.109583 **Published:** NOV 1 2019

ISSN: 1387-1811

eISSN: 1873-3093

Self-assembled zinc oxide hierarchical structures with enhanced antibacterial properties from stacked chain-like zinc oxalate compounds

Author(s): Patrinoiu, G; Dumitru, R; Culita, DC; Munteanu, C; Birjega, R; Calderon-Moreno, JM; Cucos, A; Pelinescu, D; **Chifiriuc, MC**; Bleotu, C; Carp, O

Source: JOURNAL OF COLLOID AND INTERFACE SCIENCE **Volume:** 552 **Pages:** 258-270

DOI: 10.1016/j.jcis.2019.05.051 **Published:** SEP 15 2019

ISSN: 0021-9797

eISSN: 1095-7103

Molecular characterization based on Internal Transcribed Spacer (ITS) marker sequence of fungal strains isolated from heritage ethnographic textiles

Author(s): Radulescu, HC; Giworghe, I; Gradisteanu, G; Ispas, A; Popescu, C; Rosu, G; **Chifiriuc, MC**; Lazar, V

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 24 **Issue:** 5 **Pages:** 906-912

DOI: 10.25083/rbl/24.5/906.912 **Published:** SEP-OCT 2019

ISSN: 1224-5984

Peripheral immune cell markers in children with recurrent respiratory infections in the absence of primary immunodeficiency

Author(s): Munteanu, AN; Surcel, M; Huica, RI; Isvoranu, G; Constantin, C; Pirvu, IR; **Chifiriuc, C**; Ulmeanu, C; Ursaciuc, C; Neagu, M

Source: EXPERIMENTAL AND THERAPEUTIC MEDICINE **Volume:** 18 **Issue:** 3

Pages: 1693-1700 **DOI:** 10.3892/etm.2019.7714 **Published:** SEP 2019

ISSN: 1792-0981

eISSN: 1792-1015

Reduced graphene oxide/TiO₂ nanocomposites coating of cotton fabrics with antibacterial and self-cleaning properties

Author(s): Stan, MS; Nica, IC; Popa, M; **Chifiriuc, MC**; Iordache, O; Dumitrescu, I; Diamandescu, L; Dinischiotu, A

Source: JOURNAL OF INDUSTRIAL TEXTILES **Volume:** 49 **Issue:** 3 **Pages:** 277-293

DOI: 10.1177/1528083718779447 **Published:** SEP 2019

ISSN: 1528-0837

eISSN: 1530-8057

Electrospun Polyethylene Terephthalate Nanofibers Loaded with Silver Nanoparticles: Novel Approach in Anti-

Infective Therapy

Author(s): Grumezescu, AM; Stoica, AE; Dima-Balcescu, MS; Chircov, C; Gharbia, S; Balta, C; Rosu, M; Herman, H; Holban, AM; Ficai, A; Vasile, BS; Andronescu, E; **Chifiriuc, MC**; Hermenean, A

Source: JOURNAL OF CLINICAL MEDICINE **Volume:** 8 **Issue:** 7 **Article Number:** 1039

DOI: 10.3390/jcm8071039 **Published:** JUL 2019

eISSN: 2077-0383

Evaluating the biological potential of some new cobalt (II) complexes with acrylate and benzimidazole derivatives

Author(s): Vlaicu, ID; Olar, R; Maxim, C; **Chifiriuc, MC**; Bleotu, C; Stanica, N; Scaeteanu, GV; Dulea, C; Avram, S; Badea, M

Source: APPLIED ORGANOMETALLIC CHEMISTRY **Volume:** 33 **Issue:** 7 **Article Number:** e4976

DOI: 10.1002/aoc.4976 **Published:** JUL 2019

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eISSN: 1099-0739

PLGA-GENTAMICIN BIOCOMPOSITE MATERIALS WITH POTENTIAL ANTIMICROBIAL APPLICATIONS IN ORTHOPEDICS

Author(s): Ciocilteu, MV; Podgoreanu, P; Delcaru, C; **Chifiriuc, MC**; Manda, CV; Bitu, A; Popescu, M; Amzoiu, E; Croitoru, O; Bleotu, C; Bostan, M; Neamtu, J

Source: FARMACIA **Volume:** 67 **Issue:** 4 **Pages:** 580-586

DOI: 10.31925/farmacia.2019.4.4 **Published:** JUL-AUG 2019

ISSN: 0014-8237

eISSN: 2065-0019

Synthesis and Antimicrobial Assessment of Some New 2-(Thiazol-5-yl)-1,3,4-oxadiazoles

Author(s): Araniciu, C; Oniga, SD; Stoica, CI; **Chifiriuc, MC**; Popa, M; Vlase, L; Palage, M; Oniga, O

Source: REVISTA DE CHIMIE **Volume:** 70 **Issue:** 6 **Pages:** 1996-1999 **Published:** JUN 2019

ISSN: 0034-7752

Peppermint Essential Oil-Doped Hydroxyapatite Nanoparticles with Antimicrobial Properties

Author(s): Badea, ML; Iconaru, SL; Groza, A; **Chifiriuc, MC**; Beuran, M; Predoi, D

Source: MOLECULES **Volume:** 24 **Issue:** 11 **Article Number:** 2169

DOI: 10.3390/molecules24112169 **Published:** JUN 1 2019

eISSN: 1420-3049

In vitro antimicrobial efficacy of laser exposed chlorpromazine against Gram-positive bacteria in planktonic and biofilm growth state

Author(s): Tozar, T; Nastasa, V; Stoicu, A; **Chifiriuc, MC**; Popa, M; Kamerzan, C; Pascu, ML

Source: MICROBIAL PATHOGENESIS **Volume:** 129 **Pages:** 250-256

DOI: 10.1016/j.micpath.2019.02.012 **Published:** APR 2019

ISSN: 0882-4010

Eco-friendly synthesized spherical ZnO materials: Effect of the core-shell to solid morphology transition on antimicrobial activity

Author(s): Patrinoiu, G; Hussien, MD; Calderon-Moreno, JM; Atkinson, I; Musuc, AM; Ion, RN; Cimpean, A; **Chifiriuc, MC**; Carp, O

Source: MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS **Volume:** 97 **Pages:** 438-450

DOI: 10.1016/j.msec.2018.12.063 **Published:** APR 2019

ISSN: 0928-4931

Thermal, spectral and biological characterisation of copper(II) complexes with isoniazid-based hydrazones

Author(s): Zarafu, I; Badea, M; Ionita, G; **Chifiriuc, MC**; Bleotu, C; Popa, M; Ionita, P; Tatibouet, A; Olar, R

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 136 **Issue:** 5 **Pages:** 1977-1987

DOI: 10.1007/s10973-018-7853-z **Published:** JUN 2019

ISSN: 1388-6150

eISSN: 1588-2926

Novel hydrogels based on collagen and ZnO nanoparticles with antibacterial activity for improved wound dressings

Author(s): Neacsu, IA; Melente, AE; Holban, AM; Ficai, A; Ditu, LM; Kamerzan, CM; Tihauan, BM; Nicoara, AI; Bezirtzoglou, E; **Chifiriuc, MC**; Pircalabioru, GG

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 24 **Issue:** 2 **Pages:** 317-323

DOI: 10.25083/rbl/24.2/317.323 **Published:** MAR-APR 2019

ISSN: 1224-5984

Influence of Ag, Au and Pd noble metals doping on structural, optical and antimicrobial properties of zinc oxide and titanium dioxide nanomaterials

Author(s): Pathak, TK; Kroon, RE; Craciun, V; Popa, M; **Chifiriuc, MC**; Swart, HC

Source: HELIYON **Volume:** 5 **Issue:** 3 **Article Number:** e01333

DOI: 10.1016/j.heliyon.2019.e01333 **Published:** MAR 2019

ISSN: 2405-8440

Successful Release of Voriconazole and Flavonoids from MAPLE Deposited Bioactive Surfaces

Author(s): Negut, I; Visan, AI; Popescu, C; Cristescu, R; Ficai, A; Grumezescu, AM; **Chifiriuc, MC**; Boehm, RD; Yamaleyeva, D; Taylor, M; Narayan, RJ; Chrisey, DB

Source: APPLIED SCIENCES-BASEL **Volume:** 9 **Issue:** 4 **Article Number:** 786

DOI: 10.3390/app9040786 **Published:** FEB 2 2019

eISSN: 2076-3417

Multifunctional ZnO materials prepared by a versatile green carbohydrate assisted combustion method for environmental remediation applications

Author(s): Ene, CD; Patrinoiu, G; Munteanu, C; Ene, R; **Chifiriuc, MC**; Carp, O

Source: CERAMICS INTERNATIONAL **Volume:** 45 **Issue:** 2 **Pages:** 2295-2302

DOI: 10.1016/j.ceramint.2018.10.144 **Part:** A **Published:** FEB 1 2019

ISSN: 0272-8842

eISSN: 1873-3956

Gradient multifunctional biopolymer thin film assemblies synthesized by combinatorial MAPLE

Author(s): Mihailescu, N; Haskoylu, ME; Ristoscu, C; Bostan, MS; Sopronyi, M; Eroglu, MS; **Chifiriuc, MC**; Mustaciosu, CC; Axente, E; Oner, ET; Mihailescu, IN

Source: APPLIED SURFACE SCIENCE **Volume:** 466 **Pages:** 628-636

DOI: 10.1016/j.apsusc.2018.10.077 **Published:** FEB 1 2019

ISSN: 0169-4332

eISSN: 1873-5584

Structure-grain size-synthesis route of silver nanoparticles: a correlation with the cytotoxic effect

Author(s): Vasile, OR; Andronescu, E; Trusca, R; Vasile, E; Holban, AM; **Chifiriuc, MC**; Iordache, F; Maniu, H; Bleotu, C; Neacsu, IA; Vasile, BS

Source: ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY

Volume: 60 **Issue:** 2 **Pages:** 617-628 **Published:** 2019 **ISSN:** 1220-0522

Design, Synthesis and Biopharmacological Profile Evaluation of New 2-((4-Chlorophenoxy)Methyl)-N-(Arylcarbamothioyl)Benzamides with Broad Spectrum Antifungal Activity

Author(s): Limban, C ; Ditu, LM ; Marutescu, L ; Missir, AV; **Chifiriuc, MC**; Caproiu, MT ; Morusciag, L ; Chirita, C ; Udrea, AM ; Nuta, DC ; Avram, S

Source: CURRENT ORGANIC CHEMISTRY **Volume:** 23 **Issue:** 12 **Pages:** 1365-1377

DOI: 10.2174/1385272823666190621162950 **Published:** 2019

ISSN: 1385-2728

eISSN: 1875-5348

Snapshot of Phylogenetic Groups, Virulence, and Resistance Markers in Escherichia coli Uropathogenic Strains Isolated from Outpatients with Urinary Tract Infections in Bucharest, Romania

Author(s): Cristea, VC; Gheorghe, I; Barbu, IC; Popa, LI; Ispas, B; Grigore, GA; Bucatariu, I; Popa, GL; Angelescu, MC ; Velican, A ; Marutescu, L; Popa, M; **Chifiriuc, MC** ; Popa, IM

Source: BIOMED RESEARCH INTERNATIONAL **Volume:** 2019 **Article Number:** 5712371

DOI: 10.1155/2019/5712371 **Published:** 2019

ISSN: 2314-6133

eISSN: 2314-6141

Microbiota signatures in type-2 diabetic patients with chronic kidney disease - A Pilot Study

Author(s): Gradisteanu, GP; Stoica, RA; Petcu, L; Picu, A; Suceveanu, AP; Salmen, T; Stefan, DS; Serafinceanu, C; **Chifiriuc, MC**; Stoian, AP

Source: JOURNAL OF MIND AND MEDICAL SCIENCES **Volume:** 6 **Issue:** 1 **Pages:** 130-136

Article Number: 20 **DOI:** 10.22543/7674.61.P130136 **Published:** 2019

ISSN: 2392-7674

eISSN: 1588-2926

Zinc Oxide Spherical-Shaped Nanostructures: Investigation of Surface Reactivity and Interactions with Microbial and Mammalian Cells

Author(s): Visinescu, D; Hussien, MD; Moreno, JC; Negrea, R; Birjega, R; Somacescu, S; Ene, CD; **Chifiriuc, MC**; Popa, M; Stan, MS; Carp, O

Source: LANGMUIR **Volume:** 34 **Issue:** 45 **Pages:** 13638-13651

DOI: 10.1021/acs.langmuir.8b02528 **Published:** NOV 13 2018

ISSN: 0743-7463

An enzyme-free hydrogen peroxide sensor for evaluation of probiotic potential of *Enterococcus faecium*

