

LISTA LUCRĂRILOR ȘTIINȚIFICE ELABORATE

TEZA DE DOCTORAT

Titlul tezei de doctorat: „**Alumină modificată chimic utilizată ca fază staționară în cromatografie**”, sub coordonarea doamnei Prof. univ. dr. Gheorghe MARCU din cadrul Facultății de Chimie și Inginerie Chimică, Universitatea Babeș-Bolyai. În urma susținerii publice a Tezei de doctorat în 16.12.2005 mi s-a conferit titlu de „Doctor” în domeniul „Chimie”.

CAPITOLE DE CARTE

1. C. Saroși, M. Roșu, S. Boboia, **M. Filip**, C. Alb, M. Moldovan, cap. II.4. Efectul nanoparticulelor asupra cantității de monomer residual la nanocompozitele cu grafene; în cartea **Cercetarea în Medicina Dentară de la studii fundamentale spre domenii aplicative** Editura Colorama, 2015, ISBN 978-606-93891-6-4, 2015, p. 88-93.
2. M. Moldovan, C. Prejmerean, D. Prodan, **M. Filip**, S. Cuc, L. Silaghi-Dumitrescu, C. Gasparik, D. Duda, cap. V.2. Produse naturale indicate în stomatologie cosmetică; în cartea **Cercetarea în Medicina Dentară de la studii fundamentale spre domenii aplicative** Editura Colorama, 2015, ISBN 978-606-93891-6-4, 2015, p. 236-246.

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1. Vlassa, M.; **Filip, M.***; Beldean-Galea, S.; Thiebaut, D.; Vial, J.; Petean, I. Investigation of Liquid Oils Obtained by Thermo-Catalytic Degradation of Plastic Wastes in Energy Recovery. *Molecules* **2025**, *30*, 1959. <https://doi.org/10.3390/molecules30091959>. IF= 4.2;
2. Avram, S.E.; Tudoran, L.B.; Borodi, G.; **Filip, M. R.**; Ciotlaus, I.; Petean, I. Physicochemical Aspects Regarding the Sustainable Conversion of Carwash Slurry as Coverage Admixture for Landfills. *Sustainability* **2025**, *17*, 2906. <https://doi.org/10.3390/su17072906>, IF = 3.3;
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4. Avram, S.E.; Tudoran, L.B.; Borodi, G.; **Filip, M.R.**; Petean, I. Urban Traffic's Influence on Noise and Particulate Matter Pollution. *Sustainability* **2025**, *17*, 2077. <https://doi.org/10.3390/su17052077>. IF=3.3;
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6. Szanto, L.G.; Marc, R.A.; Mureșan, A.E.; Mureșan, C.C.; Pușcaș A.; Ranga F.; Fetea F.; Moraru P.I.; **Filip, M.**; Muste S.; Biofortification of Acacia and Polyflower Honey with *Pine sylvestris* L. Bud Extracts: Exploring Antioxidant Variation Across Developmental Stages for Enhanced Nutritional Value, *Plant Foods for Human Nutrition* **2025**, *80* (1), 47, <https://doi.org/10.1007/s11130-024-01282-8>; IF = 3.1;
7. Taranu, I.; Bulgaru, C.V.; Pistol, G.C.; Gras, M.A.; Ciupitu, A.-M.; Grosu, I.A.; Vlassa, M.; **Filip, M.**; Marin, D.E.; Mustard Meal Extract as an Alternative to Zinc Oxide for Protecting the Intestinal Barrier Against *E. coli*-Lipopolysaccharide Damage. *Int. J. Mol. Sci.* **2025**, *26*, 273. <https://doi.org/10.3390/ijms26010273> IF = 4.9;

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17. Avram, S.E., **Filip, M.R.***, Tudoran, L.B., Borodi, G., Petean, I., Investigation of Ferrous Conglomerate Particles Found in Carwash Slurry and Their Environmental Implications. *Studia UBB Chemia* **2023**, Vol. LXVIII Issue 4, 57-70. DOI:10.24193/subbchem.2023.4.05. IF = 0.3;
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BREVET DE INVENTIE

1. **RO 128800 B1/30.06.2017**, “Matrice organica si compozit de restaurare indirecta pentru utilizarea in stomatologie / Organic matrix and indirect restorative composite for use in dentistry, Inventatori: C. Prejmerean, M. Moldovan, D. Prodan, L. Silaghi-Dumitrescu, G. Furtos, H. Iovu, C. Petrea, V. Popescu, V. Pascalau, C. Sorosi, S. Boboia, **M. Filip**, A. Colceriu-Burtea, R. Silaghi-Dumitrescu. Titulari de brevet: Universitatea Babeș-Bolyai, Cluj-Napoca, România,
2. **RO-134323 B1/ 30.03/2023**, ”Material compozit armat cu țesătura de fibre de sticlă / Composite material reinforced with glass fiber fabric, inventatori: C. Prejmerean, M. Moldovan, D. Prodan, C.L. Saroși, L. Silaghi-Dumitrescu, **M. Filip**, B. Culic, D. Duda, A-M. Varvara, A-V Burde, C. Gasparik, A-G. Grecu, Titulari de brevet: Universitatea Babeș-Bolyai, Cluj-Napoca, România, Universitatea de Medicina și Farmacie ”Iuliu Hațieganu” Cluj-Napoca, Romania.