Author(s): Braik, M; Zamfir, LG; Rotariu, L; Curutiu, C; **Chifiriuc, MC**; Ben Ali, M; Bala, C

Source: SENSORS AND ACTUATORS B-CHEMICAL **Volume:** 273 **Pages:** 298-304

DOI: 10.1016/j.snb.2018.06.057 **Published:** NOV 10 2018

eISSN: 0925-4005

Comparative Analysis of the Native Microbiota in gammaCop Mutant versus Wild-Type Genetic Background of *Drosophila melanogaster*

Author(s): Barbu, IC; Ratiu, AC; Florescu, AM; **Chifiriuc, MC**; Ecovoiu, AA

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 23 **Issue:** 6 **Pages:** 14235-14243

DOI: 10.26327/RBL2018.243 **Published:** NOV-DEC 2018

ISSN: 1224-5984

N-(1-ADAMANTYLCARBAMOTHIOYL)BENZAMIDES: SYNTHESIS, BIOLOGICAL EVALUATION AND ADME PREDICTIONS

Author(s): Gurgu, H; Stefanescu, E; Nuta, DC; Caproiu, MT; Dumitrascu, F; **Chifiriuc, MC**; Bleotu, C; Nitulescu, GM; Radulescu, FS; Limban, C

Source: FARMACIA **Volume:** 66 **Issue:** 6 **Pages:** 963-971 **DOI:** 10.31925/FARMACIA.2018.6.6

Published: NOV-DEC 2018

ISSN: 0014-8237

eISSN: 2065-0019

The European Federation of Clinical Chemistry and Laboratory Medicine syllabus for postgraduate education and training for Specialists in Laboratory Medicine: version 5-2018

Author(s): Jassam, N; Lake, J; Dabrowska, M; Queralto, J; Rizos, D; Lichtinghagen, R; Baum, H; Ceriotti, F; O'Mullane, J; Homsak, E; Charilaou, C; Ohlson, M; Rako, I; Vitkus, D; Kovac, G; Verschuure, P; Racek, J; **Chifiriuc, MC**; Wieringa, G

Source: CLINICAL CHEMISTRY AND LABORATORY MEDICINE **Volume:** 56 **Issue:** 11 **Pages:** 1846-1863 **DOI:** 10.1515/ccm-2018-0344

Published: NOV 2018

ISSN: 1434-6621

eISSN: 1437-4331

Chemical composition, antimicrobial and antibiofilm efficacy of *C. limon* and *L. angustifolia* EOs and of their mixtures against *Staphylococcus epidermidis* clinical strains

Author(s): Danila, E; Moldovan, Z; Popa, M; **Chifiriuc, MC**; Kaya, AD; Kaya, MA

Source: INDUSTRIAL CROPS AND PRODUCTS **Volume:** 122 **Pages:** 483-492

DOI: 10.1016/j.indcrop.2018.06.019 **Published:** OCT 15 2018

ISSN: 0926-6690

eISSN: 1872-633X

Impact of *Pseudomonas aeruginosa* quorum sensing signaling molecules on adhesion and inflammatory markers in endothelial cells

Author(s): Curutiu, C; Iordache, F; Lazar, V; Pisoschi, AM; Pop, A; **Chifiriuc, MC**; Hoban, AM

Source: BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY **Volume:** 14 **Pages:** 2580-2588

DOI: 10.3762/bjoc.14.235 **Published:** OCT 5 2018

ISSN: 1860-5397

New N-(oxazolylmethyl)-thiazolidinedione Active against *Candida albicans* Biofilm: Potential Als Proteins Inhibitors

Author(s): Marc, G; Araniciu, C; Oniga, SD; Vlase, L; Pirnau, A; Duma, M; Marutescu, L; **Chifiriuc, MC**; Oniga, O

Source: MOLECULES **Volume:** 23 **Issue:** 10 **Article**

Number: 2522 **DOI:** 10.3390/molecules23102522 **Published:** OCT 2018

eISSN: 1420-3049

New biologically active mixed-ligand Co(II) and Ni(II) complexes of enrofloxacin

Author(s): Reiss, A; Cioatera, N; **Chifiriuc, MC**; Munteanu, G; Ganescu, A; Dabuleanu, I; Avram, G; Spinu, CI; Rotaru, P

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 134 **Issue:** 1 **Pages:** 527-541 **DOI:** 10.1007/s10973-018-6994-4

Published: OCT 2018

ISSN: 1388-6150

eISSN: 1588-2926

Thermal behaviour of some biological active perchlorate complexes with a triazolopyrimidine derivative

Author(s): Badea, M; Calu, L; Korosin, NC; David, IG; **Chifiriuc, MC**; Bleotu, C; Ionita, G; Silvestro, L; Maurer, M; Olar, R

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 134 **Issue:** 1 **Pages:** 665-

677 DOI: 10.1007/s10973-018-7134-x

Published: OCT 2018

ISSN: 1388-6150

eISSN: 1588-2926

Hybrid nanocarriers based on PLGA-vegetable oil: A novel approach for high lipophilic drug delivery

Author(s): Ghitman, J; Stan, R; Cecoltan, S; **Chifiriuc, MC**; Iovu, H)

Source: JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY Volume: 46

Pages: 162-172 DOI: 10.1016/j.jddst.2018.05.012 Published: AUG 2018

ISSN: 1773-2247

ZnO RADIAL MORPHOLOGIES WITH HIGH ANTI-BIOFILM AND ANTIBACTERIAL ACTIVITY OBTAINED BY A POLYMER-ASSISTED HYDROTHERMAL SYNTHESIS

Author(s): Stan, A; Barjega, R; **Chifiriuc, CM**; Carp, O

Source: REVUE ROUMAINE DE CHIMIE Volume: 63 Issue: 7-8 Pages: 719+

Published: JUL-AUG 2018

ISSN: 0035-3930

ANTI-BIOFILM ACTIVITY EVALUATION AND MOLECULAR DOCKING STUDY OF SOME 2(3-PYRIDYL)-THIAZOLYL-1,3,4-OXADIAZOLINES

Author(s): Araniciu, C; Oniga, O; Marc, G; Palage, MD; Marutescu, L; **Chifiriuc, MC**; Stoica, CI; Ionut, I; Oniga, SD

Source: FARMACIA Volume: 66 Issue: 4 Pages: 627-634

DOI: 10.31925/farmacia.2018.4.11 Published: JUL-AUG 2018

ISSN: 0014-8237

eISSN: 2065-0019

New bio-active, antimicrobial and adherent coatings of nanostructured carbon double-reinforced with silver and silicon by Matrix-Assisted Pulsed Laser Evaporation for medical applications

Author(s): Duta, L; Ristoscu, C; Stan, GE; Husanu, MA; Besleaga, C; **Chifiriuc, MC**; Lazar, V; Bleotu, C; Miculescu, F; Mihailescu, N; Axente, E; Badiceanu, M; Bociaga, D; Mihailescu, IN

Source: APPLIED SURFACE SCIENCE Volume: 441 Pages: 871-883

DOI: 10.1016/j.apsusc.2018.02.047 Published: MAY 31 2018

ISSN: 0169-4332

eISSN: 1873-5584

Synthesis, spectroscopic characterization, DFT study and antimicrobial activity of novel alkylaminopyrazole derivatives

Author(s): Zalaru, C; Dumitrascu, F; Draghici, C; Tarcomnicu, I; Tatia, R; Moldovan, L; **Chifiriuc, MC**; Lazar, V; Marinescu, M; Nitulescu, GM; Ferbinteanu, M

Source: JOURNAL OF MOLECULAR STRUCTURE Volume: 1156 Pages: 12-21

DOI: 10.1016/j.molstruc.2017.11.073 Published: MAR 15 2018

ISSN: 0022-2860

eISSN: 1872-8014

New metal(II) complexes with ceftazidime Schiff base

Author(s): Reiss, A; **Chifiriuc, MC**; Amzoiu, E; Cioatera, N; Dabuleanu, I; Rotaru, P (Rotaru, Petre)

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 131 Issue: 3 Pages: 2073-2085 DOI: 10.1007/s10973-017-6832-0

Published: MAR 2018

ISSN: 1388-6150

eISSN: 1588-2926

NEW DERIVATIVES OF 2-THIOPHENE CARBOXYLIC ACID: SYNTHESIS, STRUCTURE AND ANTIMICROBIAL STUDIES

Author(s): Badiceanu, CD; Nuta, DC; Missir, AV; Hrubaru, M; Delcaru, C; Ditu, LM; **Chifiriuc, MC**; Limban, C

Source: FARMACIA Volume: 66 Issue: 2 Pages: 237-242 Published: MAR-APR 2018

ISSN: 0014-8237

eISSN: 2065-0019

Synthesis, Structural Characterization, Antimicrobial Activity, and In Vitro Biocompatibility of New Unsaturated Carboxylate Complexes with 2,2-Bipyridine

Author(s): Scaeteanu, GV; **Chifiriuc, MC**; Bleotu, C; Kamerzan, C; Marutescu, L; Daniliuc, CG; Maxim, C; Calu, L; Olar, R; Badea, M

Source: MOLECULES Volume: 23 Issue: 1 Article Number: 157

DOI: 10.3390/molecules23010157 **Published:** JAN 2018
ISSN: 1420-3049

SYNTHESIS, STRUCTURAL, PHISICO-CHEMICAL CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY SCREENING OF NEW THIOUREA DERIVATIVES

Author(s): Badiceanu, CD; Nuta, DC; Missir, AV; Hrubaru, M; Delcaru, C; Ditu, LM; **Chifiriuc, MC**; Limban, C
Source: FARMACIA **Volume:** 66 **Issue:** 1 **Pages:** 149-156 **Published:** JAN-FEB 2018
ISSN: 0014-8237
eISSN: 2065-0019

Expression profiles of genes involved in mannose metabolism are modulated during experimental infection of *Drosophila melanogaster* males with *Pseudomonas aeruginosa*

Author(s): Mihalache, MR; Ratiu, AC; Neagu, A; Lazar, V; **Chifiriuc, MC**; Al Ecovoiu, A
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 23 **Issue:** 1 **Pages:** 13225-13234
Published: JAN-FEB 2018
ISSN: 1224-5984

Antioxidant and antifungal activity of Romanian propolis

Author(s): Stan, T; Teodor, ED; Gatea, F; **Chifiriuc, MC**; Lazar, V
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 6 **Pages:** 13116-13124
Published: NOV-DEC 2017
ISSN: 1224-5984

New 2-Phenylthiazoles as Potential Sortase A Inhibitors: Synthesis, Biological Evaluation and Molecular Docking

Author(s): Oniga, SD; Aranicu, C; Palage, MD; Popa, M; **Chifiriuc, MC**; Marc, G; Pirnau, A; Stoica, CI; Lagoudis, I; Dragoumis, T; Oniga, O
Source: MOLECULES **Volume:** 22 **Issue:** 11 **Article Number:** 1827
DOI: 10.3390/molecules22111827 **Published:** NOV 2017

Assessment the Activity of Some Enzymes and Antibiotic Substances Sensitivity on Pathogenic Bacteria Species

Author(s): Sarbu, I; Vassu, T; **Chifiriuc, MC**; Bucur, M; Stoica, I; Stefana, P; Rusu, E; Moldovan, H; Pelinescu, D
Source: REVISTA DE CHIMIE **Volume:** 68 **Issue:** 12 **Pages:** 3015-3021 **Published:** DEC 2017
ISSN: 0034-7752

Reduction of the clonogenic potential and collapse of the mitochondrial membrane potential in A-431 epidermoid carcinoma cell line induced by curcumin

Author(s): Ciolac, OA; Filippi, A; Maru, N; Popa, M; **Chifiriuc, MC**; Ganea, C; Mocanu, MM
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 6 **Pages:** 13068-13075
Published: NOV-DEC 2017
ISSN: 1224-5984

Beta-lactam and quinolone resistance markers in uropathogenic strains isolated from renal transplant recipients

Author(s): Trusca, BS; Gheorghe, I; Marutescu, L; Curutiu, C; Marinescu, F; Ghita, CM; Borcan, E; Tuica, L; Minciuna, V; Gherghin, HE; **Chifiriuc, MC**; Lazar, V
Source: REVISTA ROMANA DE MEDICINA DE LABORATOR **Volume:** 25 **Issue:** 4
Pages: 365-373 **DOI:** 10.1515/rmlm-2017-0033 **Published:** OCT 2017
ISSN: 1841-6624
eISSN: 2284-5623

Lipoic acid functionalized SiO₂@Ag nanoparticles. Synthesis, characterization and evaluation of biological activity

Author(s): Tudose, M; Culita, DC; Musuc, AM; Somacescu, S; Ghica, C; **Chifiriuc, MC**; Bleotu, C
Source: MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS **Volume:** 79 **Pages:** 499-506 **DOI:** 10.1016/j.msec.2017.05.083
Published: OCT 1 2017
ISSN: 0928-4931
eISSN: 1873-0191

Antimicrobial polycaprolactone/polyethylene glycol embedded lysozyme coatings of Ti implants for osteoblast functional properties in tissue engineering

Author(s): Visan, A; Cristescu, R; Stefan, N; Miroiu, M; Nita, C; Socol, M; Florica, C; Rasoga, O; Zgura, I; Sima, LE; Chiritoiu, M; **Chifiriuc, MC**; Holban, AM; Mihailescu, IN; Socol, G
Source: APPLIED SURFACE SCIENCE **Volume:** 417 **Special Issue:** SI **Pages:** 234-243
DOI: 10.1016/j.apsusc.2016.11.129 **Published:** SEP 30 2017

ISSN: 0169-4332
eISSN: 1873-5584

Prevalence of heavy metal and antibiotic resistance in bacterial isolates from wastewater and receiving aquatic environments

Author(s): Marinescu, F; **Chifiriuc, MC**; Marutescu, L; Ilie, M; Savin, I; Anghel, AM; Marcus, I; Tociu, C; Marcu, E
Source: BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY **Volume:** 7 **Issue:** 5
Pages: 2140-2144 **Published:** SEP 15 2017
ISSN: 2069-5837

Density functional theory molecular modeling and antimicrobial behaviour of selected 1,2,3,4,5,6,7,8-octahydroacridine-N(10)-oxides

Author(s): Marinescu, M; Cinteza, LO; Marton, GI; Marutescu, LG; **Chifiriuc, MC**; Constantinescu, C
Source: JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1144 **Pages:** 14-23
DOI: 10.1016/j.molstruc.2017.05.003 **Published:** SEP 15 2017
ISSN: 0022-2860
eISSN: 1872-8014

SYNERGIC BENEFITS OF ARONIA MELANOCARPA ANTHOCYANIN - RICH EXTRACTS AND ANTIBIOTICS USED FOR URINARY TRACT INFECTIONS

Author(s): Dorneanu, R; Cioanca, O; **Chifiriuc, O**; Albu, E; Tuchilus, C; Mircea, C; Salamon, I; Hancianu, M
Source: FARMACIA **Volume:** 65 **Issue:** 5 **Pages:** 778-783 **Published:** SEP-OCT 2017
ISSN: 0014-8237
eISSN: 2065-0019

ANTIBACTERIAL EFFICIENCY OF FIVE PROPOLIS EXTRACTS ON PLANKTONIC AND ADHERENT MICROBIAL STRAINS

Author(s): Hazem, A; Popescu, CV; Crisan, I; Popa, M; **Chifiriuc, MC**; Pircalabioru, GG; Lupuliasa, D
Source: FARMACIA **Volume:** 65 **Issue:** 5 **Pages:** 813-818 **Published:** SEP-OCT 2017
ISSN: 0014-8237
eISSN: 2065-0019

SYNTHESIS AND BIOLOGICAL EVALUATION OF NEW N-(2-DIMETHYLAMINOETHYL)-N-((UN)SUBSTITUTED PHENYL-2-(4-METHYL/METHOXY-PHENOXYMETHYL)BENZAMIDES

Author(s): Gurgu, H; Nuta, DC; Caproiu, MT; Draghici, C; **Chifiriuc, MC**; Missir, AV; Limban, C
Source: FARMACIA **Volume:** 65 **Issue:** 4 **Pages:** 494-500 **Published:** JUL-AUG 2017
ISSN: 0014-8237

Development and Biocompatibility Evaluation of Photocatalytic TiO₂/Reduced Graphene Oxide-Based Nanoparticles Designed for Self-Cleaning Purposes

Author(s): Nica, IC; Stan, MS; Popa, M; **Chifiriuc, MC**; Pircalabioru, GG; Lazar, V; Dumitrescu, I; Diamandescu, L; Feder, M; Baibarac, M; Cernea, M; Maraloiu, VA; Popescu, T; Dinischiotu, A
Source: NANOMATERIALS **Volume:** 7 **Issue:** 9 **Article Number:** 279
DOI: 10.3390/nano7090279 **Published:** SEP 2017
ISSN: 2079-4991

SYNTHESIS AND ANTIMICROBIAL ACTIVITY EVALUATION OF SOME NEW 2-(3-PYRIDIL)-THIAZOLYL-1,3,4-OXADIAZOLINES

Author(s): Oniga, SD; Araniciu, C; Stoica, CI; Palage, MD; Vlase, L; Pirnau, A; Marutescu, L; **Chifiriuc, MC**; Oniga, O
Source: FARMACIA **Volume:** 65 **Issue:** 4 **Pages:** 501-507 **Published:** JUL-AUG 2017
ISSN: 0014-8237
eISSN: 2065-0019

Synthesis, Physico-chemical Characterization, Crystal Structure and Influence on Microbial and Tumor Cells of Some Co(II) Complexes with 5,7-Dimethyl-1,2,4-triazolo[1,5-a]pyrimidine

Author(s): Marutescu, L; Calu, L; **Chifiriuc, MC**; Bleotu, C; Daniliuc, CG; Falcescu, D; Kamerzan, CM; Badea, M; Olar, R
Source: MOLECULES **Volume:** 22 **Issue:** 7 **Article Number:** 1233 **DOI:** 10.3390/molecules22071233 **Published:** JUL 2017
eISSN: 1420-3049

Optimized silicon reinforcement of carbon coatings by pulsed laser technique for superior functional biomedical

surfaces fabrication

Author(s): Mihailescu, IN; Bociaga, D; Popescu-Pelin, G; Stan, GE; Duta, L; Socol, G; **Chifiriuc, MC**; Bleotu, C; Lazar, V; Husanu, MA; Zgura, I; Miculescu, F; Negut, I; Hapenciuc, C

Source: BIOFABRICATION **Volume:** 9 **Issue:** 2 **Article Number:** 025029 **DOI:** 10.1088/1758-5090/aa7076 **Published:** JUN 1 2017

ISSN: 1758-5082

eISSN: 1758-5090

Host metabolic syndrome can disrupt the intestinal microbiota and promote the acquisition of resistance and virulence genes in Enterobacteriaceae stains

Author(s): Chelariu, M; Grosu, M; Gheorghe, I; Gradisteanu, G; Picu, A; Petcu, L; Popa, M; **Chifiriuc, MC**; Ditu, L; Lazar, V; Dimov, TV

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 3

Pages: 12643-12650 **Published:** MAY-JUN 2017

ISSN: 1224-5984

Antibiotic Resistance and Virulence Phenotypes of Recent Bacterial Strains Isolated from Urinary Tract Infections in Elderly Patients with Prostatic Disease

Author(s): Delcaru, C; Podgoreanu, P; Alexandru, I ; Popescu, N; Marutescu, L; Bleotu, C; Mogosanu, GD;

Chifiriuc, MC; Gluck, M; Lazar, V

Source: PATHOGENS **Volume:** 6 **Issue:** 2 **Article**

Number: 22 **DOI:** 10.3390/pathogens6020022 **Published:** JUN 2017

ISSN: 2076-0817

Antimicrobial performance of nanostructured silica-titania sieves loaded with izohidrafural against microbial strains isolated from urinary tract infections

Author(s): Al Tameemi, MBM; Stan, R; Prisacari, V; Voicu, G; Popa, M; **Chifiriuc, MC**; Ott, C; Marton, G; Meghea, A

Source: COMPRES RENDUS CHIMIE **Volume:** 20 **Issue:** 5 **Pages:** 475-483

DOI: 10.1016/j.crci.2016.09.007 **Published:** MAY 2017

ISSN: 1631-0748

eISSN: 1878-1543

Density functional theory molecular modeling, chemical synthesis, and antimicrobial behaviour of selected benzimidazole derivatives

Author(s): Marinescu, M; Tudorache, DG; Marton, GI; Zalaru, CM; Popa, M; **Chifiriuc, MC**; Stavarache, CE; Constantinescu, C

Source: JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1130 **Pages:** 463-471

DOI: 10.1016/j.molstruc.2016.10.066 **Published:** FEB 15 2017

ISSN: 0022-2860

eISSN: 1872-8014

Laser deposition of poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) - lysozyme microspheres based coatings with anti-microbial properties

Author(s): Grumezescu, V; Holban, AM; Sima, LE; Chiritoiu, MB; Chiritoiu, GN; Grumezescu, AM; Ivan, L; Safciuc, F; Antohe, F; Florica, C; Luculescu, CR; **Chifiriuc, MC**; Socol, G

Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 521 **Issue:** 1-2

Pages: 184-195 **DOI:** 10.1016/j.ijpharm.2017.01.069 **Published:** APR 15 2017

ISSN: 0378-5173

eISSN: 1873-3476

The influence of nutrient culture media on Escherichia coli adhesion and biofilm formation ability

Author(s): Bleotu, C; **Chifiriuc, MC**; Mircioaga, D; Sandulescu, O; Aldea, IM; Banu, O; Ion, D; Diaconu, CC; Marinescu, F; Lazar, V

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 2

Pages: 12483-12491 **Published:** MAR-APR 2017

ISSN: 1224-5984

Thermal behaviour of some biologically active species based on complexes with a triazolopyrimidine pharmacophore

Author(s): Olar, R; Calu, L; Badea, M; **Chifiriuc, MC**; Bleotu, C; Velescu, B; Stoica, O; Ionita, G; Stanica, N; Silvestro, L; Dulea, C; Uivarosi, V

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 127 **Issue:** 1 **Pages:** 685-

696 **DOI:** 10.1007/s10973-016-5425-7

Published: JAN 2017

ISSN: 1388-6150

Spectral, magnetic, thermal and biological studies on Ca(II) and Cu(II) complexes with a novel crowned Schiff base

Author(s): Zarafu, I; Badea, M; Ionita, G; Ionita, P; Paun, A; Bucur, M; **Chifiriuc, MC**; Bleotu, C; Olar, R

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 127 **Issue:** 2 **Pages:** 1511-1521 **DOI:** 10.1007/s10973-016-5573-9

Published: FEB 2017

ISSN: 1388-6150

eISSN: 1588-2926

Lipoic Acid Gold Nanoparticles Functionalized with Organic Compounds as Bioactive Materials

Author(s): Turcu, I; Zarafu, I; Popa, M; **Chifiriuc, MC**; Bleotu, C; Culita, D; Ghica, C; Ionita, P

Source: NANOMATERIALS **Volume:** 7 **Issue:** 2 **Article Number:** 43 **DOI:** 10.3390/nano7020043

Published: FEB 2017

eISSN: 2079-4991

Interaction of New-Developed TiO₂-Based Photocatalytic Nanoparticles with Pathogenic Microorganisms and Human Dermal and Pulmonary Fibroblasts

Author(s): Nica, IC; Stan, MS; Popa, M; **Chifiriuc, MC**; Lazar, V; Pircalabioru, GG; Dumitrescu, I; Ignat, M; Feder, M; Tanase, LC; Mercioniu, I; Diamandescu, L; Dimischiotu, A

Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 18 **Issue:** 2

Article Number: 249 **DOI:** 10.3390/ijms18020249 **Published:** FEB 2017

ISSN: 1422-0067

Thermal behaviour of some novel biologically active complexes with a triazolopyrimidine pharmacophore

Author(s): Calu, L; Badea, M; Korosec, RC; Bukovec, P; Daniliuc, CG; **Chifiriuc, MC**; Marutescu, L; Ciulica, C; Serban, G; Olar, R

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

Volume: 127 **Issue:** 1 **Pages:** 697-708 **DOI:** 10.1007/s10973-016-5515-6 **Published:** JAN 2017

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eISSN: 1588-2926

Thermal behavior of new nickel(II) complexes with unsaturated carboxylates and heterocyclic N-donor ligands

Author(s): Olar, R; Vlaicu, ID; **Chifiriuc, MC**; Bleotu, C; Stanica, N; Scaeteanu, GV; Silvestro, L; Dulea, C; Badea, M

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 127 **Issue:** 1 **Pages:** 731-741 **DOI:** 10.1007/s10973-016-5445-3

Published: JAN 2017

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eISSN: 1588-2926

Seasonal monitoring of microbiological air contamination from a museum - a case study

Author(s): Scarlet, IP; Lazar, V; Stepa, R; **Chifiriuc, MC**; Ditu, LM; Haiducu, M

Edited by: Bondrea I; Simion C; Inta M

Source: 8TH INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION (MSE 2017) - TRENDS IN NEW INDUSTRIAL REVOLUTION **Book Series:** MATEC Web of

Conferences **Volume:** 121 **Article Number:** 11017

DOI: 10.1051/mateconf/201712111017 **Published:** 2017

ISSN: 2261-236X

Insight on thermal behaviour of new complexes of Ni(II), Cu(II) and Zn(II) with a bismacrocyclic ligand developed as biologically active species

Author(s): Badea, M; Bucur, C; **Chifiriuc, MC**; Bleotu, C; Grecu, MN; Lazar, V; Marinescu, D; Olar, R

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 127 **Issue:** 1 **Pages:** 487-497 **DOI:** 10.1007/s10973-016-5502-y

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eISSN: 1588-2926

Comparative evaluation of aggressiveness traits in staphylococcal strains from severe infections versus nasopharyngeal carriage

Author(s): Sandulescu, O; Bleotu, C; Matei, L; Streinu-Cercel, A; Oprea, M; Dragulescu, EC; **Chifiriuc, MC**; Rafila,

A; Pirici, D; Talapan, D; Dorobat, OM; Negut, AC; Otelea, D; Berciu, I; Ion, DA; Codita, I; Calistru, PI; Streinu-Cercel, A

Source: MICROBIAL PATHOGENESIS **Volume:** 102 **Pages:** 45-53

DOI: 10.1016/j.micpath.2016.11.006 **Published:** JAN 2017

STUDIES ON THE ANTIMYCOBACTERIAL ACTION OF A NOVEL COMPOUND OF THE THIADIAZOLE CLASS, 2-(PROPYL-THIO)-5H-[1,3,4]-THIADIAZOLE[2,3-B]-QUINAZOLINE-5-ONE

Author(s): Pogrebnoi, S; Chirita, C; Valicas, V; Macaev, F; **Chifiriuc, MC**; Kamerzan, C; Uncu, L; Uncu, A; Negres, S; Ionica, FE; Nicolescu, F; Marandiuc, IM; Stefanescu, E

Source: FARMACIA **Volume:** 65 **Issue:** 1 **Pages:** 69-74 **Published:** JAN-FEB 2017

ISSN: 0014-8237

Structural and Antimicrobial Evaluation of Silver Doped Hydroxyapatite- Polydimethylsiloxane Thin Layers

Author(s): Iconaru, SL; **Chifiriuc, MC**; Groza, A

Source: JOURNAL OF NANOMATERIALS **Volume:** 2017 **Article Number:** 7492515

DOI: 10.1155/2017/7492515 **Published:** 2017

ISSN: 1687-4110

eISSN: 1687-4129

Nanostructured Approaches for the Targeted Delivery of Antibiotics in Difficult Infections

Author(s): Curutiu, C; Grumezescu, V; **Chifiriuc, MC**; Huang, KS; Iordache, F; Lin, YM; Holban, AM

Source: CURRENT ORGANIC CHEMISTRY **Volume:** 21 **Issue:** 1 **Pages:** 45-52

DOI: 10.2174/1385272820666160510170450 **Published:** 2017

ISSN: 1385-2728

eISSN: 1875-5348

Fabrication of antimicrobial silver-doped carbon structures by combinatorial pulsed laser deposition

Author(s): Mihailescu, IN; Bociaga, D; Socol, G; Stan, GE; **Chifiriuc, MC**; Bleotu, C; Husanu, MA; Popescu-Pelin, G; Duta, L; Luculescu, CR; Negut, I; Hapenciuc, C; Besleaga, C; Zgura, I; Miculescu, F

Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 515 **Issue:** 1-2

Pages: 592-606 **DOI:** 10.1016/j.ijpharm.2016.10.041 **Published:** DEC 30 2016

ISSN: 0378-5173

eISSN: 1873-3476

Bacteriophage-driven inhibition of biofilm formation in Staphylococcus strains from patients attending a Romanian reference center for infectious diseases

Author(s): Negut, AC; **Chifiriuc, MC**; Sandulescu, O; Streinu-Cercel, A; Oprea, M; Dragulescu, EC; Gheorghe, I; Berciu, I; Coralia, B; Popa, M; Otelea, D; Talapan, D; Dorobat, O; Codita, I; Popa, MI; Streinu-Cercel, A

Source: FEMS MICROBIOLOGY LETTERS **Volume:** 363 **Issue:** 18 **Article Number:** fnw193

DOI: 10.1093/femsle/fnw193 **Published:** SEP 2016

ISSN: 0378-1097

Combinatorial MAPLE deposition of antimicrobial orthopedic maps fabricated from chitosan and biomimetic apatite powders

Author(s): Visan, A; Stan, GE; Ristoscu, C; Popescu-Pelin, G; Sopronyi, M; Besleaga, C; Luculescu, C; **Chifiriuc, MC**; Hussien, MD; Marsan, O; Kergourlay, E; Grossin, D; Brouillet, F; Mihailescu, IN

Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 511 **Issue:** 1 **Pages:** 505-515

DOI: 10.1016/j.ijpharm.2016.07.015 **Published:** SEP 10 2016

ISSN: 0378-5173

Innovative Self-Cleaning and Biocompatible Polyester Textiles Nano-Decorated with Fe-N-Doped Titanium Dioxide

Author(s): Nica, IC; Stan, MS; Dinischiotu, A; Popa, M; **Chifiriuc, MC**; Lazar, V; Pircalabioru, GG; Bezirtzoglou, E; Iordache, OG; Varzaru, E; Dumitrescu, I; Feder, M; Vasiliu, F; Mercioniu, I; Diamandescu, L

Source: NANOMATERIALS **Volume:** 6 **Issue:** 11 **Article Number:** 214

DOI: 10.3390/nano6110214 **Published:** NOV 2016

ISSN: 2079-4991

Biocompatible hybrid silica nanobiocomposites for the efficient delivery of anti-staphylococcal drugs

Author(s): Balaure, PC; Popa, RA; Grumezescu, AM; Voicu, G; Radulescu, M; Mogoanta, L; Balseanu, TA; Mogosanu, GD; **Chifiriuc, MC**; Bleotu, C; Holban, AM; Bolocan, A

Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 510 **Issue:** 2

Pages: 532-542 **DOI:** 10.1016/j.ijpharm.2016.03.037 **Published:** AUG 30 2016

ISSN: 0378-5173

Photocatalytic, Antimicrobial and Biocompatibility Features of Cotton Knit Coated with Fe-N-Doped Titanium Dioxide Nanoparticles

Author(s): Stan, MS; Nica, IC; Dinischiotu, A; Varzaru, E; Iordache, OG; Dumitrescu, I; Popa, M; **Chifiriuc, MC**; Pircalabioru, GG; Lazar, V; Bezirtzoglou, E; Feder, M; Diamandescu, L
Source: MATERIALS **Volume:** 9 **Issue:** 9 **Article Number:** 789
DOI: 10.3390/ma9090789 **Published:** SEP 2016
ISSN: 1996-1944

Norfloxacin delivery systems based on MCM-type silica carriers designed for the treatment of severe infections
Author(s): Deaconu, M; Pintilie, L; Vasile, E; Mitran, RA; Pircalabioru, GG; Matei, C; **Chifiriuc, MC**; Berger, D
Source: MATERIALS CHEMISTRY AND PHYSICS **Volume:** 238 **Article Number:** 121886
DOI: 10.1016/j.matchemphys.2019.121886 **Published:** DEC 1 2019
ISSN: 0254-0584
eISSN: 1879-3312

Biocompatible cephalosporin-hydroxyapatite-poly(lactic-co-glycolic acid)-coatings fabricated by MAPLE technique for the prevention of bone implant associated infections

Author(s): Radulescu, D; Grumezescu, V; Andronescu, E ; Holban, AM; Grumezescu, AM; Socol, G; Oprea, AE; Radulescu, M; Surdu, A; Trusca, R; Radulescu, R; **Chifiriuc, MC**; Stan, MS; Constanda, S; Dinischiotu, A
Source: APPLIED SURFACE SCIENCE **Volume:** 374 **Pages:** 387-396
DOI: 10.1016/j.apsusc.2016.02.072 **Published:** JUN 30 2016
ISSN: 0169-4332

Antimicrobial activity of biopolymeric thin films containing flavonoid natural compounds and silver nanoparticles fabricated by MAPLE: A comparative study

Author(s): Cristescu, R; Visan, A; Socol, G; Surdu, AV; Oprea, AE; Grumezescu, AM; **Chifiriuc, MC**; Boehm, RD; Yamaleyeva, D; Taylor, M; Narayan, RJ; Chrisey, DB
Source: APPLIED SURFACE SCIENCE **Volume:** 374 **Pages:** 290-296
DOI: 10.1016/j.apsusc.2015.11.252 **Published:** JUN 30 2016
ISSN: 0169-4332

Efficient transmission of IncFII(Y) and IncL plasmids and Klebsiella pneumoniae ST101 clone producing OXA-48, NDM-1 or OXA-181 in Bucharest hospitals

Author(s): Czobor, I; Novais, A; Rodrigues, C; **Chifiriuc, MC**; Mihaescu, G; Lazar, V; Peixe, L
Source: INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS **Volume:** 48 **Issue:** 2 **Pages:** 223-224
DOI: 10.1016/j.ijantimicag.2016.05.004 **Published:** AUG 2016
ISSN: 0924-8579
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Functionalized Antimicrobial Composite Thin Films Printing for Stainless Steel Implant Coatings

Author(s): Floroian, L; Ristoscu, C; Mihailescu, N; Negut, I; Badea, M; Ursutiu, D; **Chifiriuc, MC**; Urzica, I; Dyia, HM; Bleotu, C ; Mihailescu, IN
Source: MOLECULES **Volume:** 21 **Issue:** 6 **Article Number:** 740
DOI: 10.3390/molecules21060740 **Published:** JUN 2016
eISSN: 1420-3049

The European Federation of Clinical Chemistry and Laboratory Medicine syllabus for postgraduate education and training for Specialists in Laboratory Medicine: version 5 - 2018

Author(s): Jassam, N; Lake, J; Dabrowska, M; Queralto, J; Rizos, D; Lichtinghagen, R; Baum, H; Ceriotti, F; O'Mullane, J; Homsak, E; Charilaou, C; Ohlson, M; Rako, I; Vitkus, D; Kovac, G; Verschuure, P; Racek, J; **Chifiriuc, MC**; Wieringa, G
Source: BIOCHIMICA CLINICA **Volume:** 42 **Issue:** 3 **Pages:** 247-262
DOI: 10.19186/BC_2018.044 **Published:** SEP 2018
ISSN: 0393-0564

Phenotypic and genotypic assessment of Lactobacillus plantarum influence on Candida albicans fluconazole resistance

Author(s): Sarbu, I; Vassu, T; Stoica, I; Dascalu, L; **Chifiriuc, C**; Pelinescu, D
Source: ANNALS OF MICROBIOLOGY **Volume:** 66 **Issue:** 2 **Pages:** 817-823
DOI: 10.1007/s13213-015-1159-1 **Published:** JUN 2016
ISSN: 1590-4261
eISSN: 1869-2044

Silver Nanocoatings for Reducing the Exogenous Microbial Colonization of Wound Dressings

Author(s): Radulescu, M; Andronescu, E; Dolete, G; Popescu, RC; Fufa, O; **Chifiriuc, MC**; Mogoanta, L; Balseanu, TA; Mogosanu, GD; Grumezescu, AM; Holban, AM

Source: MATERIALS **Volume:** 9 **Issue:** 5 **Article Number:** 345

DOI: 10.3390/ma9050345 **Published:** MAY 2016

ISSN: 1996-1944

Bioactive ZnO Coatings Deposited by MAPLE-An Appropriate Strategy to Produce Efficient Anti-Biofilm Surfaces

Author(s): Oprea, AE; Pandel, LM; Dumitrescu, AM; Andronescu, E; Grumezescu, V; **Chifiriuc, MC**; Mogoanta, L; Balseanu, TA; Mogosanu, GD; Socol, G; Grumezescu, AM; Iordache, F; Maniu, H; Chirea, M; Holban, AM

Source: MOLECULES **Volume:** 21 **Issue:** 2 **Article Number:** 220

DOI: 10.3390/molecules21020220 **Published:** FEB 2016

ISSN: 1420-3049

Staphylococcus sp Involvement in Community Acquired Urinary Tract Infections

Author(s): Cristea, VC; Gheorghe, I; Neacsu, G; Galca, R; Czobor, I; Alexandru, I; **Chifiriuc, MC**; Lazar, V; Popa, MI

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 21 **Issue:** 2

Pages: 11413-11417 **Published:** MAR-APR 2016

ISSN: 1224-5984

Synthesis and Bioevaluation of the Antimicrobial Features of Some New Thiazolyl-azoles

Author(s): Oniga, S; Araniciu, C; Palage, M; Stoica, C; **Chifiriuc, MC**; Marutescu, L

Source: REVISTA DE CHIMIE **Volume:** 67 **Issue:** 3 **Pages:** 426-429 **Published:** MAR 2016

ISSN: 0034-7752

Structural, compositional, mechanical characterization and biological assessment of bovine-derived hydroxyapatite coatings reinforced with MgF₂ or MgO for implants functionalization

Author(s): Mihailescu, N; Stan, GE; Duta, L; **Chifiriuc, MC**; Bleotu, C; Sopronyi, M; Luculescu, C; Oktar, FN; Mihailescu, IN

Source: MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS **Volume:** 59 **Pages:** 863-874

DOI: 10.1016/j.msec.2015.10.078 **Published:** FEB 1 2016

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Tunable ZnO spheres with high anti-biofilm and antibacterial activity via a simple green hydrothermal route

Author(s): Patrinoiu, G; Calderon-Moreno, JM; **Chifiriuc, CM**; Saviuc, C; Birjega, R; Carp, O

Source: JOURNAL OF COLLOID AND INTERFACE SCIENCE **Volume:** 462 **Pages:** 64-74

DOI: 10.1016/j.jcis.2015.09.059 **Published:** JAN 15 2016

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HIGHLY BIOCOMPATIBLE MAGNETITE NANOPARTICLES FUNCTIONALIZED WITH CHITOSAN FOR IMPROVING THE EFFICIENCY OF ANTIBIOTICS

Author(s): Holban, AM; Grumezescu, V; Ficai, A; Grumezescu, AM; **Chifiriuc, MC**; Iordache, F; Andronescu, E

Source: UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE **Volume:** 78 **Issue:** 3 **Pages:** 47-58 **Published:** 2016

ISSN: 1454-2331

Antimicrobial coatings based on zinc oxide and orange oil for improved bioactive wound dressings and other applications

Author(s): Radulescu, M; Andronescu, E; Cirja, A; Holban, AM; Mogoanta, L; Balseanu, TA; Catalin, B; Neagu, TP; Lascar, I; Florea, DA; Grumezescu, AM; Ciubuca, B; Lazar, V; **Chifiriuc, MC**; Bolocan, A

Source: ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY

Volume: 57 **Issue:** 1 **Pages:** 107-114 **Published:** 2016

BIOLOGICAL STUDIES ON DEXTRIN COATED IRON OXIDE NANOPARTICLES

Author(s): Iconaru, SL; Turculeț, C; Le Coustumer, P; Bleotu, C; **Chifiriuc, MC**; Lazar, V; Surugiu, A; Badea, M; Iordache, FM; Soare, M; Prodan, AM

Source: ROMANIAN REPORTS IN PHYSICS **Volume:** 68 **Issue:** 4 **Pages:** 1536-1544

Published: 2016

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eISSN: 1841-8759

In Vitro Testing of Susceptibility to Endodontic Irrigants and Disinfectants of Bacterial Strains Isolated from Chronic Apical Periodontitis

Author(s): Cristea, AD; Preoteasa, CT; Popa, M; Marutescu, L; **Chifiriuc, MC**; Gheorghe, I; Lazar, V; Iliescu, AA; Perlea, P; Moldoveanu, GF; Suci, I

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 21 **Issue:** 1

Pages: 11217-11224 **Published:** JAN-FEB 2016

ISSN: 1224-5984

Biocompatible 3D Matrix with Antimicrobial Properties

Author(s): Ion, A; Andronescu, E; Radulescu, D; Radulescu, M; Iordache, F; Vasile, BS; Surdu, AV; Albu, MG; Maniu, H; **Chifiriuc, MC**; Grumezescu, AM; Holban, AM

Source: MOLECULES **Volume:** 21 **Issue:** 1 **Article Number:** 115

DOI: 10.3390/molecules21010115 **Published:** JAN 2016

eISSN: 1420-3049

Influence of Thermal Treatment on the Antimicrobial Activity of Silver-Doped Biological Apatite

Author(s): Popa, CL; Ciobanu, CS; Voicu, G; Vasile, E; **Chifiriuc, MC**; Iconaru, SL; Predoi, D

Source: NANOSCALE RESEARCH LETTERS **Volume:** 10 **Article Number:** 502

DOI: 10.1186/s11671-015-1211-x **Published:** DEC 29 2015

Enamel Based Composite Layers Deposited on Titanium Substrate with Antifungal Activity

Author(s): Iconaru, SL; Prodan, AM; Turculeț, CS; Beuran, M; Ghita, RV; Costescu, A; Groza, A; **Chifiriuc, MC**; Chapon, P; Gaiaschi, S; Hristu, R; Stanciu, GA; Trusca, R; Ganciu, M; Raita, SM; Vineticu, N; Ciobanu, CS

Source: JOURNAL OF SPECTROSCOPY **Volume:** 2016 **Article Number:** 4361051

DOI: 10.1155/2016/4361051 **Published:** 2016

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Author(s): Stoica, P; Rapa, M; **Chifiriuc, MC**; Lungu, M; Tatia, R; Coroiu, V; Vlad, G; Lazar, V

Source: ENVIRONMENTAL ENGINEERING AND MANAGEMENT

JOURNAL **Volume:** 14 **Issue:** 11 **Pages:** 2703-2711

DOI: 10.30638/eemj.2015.287 **Published:** NOV 2015

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Chemical Composition and Antipathogenic Activity of Artemisia annua Essential Oil from Romania

Author(s): Marinas, IC; Oprea, E; **Chifiriuc, MC**; Badea, IA; Buleandra, M; Lazar, V

Source: CHEMISTRY & BIODIVERSITY **Volume:** 12 **Issue:** 10 **Pages:** 1554-1564

DOI: 10.1002/cbdv.201400340 **Published:** OCT 2015

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Screening of Polyphenol Content and In vitro Studies of Antioxidant, Antibacterial and Cytotoxic Activities of Capsicum Annuum Extracts

Author(s): Ciulu-Costinescu, F; **Chifiriuc, MC**; Popa, M; Bleotu, C; Neamtu, J; Averis, LME; Bubulica, MV; Simionescu, A; Aldea, IM; Belu, I

Source: REVISTA DE CHIMIE **Volume:** 66 **Issue:** 9 **Pages:** 1261-1266 **Published:** SEP 2015

ISSN: 0034-7752

The phytotoxicity and antimicrobial activity of Amorpha fruticosa L. leaves extract

Author(s): Hovanet, MV; Marinas, IC; Dinu, M; Oprea, E; **Chifiriuc, MC**; Stavropoulou, E; Lazar, V

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 20 **Issue:** 4

Pages: 10670-10678 **Published:** JUL-AUG 2015

ISSN: 1224-5984

Antimicrobial Features of Organic Functionalized Graphene-Oxide with Selected Amines

Author(s): Zarafu, I; Turcu, I; Culita, DC; Petrescu, S; Popa, M; **Chifiriuc, MC**; Limban, C; Telehoiu, A; Ionita, P

Source: MATERIALS **Volume:** 11 **Issue:** 9 **Article Number:** 1704 **DOI:** 10.3390/ma11091704

Published: SEP 2018
eISSN: 1996-1944

Plastified polyvinyl chloride for antimicrobial medical device applications
Author(s): Grosu, E; Fica, A; Rapa, M; Zaharia, C; **Chifiriuc, C**; Ulinici, S; Jecu, L
Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS
Volume: 17 **Issue:** 7-8 **Pages:** 1139-1145 **Published:** JUL-AUG 2015
ISSN: 1454-4164
eISSN: 1841-7132

Stainless steel surface biofunctionalization with PMMA-bioglass coatings: compositional, electrochemical corrosion studies and microbiological assay
Author(s): Floroian, L; Samoila, C; Badea, M; Munteanu, D; Ristoscu, C; Sima, F; Negut, I; **Chifiriuc, MC**; Mihailescu, IN (Mihailescu, I. N.)
Source: JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE **Volume:** 26 **Issue:** 6 **Article Number:** 195 **DOI:** 10.1007/s10856-015-5527-y
Published: JUN 2015
ISSN: 0957-4530
eISSN: 1573-4838

Nanostructured mesoporous silica: new perspectives for fighting antimicrobial resistance
Author(s): Voicu, G; Dogaru, I; Melita, D; Mesterca, R; Spirescu, V; Stan, E; Tote, E; Mogoanta, L; Mogosanu, GD; Grumezescu, AM; Trusca, R; Vasile, E; Iordache, F; **Chifiriuc, MC**; Holban, AM
Source: JOURNAL OF NANOPARTICLE RESEARCH **Volume:** 17 **Issue:** 5 **Article Number:** 201
DOI: 10.1007/s11051-015-3004-7 **Published:** MAY 5 2015
ISSN: 1388-0764
eISSN: 1572-896X

Frequency and phenotypic virulence features of Streptococcus pyogenes strains isolated from throat carriage in Romanian population
Author(s): Ionescu, D; **Chifiriuc, MC**; Ionescu, B; Cristea, VC; Sacagiu, B; Duta, M; Neacsu, G; Gilca, R; Bleotu, C; Bezirtzoglou, E; Lazar, V
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 20 **Issue:** 3
Pages: 10470-10477 **Published:** MAY-JUN 2015
ISSN: 1224-5984

Fabrication and characterization of functionalized surfaces with 3-amino propyltrimethoxysilane films for anti-infective therapy applications
Author(s): Grumezescu, V; Andronescu, E; Holban, AM; Socol, G; Grumezescu, AM; Fica, A; Lazar, V; **Chifiriuc, MC**; Trusca, R; Iordache, F
Source: APPLIED SURFACE SCIENCE **Volume:** 336 **Pages:** 401-406
DOI: 10.1016/j.apsusc.2015.01.080 **Published:** MAY 1 2015
ISSN: 0169-4332

Microbial colonization of biopolymeric thin films containing natural compounds and antibiotics fabricated by MAPLE
Author(s): Cristescu, R; Surdu, AV; Grumezescu, AM; Oprea, AE; Trusca, R; Vasile, O; Dorcioman, G; Visan, A; Socol, G; Mihailescu, IN; Mihaiescu, D; Enculescu, M; **Chifiriuc, MC**; Boehm, RD; Narayan, RJ; Chrisey, DB
Source: APPLIED SURFACE SCIENCE **Volume:** 336 **Pages:** 234-239
DOI: 10.1016/j.apsusc.2014.11.145 **Published:** MAY 1 2015
ISSN: 0169-4332
eISSN: 1873-5584

SYNTHESIS, CHARACTERIZATION AND CYTOTOXICITY EVALUATION ON ZINC DOPED HYDROXYAPATITE IN COLLAGEN MATRIX
Author(s): Popa, CL; Bartha, CM; Albu, M; Guegan, R; Motelica-Heino, M; **Chifiriuc, MC**; Bleotu, C; Badea, ML; Antohe, S
Source: DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES **Volume:** 10 **Issue:** 2 **Pages:** 681-691 **Published:** APR-JUN 2015
ISSN: 1842-3582

Synthesis, spectral, thermal, magnetic and biological characterization of Co(II), Ni(II), Cu(II) and Zn(II) complexes with a Schiff base bearing a 1,2,4-triazole pharmacophore
Author(s): Calu, L; Badea, M; **Chifiriuc, MC**; Bleotu, C; David, GI; Ionita, G; Marutescu, L; Lazar, V; Stanica, N;

Soponaru, I; Marinescu, D; Olar, R

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

Volume: 120 **Issue:** 1 **Pages:** 375-386 **DOI:** 10.1007/s10973-014-3970-5 **Published:** APR 2015

ISSN: 1388-6150

Snapshot on carbapenemase-producing *Pseudomonas aeruginosa* and *Acinetobacter baumannii* in Bucharest hospitals reveals unusual clones and novel genetic surroundings for bla(OXA-23)

Author(s): Gheorghe, I; Novais, A; Grosso, F; Rodrigues, C; **Chifiriuc, MC**; Lazar, V; Peixe, L

Source: JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY **Volume:** 70 **Issue:** 4

Pages: 1016-1020 **DOI:** 10.1093/jac/dku527 **Published:** APR 2015

ISSN: 0305-7453

eISSN: 1460-2091

Carvone functionalized iron oxide nanostructures thin films prepared by MAPLE for improved resistance to microbial colonization

Author(s): Holban, AM; Andronescu, E; Grumezescu, V; Oprea, AE; Grumezescu, AM; Socol, G; **Chifiriuc, MC**; Lazar, V; Iordache, F

Source: JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY **Volume:** 73 **Issue:** 3

Special Issue: SI **Pages:** 605-611 **DOI:** 10.1007/s10971-014-3552-9 **Published:** MAR 2015

ISSN: 0928-0707

eISSN: 1573-4846

MAPLE fabricated magnetite@*Melissa officinalis* and poly lactic acid: chitosan coated surfaces with anti-staphylococcal properties

Author(s): Grumezescu, AM; Andronescu, E; Oprea, AE; Holban, AM; Socol, G; Grumezescu, V; **Chifiriuc, MC**; Iordache, F; Maniu, H

Source: JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY **Volume:** 73 **Issue:** 3

Special Issue: SI **Pages:** 612-619 **DOI:** 10.1007/s10971-014-3558-3 **Published:** MAR 2015

ISSN: 0928-0707

eISSN: 1573-4846

Fabrication of magnetite-based core-shell coated nanoparticles with antibacterial properties

Author(s): Grumezescu, AM; Cristescu, R; **Chifiriuc, MC**; Dorcioman, G; Socol, G; Mihailescu, IN; Mihaiescu, DE; Ficai, A; Vasile, OR; Enculescu, M; Chrisey, DB

Source: BIOFABRICATION **Volume:** 7 **Issue:** 1 **Article Number:** 015014

DOI: 10.1088/1758-5090/7/1/015014 **Published:** MAR 2015

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eISSN: 1758-5090

Efficiency of gentamicin loaded in bacterial polysaccharides microcapsules against intracellular Gram-positive and Gram-negative invasive pathogens

Author(s): Croitoru, CD; Mihaiescu, DE; **Chifiriuc, MC**; Bolocan, A; Bleotu, C; Grumezescu, AM; Saviuc, CM; Lazar, V; Curutiu, C

Source: ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY

Volume: 56 **Issue:** 4 **Pages:** 1417-1421 **Published:** 2015

ISSN: 1220-0522

Antimicrobial Activity Evaluation on Silver Doped Hydroxyapatite/Polydimethylsiloxane Composite Layer

Author(s): Ciobanu, CS; Groza, A; Iconaru, SL; Popa, CL; Chapon, P; **Chifiriuc, MC**; Hristu, R; Stanciu, GA; Negrila, CC; Ghita, RV; Ganciu, M; Predoi, D

Source: BIOMED RESEARCH INTERNATIONAL **Volume:** 2015 **Article Number:** 926513

DOI: 10.1155/2015/926513 **Published:** 2015

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Biocompatible hydrodispersible magnetite nanoparticles used as antibiotic drug carriers

Author(s): Bolocan, A; Mihaiescu, DE; Andronescu, E; Voicu, G; Grumezescu, AM; Ficai, A; Vasile, BS; Bleotu, C; **Chifiriuc, MC**; Pop, CS

Source: ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY

Volume: 56 **Issue:** 2 **Pages:** 365-370 **Published:** 2015

ISSN: 1220-0522

Influence of *Staphylococcus aureus* attachment to the herpes simplex virus infected cells

Author(s): Bleotu, C; **Chifiriuc, MC**; Lazar, V; Dragusel, R; Matei, L; Aldea, IM; Dragu, LD; Ionescu, B; Diaconu, CC; Cernescu, C; Mogoanta, CA; Popescu, CR; Popescu, B; Grigore, R; Bertesteanu, SVG
ISSN: 1220-0522

ANTIMICROBIAL AND ANTI-PATHOGENIC ACTIVITY EVALUATION OF SOME 2-(TRIMETHOXYPHENYL)-4-AR(1)-5-R-2-THIAZOLES

Author(s): Araniciu, C; Oniga, S; Oniga, O; Palage, M; **Chifiriuc, MC**; Marutescu, L
Source: FARMACIA **Volume:** 63 **Issue:** 1 **Pages:** 40-45 **Published:** JAN-FEB 2015
ISSN: 0014-8237
eISSN: 2065-0019

Insight on thermal, spectral, magnetic and biological behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a pentaazamacrocyclic ligand derived from nicotinamide

Author(s): Olar, R; Patrascu, F; **Chifiriuc, MC**; Iorgulescu, EE; Bleotu, C; Marutescu, L; Lazar, V; Marinescu, D; Stanica, N; Badea, M
Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY
Volume: 118 **Issue:** 2 **Pages:** 1159-1168 **DOI:** 10.1007/s10973-014-3864-6 **Published:** NOV 2014
ISSN: 1388-6150
eISSN: 1588-2926

Structural and biological evaluation of lignin addition to simple and silver-doped hydroxyapatite thin films synthesized by matrix-assisted pulsed laser evaporation

Author(s): Jankovic, A; Erakovic, S; Ristoscu, C; Mihailescu, N; Duta, L; Visan, A; Stan, GE; Popa, AC; Husanu, MA; Luculescu, CR; Srdic, VV; Janackovic, D; Miskovic-Stankovic, V; Bleotu, C; **Chifiriuc, MC**; Mihailescu, IN
Source: JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE **Volume:** 26 **Issue:** 1 **Article Number:** 17 **DOI:** 10.1007/s10856-014-5333-y
Published: JAN 2015
ISSN: 0957-4530
eISSN: 1573-4838

Additive-free 1,4-butanediol mediated synthesis: a suitable route to obtain nanostructured, mesoporous spherical zinc oxide materials with multifunctional properties

Author(s): Visinescu, D; Scurtu, M; Negrea, R; Birjega, R; Culita, DC; **Chifiriuc, MC**; Draghici, C; Moreno, JC; Musuc, AM; Balint, I; Carp, O
Source: RSC ADVANCES **Volume:** 5 **Issue:** 121 **Pages:** 99976-99989
DOI: 10.1039/c5ra20224h **Published:** 2015
eISSN: 2046-2069

Thermal, spectral, magnetic and biologic characterization of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand bearing ketopyridine moieties

Author(s): Badea, M; Patrascu, F; Korosec, RC; Bukovec, P; Raita, M; **Chifiriuc, MC**; Marutescu, L; Bleotu, C; Velescu, B; Marinescu, D; Uivarosi, V; Olar, R
Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY
Volume: 118 **Issue:** 2 **Pages:** 1183-1193 **DOI:** 10.1007/s10973-014-3857-5 **Published:** NOV 2014
ISSN: 1388-6150
eISSN: 1588-2926

Thermal behaviour and characterisation of new biologically active Cu(II) complexes with benzimidazole as main ligand

Author(s): Badea, M; Vlaicu, ID; Olar, R; Constand, M; Bleotu, C; **Chifiriuc, MC**; Marutescu, L; Lazar, V; Grecu, MN; Marinescu, D
Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY
Volume: 118 **Issue:** 2 **Pages:** 1119-1133 **DOI:** 10.1007/s10973-014-3745-z **Published:** NOV 2014
ISSN: 1388-6150
eISSN: 1588-2926

Thermal behaviour of some novel antimicrobials based on complexes with a Schiff base bearing 1,2,4-triazole pharmacophore

Author(s): Badea, M; Calu, L; **Chifiriuc, MC**; Bleotu, C; Marin, A; Ion, S; Ionita, G; Stanica, N; Marutescu, L; Lazar, V; Marinescu, D; Olar, R
Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY
Volume: 118 **Issue:** 2 **Pages:** 1145-1157 **DOI:** 10.1007/s10973-014-3821-4 **Published:** NOV 2014
ISSN: 1388-6150
eISSN: 1588-2926

A NEW CONCEPT OF STAINLESS STEEL MEDICAL IMPLANT BASED UPON COMPOSITE NANOSTRUCTURES COATING

Author(s): Floroian, L; Florescu, M; Munteanu, D; Badea, M; Popescu-Pelin, G; Ristoscu, C; Sima, F; **Chifiriuc, MC**; Mihailescu, IN

Source: DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES

Volume: 9 **Issue:** 4 **Pages:** 1555-1568 **Published:** OCT-DEC 2014

ISSN: 1842-3582

Molecular screening of carbapenemase-producing Gram-negative Strains in Romanian intensive care units during a one year survey

Author(s): Gheorghe, I; Czobor, I; **Chifiriuc, MC**; Borcan, E; Ghita, C; Banu, O; Lazar, V; Mihaescu, G; Mihailescu, DF; Zong, ZY

Source: JOURNAL OF MEDICAL MICROBIOLOGY **Volume:** 63 **Pages:** 1303-1310

DOI: 10.1099/jmm.0.074039-0 **Part:** 10 **Published:** OCT 2014

ISSN: 0022-2615

eISSN: 1473-5644

MAPLE fabricated magnetite@eugenol and (3-hydroxybutyric acid-co-3-hydroxyvaleric acid)-polyvinyl alcohol microspheres coated surfaces with anti-microbial properties

Author(s): Grumezescu, V; Holban, AM; Iordache, F; Socol, G; Mogosanu, GD; Grumezescu, AM; Ficai, A; Vasile, BS; Trusca, R; **Chifiriuc, MC**; Maniu, H

Source: APPLIED SURFACE SCIENCE **Volume:** 306 **Pages:** 16-22

DOI: 10.1016/j.apsusc.2014.01.126 **Published:** JUL 1 2014

ISSN: 0169-4332

eISSN: 1873-5584

Usnic acid-loaded biocompatible magnetic PLGA-PVA microsphere thin films fabricated by MAPLE with increased resistance to staphylococcal colonization

Author(s): Grumezescu, V; Holban, AM; Grumezescu, AM; Socol, G; Ficai, A; Vasile, BS; Trusca, R; Bleotu, C; Lazar, V; **Chifiriuc, CM**; Mogosanu, GD

Source: BIOFABRICATION **Volume:** 6 **Issue:** 3 **Article Number:** 035002

DOI: 10.1088/1758-5082/6/3/035002 **Published:** SEP 2014

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eISSN: 1758-5090

Bioevaluation of Novel Anti-Biofilm Coatings Based on PVP/Fe₃O₄ Nanostructures and 2-((4-Ethylphenoxy)methyl)-N-(arylcabamothioyl)benzamides

Author(s): Limban, C; Missir, AV; Grumezescu, AM; Oprea, AE; Grumezescu, V; Vasile, BS; Socol, G; Trusca, R; Caproiu, MT; **Chifiriuc, MC**; Galateanu, B; Costache, M; Morusciag, L; Pircalabioru, G; Nuta, DC

Source: MOLECULES **Volume:** 19 **Issue:** 8 **Pages:** 12011-12030

DOI: 10.3390/molecules190812011 **Published:** AUG 2014

ISSN: 1420-3049

Synthesis, Characterization and Antimicrobial Evaluation of Some New Thioureas derived from 3-thiophenecarboxylic Acid

Author(s): Badiceanu, CD; Draghici, C; Missir, AV; **Chifiriuc, MC**; Stecoza, CE

Source: REVISTA DE CHIMIE **Volume:** 65 **Issue:** 2 **Pages:** 160-163 **Published:** FEB 2014

Studies on thermal, spectral, magnetic and biological properties of new Ni(II), Cu(II) and Zn(II) complexes with a bismacrocylic ligand bearing an aromatic linker

Author(s): Bucur, C; Badea, M; **Chifiriuc, MC**; Bleotu, C; Iorgulescu, EE; Badea, IA; Grecu, MN; Lazar, V; Patriciu, OI; Marinescu, D; Olar, R

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 115 **Issue:** 3 **Pages:** 2179-2189 **DOI:** 10.1007/s10973-013-3460-1

Published: MAR 2014

ISSN: 1388-6150

Anionic polymers and 10 nm Fe₃O₄@UA wound dressings support human foetal stem cells normal development and exhibit great antimicrobial properties

Author(s): Grumezescu, AM; Holban, AM; Andronescu, E; Mogosanu, GD; Vasile, BS; **Chifiriuc, MC**; Lazar, V; Andrei, E; Constantinescu, A; Maniu, H

Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 463 **Issue:** 2

Pages: 146-154 **DOI:** 10.1016/j.ijpharm.2013.08.026 **Published:** MAR 25 2014

ISSN: 0378-5173
eISSN: 1873-3476

Identification and phenotypic characterization of the most frequent bacterial etiologies in chronic skin ulcers
Author(s): Mihai, MM; Holban, AM; Giurcaneanu, C; Popa, LG; Buzea, M; Filipov, M; Lazar, V; **Chifiriuc, MC**;
Popa, MJ

Source: ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY
Volume: 55 **Issue:** 4 **Pages:** 1401-1408 **Published:** 2014
ISSN: 1220-0522

Antimicrobial and antioxidant activity of the vegetative and reproductive organs of Robinia pseudoacacia

Author(s): Marinas, IC; Oprea, E; Geana, EI; **Chifiriuc, C**; Lazar, V
Source: JOURNAL OF THE SERBIAN CHEMICAL SOCIETY **Volume:** 79 **Issue:** 11
Pages: 1363-1378 **DOI:** 10.2298/JSC140304049M **Published:** 2014
ISSN: 0352-5139

EVALUATION OF THE ANTIMICROBIAL AND ANTI-BIOFILM ACTIVITY OF SOME 4,2 AND 5,2
BISTHIAZOLES DERIVATIVES

Author(s): Araniciu, C; Marutescu, L; Oniga, S; Oniga, O; **Chifiriuc, MC**; Palage, M
Source: DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES
Volume: 9 **Issue:** 1 **Pages:** 123-131 **Published:** JAN-MAR 2014

Fluorescence analysis of apoptosis induced by Pseudomonas aeruginosa in endothelial cells

Author(s): Curutiu, C; **Chifiriuc, MC**; Iordache, F; Bleotu, C; Lazar, V; Mogoanta, CA; Popescu, CR; Grigore, R;
Bertesteanu, SVG

Source: ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY
Volume: 55 **Issue:** 2 **Pages:** 313-317 **Published:** 2014
ISSN: 1220-0522

SYNTHESIS, CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY EVALUATION OF NEW AGENTS
FROM BENZAMIDES CLASS

Author(s): Nuta, DC; **Chifiriuc, MC**; Draghici, C; Limban, C; Missir, AV; Morusciag, L
Source: FARMACIA **Volume:** 61 **Issue:** 5 **Pages:** 966-974 **Published:** SEP-OCT 2013
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IMPROVED ACTIVITY OF AMINOGLYCOSIDES ENTRAPPED IN SILICA NETWORKS AGAINST
MICROBIAL STRAINS ISOLATED FROM OTOLARYNGOLOGICAL INFECTIONS

Author(s): Anghel, I; Grumezescu, AM; Holban, AM; Gheorghe, I; Vlad, M; Anghel, GA; Balaure, PC; **Chifiriuc,**
CM; Ciuca, IM

Source: FARMACIA **Volume:** 62 **Issue:** 1 **Pages:** 69-78 **Published:** JAN-FEB 2014
ISSN: 0014-8237
eISSN: 2065-0019

Transition Metal(II) Complexes with Cefotaxime-Derived Schiff Base: Synthesis, Characterization, and Antimicrobial
Studies

Author(s): Reiss, A; **Chifiriuc, MC**; Amzoiu, E; Spinu, CI
Source: BIOINORGANIC CHEMISTRY AND APPLICATIONS **Volume:** 2014
Article Number: 926287 **DOI:** 10.1155/2014/926287 **Published:** 2014
ISSN: 1565-3633
eISSN: 1687-479X

Synthesis and bioevaluation of some new isoniazid derivatives

Author(s): Matei, L; Bleotu, C; Baciu, I; Draghici, C; Ionita, P; Paun, A; **Chifiriuc, MC**; Sbarcea, A; Zarafu, I
Source: BIOORGANIC & MEDICINAL CHEMISTRY **Volume:** 21 **Issue:** 17 **Pages:** 5355-5361
DOI: 10.1016/j.bmc.2013.06.013 **Published:** SEP 1 2013
ISSN: 0968-0896
eISSN: 1464-3391

Synthesis and microbiological evaluation of several benzocaine derivatives

Author(s): Paun, A; Zarafu, I; Caproiu, MT; Draghici, C; Maganu, M; Cotar, AI; **Chifiriuc, MC**; Ionita, P
Source: COMPES RENDUS CHIMIE **Volume:** 16 **Issue:** 7 **Pages:** 665-671
DOI: 10.1016/j.crci.2013.03.012 **Published:** JUL 2013

ISSN: 1631-0748
eISSN: 1878-1543

Investigation of thermal stability, spectral, magnetic, and antimicrobial behavior for new complexes of Ni(II), Cu(II), and Zn(II) with a bismacrocyclic ligand

Author(s): Bucur, C; Korosec, RC; Badea, M; Calu, L; **Chifiriuc, MC**; Grecu, N; Stanica, N; Marinescu, D; Olar, R

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

Volume: 113 **Issue:** 3 **Pages:** 1287-1295 **DOI:** 10.1007/s10973-012-2912-3 **Published:** SEP 2013

ISSN: 1388-6150

eISSN: 1588-2926

Thermal stability of new biologic active copper(II) complexes with 5,6-dimethylbenzimidazole

Author(s): Vlaicu, ID; Constand, M; Olar, R; Marinescu, D; Grecu, MN; Lazar, V; **Chifiriuc, MC**; Badea, M

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

Volume: 113 **Issue:** 3 **Pages:** 1369-1377 **DOI:** 10.1007/s10973-013-2948-z **Published:** SEP 2013

ISSN: 1388-6150

eISSN: 1588-2926

Functionalized magnetite silica thin films fabricated by MAPLE with antibiofilm properties

Author(s): Mihaiescu, DE; Cristescu, R; Dorcioman, G; Popescu, CE; Nita, C; Socol, G; Mihaiescu, IN; Grumezescu, AM; Gudovan, D; Enculescu, M; Negrea, RF; Ghica, C; **Chifiriuc, C**; Bleotu, C; Chrisey, DB

Source: BIOFABRICATION **Volume:** 5 **Issue:** 1 **Article Number:** 015007

DOI: 10.1088/1758-5082/5/1/015007 **Published:** MAR 2013

ISSN: 1758-5082

ANTIMICROBIAL AND BIOCOMPATIBILITY ASSAY OF NEWLY FABRICATED MATERIALS BASED COPPER OR ZINC ALGINATE AND SIO₂ NETWORK

Author(s): Grumezescu, V; **Chifiriuc, CM**; Holban, AM; Stoica, P; Grumezescu, AM; Voicu, G; Socol, G; Huang, KS; Bleotu, C; Radulescu, R

Source: DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES

Volume: 8 **Issue:** 2 **Pages:** 869-U507 **Published:** APR-JUN 2013

ISSN: 1842-3582

Synthesis, spectral and thermal study on new Fe(III) complexes with N,N-dimethylbiguanide as antibacterial agents

Author(s): Badea, M; Crasanda, AM; **Chifiriuc, MC**; Marutescu, L; Lazar, V; Marinescu, D; Olar, R

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

Volume: 111 **Issue:** 3 **Pages:** 1743-1751 **DOI:** 10.1007/s10973-012-2277-7 **Published:** MAR 2013

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Thermal, spectral, electrochemical and biologic characterization of new Pd(II) complexes with ligands bearing biguanide moieties

Author(s): Badea, M; Iosub, E; **Chifiriuc, CM**; Marutescu, L; Iorgulescu, EE; Lazar, V; Marinescu, D; Bleotu, C; Olar, R

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

Volume: 111 **Issue:** 3 **Pages:** 1753-1761 **DOI:** 10.1007/s10973-012-2288-4 **Published:** MAR 2013

ISSN: 1388-6150

Thermal study of new biologic active complexes with mixed ligands

Author(s): Vasile, G; Olar, R; Marinescu, D; Kriza, A; Marutescu, L; **Chifiriuc, MC**; Lazar, V; Badea, M

Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

Volume: 111 **Issue:** 3 **Pages:** 1783-1790 **DOI:** 10.1007/s10973-012-2317-3 **Published:** MAR 2013

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eISSN: 1588-2926

207. Fabrication, characterization and in vitro profile based interaction with eukaryotic and prokaryotic cells of alginate-chitosan-silica biocomposite

Author(s): Balaure, PC; Andronescu, E; Grumezescu, AM; Ficai, A; Huang, KS; Yang, CH; **Chifiriuc, CM**; Lin, YS

Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 441 **Issue:** 1-2

Pages: 555-561 **DOI:** 10.1016/j.ijpharm.2012.10.045 **Published:** JAN 30 2013

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eISSN: 1873-3476

MAGNETITE - USNIC ACID NANOSTRUCTURED BIOACTIVE MATERIAL WITH ANTIMICROBIAL ACTIVITY

Author(s): Holban, AM; Grumezescu, AM; Andronescu, E; Grumezescu, V; **Chifiriuc, CM**; Radulescu, R
Source: REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS
Volume: 43 **Issue:** 4 **Pages:** 402-407 **Published:** 2013
ISSN: 1583-3186

Fe₃O₄@C-18-CARVONE TO PREVENT CANDIDA TROPICALIS BIOFILM DEVELOPMENT

Author(s): Holban, AM; Grumezescu, AM; Fikai, A; **Chifiriuc, CM**; Lazar, V; Radulescu, R
Source: REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS
Volume: 43 **Issue:** 3 **Pages:** 300-305 **Published:** 2013
ISSN: 1583-3186

Synthesis and Antimicrobial Activity of Silver-Doped Hydroxyapatite Nanoparticles

Author(s): Ciobanu, CS; Iconaru, SL; **Chifiriuc, MC**; Costescu, A; Le Coustumer, P; Predoi, D
Source: BIOMED RESEARCH INTERNATIONAL **Volume:** 2013 **Article Number:** 916218
DOI: 10.1155/2013/916218 **Published:** 2013
ISSN: 2314-6133
eISSN: 2314-6141

Fabrication, Characterization, and Antimicrobial Activity, Evaluation of Low Silver Concentrations in Silver-Doped Hydroxyapatite Nanoparticles

Author(s): Costescu, A; Ciobanu, CS; Iconaru, SL; Ghita, RV; **Chifiriuc, CM**; Marutescu, LG; Predoi, D
Source: JOURNAL OF NANOMATERIALS **Volume:** 2013 **Article Number:** 194854
DOI: 10.1155/2013/194854 **Published:** 2013
ISSN: 1687-4110
eISSN: 1687-4129

Magnetic Properties and Biological Activity Evaluation of Iron Oxide Nanoparticles

Author(s): Prodan, AM; Iconaru, SL; **Chifiriuc, CM**; Bleotu, C; Ciobanu, CS; Motelica-Heino, M; Sizaret, S; Predoi, D
Source: JOURNAL OF NANOMATERIALS **Volume:** 2013 **Article Number:** 893970
DOI: 10.1155/2013/893970 **Published:** 2013
ISSN: 1687-4110
eISSN: 1687-4129

Iron Oxide Magnetic Nanoparticles: Characterization and Toxicity Evaluation by In Vitro and In Vivo Assays

Author(s): Prodan, AM; Iconaru, SL; Ciobanu, CS; **Chifiriuc, MC**; Stoicea, M; Predoi, D
Source: JOURNAL OF NANOMATERIALS **Volume:** 2013 **Article Number:** 587021
DOI: 10.1155/2013/587021 **Published:** 2013
ISSN: 1687-4110
eISSN: 1687-4129

Thermal behaviour of some new complexes with decaaza bismacrocylic ligand as potential antimicrobial species

Author(s): Bucur, C; Badea, M; Larisa, C; Marinescu, D; Grecu, MN; Stanica, N; **Chifiriuc, MC**; Olar, R
Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 110 **Issue:** 1 **Pages:** 235-241 **DOI:** 10.1007/s10973-012-2199-4
Published: OCT 2012
ISSN: 1388-6150
eISSN: 1588-2926

Synthesis and antimicrobial screening of N-(1-methyl-1H-pyrazole-4-carbonyl)-thiourea derivatives

Author(s): Nitulescu, GM; Draghici, C; **Chifiriuc, MC**; Marutescu, L; Bleotu, C; Missir, AV
Source: MEDICINAL CHEMISTRY RESEARCH **Volume:** 21 **Issue:** 3 **Pages:** 308-314
DOI: 10.1007/s00044-010-9541-9 **Published:** MAR 2012
ISSN: 1054-2523

Biocompatible Magnetic MWCNTs Based on Phytocomponents from Eugenia carryophyllata

Author(s): Saviuc, C; Grumezescu, AM; Banu, O; **Chifiriuc, C**; Mihaiescu, D; Balaure, P; Lazar, V
Source: REVISTA DE CHIMIE **Volume:** 63 **Issue:** 5 **Pages:** 531-535 **Published:** MAY 2012
ISSN: 0034-7752

IN VITRO EVALUATION OF BACTERICIDAL AND ANTIBIOFILM ACTIVITY OF LONICERA TATARICA

AND VIBURNUM OPULUS PLANT EXTRACTS ON STAPHYLOCOCCUS STRAINS

Author(s): Bubulica, MV; Anghel, I; Grumezescu, AM; Saviuc, C; Anghel, GA; **Chifiriuc, MC**; Gheorghe, I; Lazar, V; Popescu, A

Source: FARMACIA **Volume:** 60 **Issue:** 1 **Pages:** 80-91 **Published:** JAN-FEB 2012

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eISSN: 2065-0019

HYBRID NANOSYSTEM FOR STABILIZING ESSENTIAL OILS IN BIOMEDICAL APPLICATIONS

Author(s): Saviuc, C; Grumezescu, AM; **Chifiriuc, CM**; Mihaiescu, DE; Hristu, R; Stanciu, G; Oprea, E; Radulescu, V; Lazar, V

Source: DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES

Volume: 6 **Issue:** 4 **Pages:** 1657-1666 **Published:** OCT-DEC 2011

ISSN: 1842-3582

Fluorescent analysis of apoptosis induced by Pseudomonas aeruginosa in endothelial cells

Author(s): Iordache, F; Iordache, C; Lixandru, M; Holban, A; Bleotu, C; Lazar, V; **Chifiriuc, C**; Maniu, H

Source: EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS

Volume: 40 **Pages:** 126-126 **Supplement:** 1 **Published:** AUG 2011

ISSN: 0175-7571

Mechanisms of Ceftazidime and Ciprofloxacin Transport through Porins in Multidrug-Resistance Developed by Extended-Spectrum Beta-Lactamase E.coli Strains

Author(s): Radu, BM; Bacalum, M; Marin, A; **Chifiriuc, CM**; Lazar, V; Radu, M

Source: JOURNAL OF FLUORESCENCE **Volume:** 21 **Issue:** 4 **Pages:** 1421-1429

DOI: 10.1007/s10895-010-0826-7 **Published:** JUL 2011

ISSN: 1053-0509

Synthesis and antimicrobial properties of new 2-((4-ethylphenoxy)methyl)benzoylthioureas

Author(s): Limban, C; Missir, AV; Chirita, IC; Nitulescu, GM; Caproiu, MT; **Chifiriuc, MC**; Israil, AM

Source: CHEMICAL PAPERS **Volume:** 65 **Issue:** 1 **Pages:** 60-69 **DOI:** 10.2478/s11696-010-0092-9

Published: FEB 2011

ISSN: 2585-7290

eISSN: 1336-9075

In vitro assay of the antimicrobial activity of Fe₃O₄ and CoFe₂O₄/oleic acid - core/shell on clinical isolates of bacterial and fungal strains

Author(s): Grumezescu, AM; Mihaiescu, DE; Mogosanu, DE; **Chifiriuc, MC**; Lazar, V; Calugarescu, I; Traistaru, V

Source: OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS

Volume: 4 **Issue:** 11 **Pages:** 1798-1801 **Published:** NOV 2010

ISSN: 1842-6573

eISSN: 2065-3824

Antimicrobial activity of some new 2-thiophene carboxylic acid thioureaides

Author(s): Badiceanu, CD; Missir, AV; **Chifiriuc, MC**; Dracea, O; Raut, I; Larion, C; Ditu, LM; Mihaescu, G

Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 15 **Issue:** 5 **Pages:** 5545-5551

Published: SEP-OCT 2010

ISSN: 1224-5984

Prospects for new antimicrobials based on N,N-dimethylbiguanide complexes as effective agents on both planktonic and adhered microbial strains

Author(s): Olar, R; Badea, M; Marinescu, D; **Chifiriuc, CM**; Bleotu, C; Grecu, MN; Iorgulescu, EE; Bucur, M; Lazar, V; Finaru, A

Source: EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY **Volume:** 45 **Issue:** 7

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N,N-dimethylbiguanide complexes displaying low cytotoxicity as potential large spectrum antimicrobial agents

Author(s): Olar, R; Badea, M; Marinescu, D; **Chifiriuc, MC**; Bleotu, C; Grecu, MN; Iorgulescu, EE; Lazar, V

Source: EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY **Volume:** 45 **Issue:** 7

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Chemical Composition and Antimicrobial Activity of Essential Oil from Shoots Spruce (Picea abies L)

Author(s): Radulescu, V; Saviuc, C; **Chifiriuc, C**; Oprea, E; Ilies, DC; Marutescu, L; Lazar, V
Source: REVISTA DE CHIMIE **Volume:** 62 **Issue:** 1 **Pages:** 69-74 **Published:** JAN 2011
ISSN: 0034-7752

IN VITRO EVALUATION OF THE ANTIBACTERIAL AND ANTIFUNGAL ACTIVITY OF SOME NEW N-(2-DIALKYLAMINOETHYL)BENZANILIDES

Author(s): Nuta, DC; **Chifiriuc, CB**; Missir, AV; Chirita, IC; Badiceanu, CD
Source: FARMACIA **Volume:** 58 **Issue:** 1 **Pages:** 38-45 **Published:** JAN-FEB 2010
ISSN: 0014-8237

Genetic analysis of virulence and pathogenicity features of uropathogenic Escherichia coli isolated from patients with neurogenic bladder

Author(s): Mladin, C (Mladin, Claudia); Usein, CR (Usein, Codruta-Romanita); **Chifiriuc, MC**; Palade, A; Slavu, CL; Negut, M; Damian, M
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 14 **Issue:** 6 **Pages:** 4906-4911
Published: NOV-DEC 2009
ISSN: 1224-5984

SYNTHESIS OF ISOMERIC N-(1-METHYL-1H-PYRAZOLE-4-CARBONYL)-N'-(XYLYL)-THIOUREA AND THEIR ANTIMICROBIAL EVALUATION

Author(s): Nitulescu, GM; Draghici, C; **Chifiriuc, MC**; Missir, AV
Source: FARMACIA **Volume:** 57 **Issue:** 5 **Pages:** 527-533 **Published:** SEP-OCT 2009
ISSN: 0014-8237

Thermal behaviour of new biological active cadmium mixed ligands complexes

Author(s): Badea, M; Olar, R; Marinescu, D; Lazar, V; **Chifiriuc, C**; Vasile, G
Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 97 **Issue:** 2 **Pages:** 781-785 **DOI:** 10.1007/s10973-009-0344-5
Published: AUG 2009

Phenotypic and genetic analysis of the antibiotic resistance patterns in uropathogenic Escherichia coli strains

Author(s): Mladin, C; **Chifiriuc, MC**; Palade, A; Usein, CR; Slavu, CL; Alina, R; Damian, M
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 15 **Issue:** 2 **Pages:** 5078-5086
Published: MAR-APR 2010
ISSN: 1224-5984

NEW 2-(4-ETHYL-PHENOXYMETHYL)BENZOIC ACID THIOUREIDES. SYNTHESIS, SPECTRAL ANALYSES AND MICROBIOLOGICAL ASSAYS

Author(s): Limban, C; Missir, AV; Chirita, IC; Nitulescu, GM; Draghici, C; Caproiu, MT; **Chifiriuc, MC**; Dracea, ON
Source: REVUE ROUMAINE DE CHIMIE **Volume:** 54 **Issue:** 8 **Pages:** 637-+ **Published:** AUG 2009
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Thermal behaviour of new biological active cadmium mixed ligands complexes

Author(s): Badea, M; Olar, R; Marinescu, D; Lazar, V; **Chifiriuc, C**; Vasile, G
Source: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 97 **Issue:** 2 **Pages:** 781-785 **DOI:** 10.1007/s10973-009-0344-5
Published: AUG 2009

Evaluation and monitoring of quorum sensing soluble mediators implicated in the regulation of bacterial growth in Vibrio strains

Author(s): Israil, AM); **Chifiriuc, MC**; Delcaru, C; Iordache, C; Pelinescu, D; Sasarman, E
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 14 **Issue:** 2 **Pages:** 4211-4224
Published: MAR-APR 2009
ISSN: 1224-5984

Isolation and identification of some Lactobacillus and Enterococcus strains by a polyphasic taxonomical approach

Author(s): Pelinescu, DR; Sasarman, E; **Chifiriuc, MC**; Stoica, I; Nohit, AM; Avram, I; Serbancea, F; Dimov, TV
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 14 **Issue:** 2 **Pages:** 4225-4233
Published: MAR-APR 2009
ISSN: 1224-5984

Synthesis, Characterization and Antimicrobial Activity Evaluation of Some New Derivatives of 6,11-dihydrodibenzo[b,e]thiepin 5,5-dioxide

Author(s): Stecoza, CE; Caproiu, MT; Draghici, C; **Chifiriuc, MC**; Dracea, NO
Source: REVISTA DE CHIMIE **Volume:** 60 **Issue:** 2 **Pages:** 137-141 **Published:** FEB 2009
ISSN: 0034-7752

Virulence, pathogenicity, antibiotic resistance and plasmid profile of Escherichia coli strains isolated from drinking and recreational waters

Author(s): Panus, E; **Chifiriuc, MC**; Bucur, M; Cernat, R; Mitache, M; Nedelcu, D; Bleotu, C; Valeanu, D; Lazar, V; Rosoiu, N
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 13 **Issue:** 3 **Pages:** 3695-3700
Published: MAY-JUN 2008
ISSN: 1224-5984

Screening of molecular markers of quorum sensing in Pseudomonas aeruginosa strains isolated from clinical infections

Author(s): Cotar, AI; Dinu, S; **Chifiriuc, MC**; Banu, O; Iordache, C; Larion, C; Bucur, M; Dracea, O; Lazar, V
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 13 **Issue:** 3 **Pages:** 3765-3770
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ISSN: 1224-5984

Molecular markers of quorum-sensing and virulence gene regulators in Staphylococcus aureus strains isolated from biofilm associated infections

Author(s): Cotar, AI; Dinu, S; **Chifiriuc, MC**; Banu, O; Iordache, C; Lixandru, M; Dracea, O; Bucur, M; Lazar, V
Source: ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 13 **Issue:** 3 **Pages:** 3771-3778
Published: MAY-JUN 2008
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Copper(II) complexes with ligands derived from 4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one: Synthesis and biological activity

Author(s): Rosu, T; Pasculescu, S; Lazar, V; **Chifiriuc, C**; Cernat, R
Source: MOLECULES **Volume:** 11 **Issue:** 11 **Pages:** 904-914
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Thioureides of 2-(phenoxyethyl)benzoic acid 4-R substituted: A novel class of anti-parasitic compounds

Author(s): Muller, J; Limban, C; Stadelmann, B; Missir, AV; Chirita, IC; **Chifiriuc, MC**; Nitulescu, GM; Hemphill, A
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Magnetic core/shell nanoparticle thin films deposited by MAPLE: Investigation by chemical, morphological and in vitro biological assays

Author(s): Cristescu, R; Popescu, C; Socol, G; Iordache, I; Mihailescu, IN; Mihaiescu, DE; Grumezescu, AM; Balan, A; Stamatin, I; **Chifiriuc, C**; Bleotu, C; Saviuc, C; Popa, M; Chrissey, DB
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2. Adriana Pistol & Mihaela Leustean & Denisa Janta & Teodora Vremera & Oana Nicolescu & Mihaela Magdalena Mitache & Mariana-Carmen **CHIFIRIUC** & Florentina Ligia Furtunescu The Seroprevalence of SARS-CoV-2 Antibodies in Romania - First Prevalence Survey Biomedical Journal of Scientific & Technical Research, Biomedical Research Network+, LLC, vol. 39(1), pages 30902-30908, September.
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4. Mădălina Lupșa , Marcela Popa, Mariana Carmen **CHIFIRIUC** IMPLICATIONS OF ORAL MICROBIOTA IN THE OCCURRENCE AND PROGRESSION OF DENTAL CARIES AND PERIODONTAL DISEASE ROMANIAN ARCHIVES OF MICROBIOLOGY AND IMMUNOLOGY, Vol. 79, Issue 4, pp. 266-272, October - December, 2020
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6. Grigore Mihăescu, Sajjad Mohsin, Hamzah Basil Mohammed, Othman Almahdawy, Othman Taha Qasim, Omar Sadik, Mariana Carmen **CHIFIRIUC** INSIGHTS INTO THE VIRULENCE FACTORS OF ACINETOBACTER BAUMANNII AND THEIR ROLES IN PERSISTENCE AND INFECTIOUS PROCESS ROMANIAN ARCHIVES OF MICROBIOLOGY AND IMMUNOLOGY, bo, 4 (2) 2021, 141-150 Grăbiela Grădișteanu Pircălăbioru, Mariana-Carmen **CHIFIRIUC**, Roxana Adriana Stoica, Adrian Paul Suceveanu, Laura Petcu, Ariana Picu, Simona Diana Ștefan, Cristian Serafinceanu, Djordje S Popovic, Anca Pantea Stoian SEVELAMER CARBONATE MODULATES THE NLRP3 AND NLRP6 INFLAMMASOME EXPRESSION IN PATIENTS WITH DIABETIC NEPHROPATHY ROMANIAN ARCHIVES OF MICROBIOLOGY AND IMMUNOLOGY, bo, 4 (2) 2021, 125-132
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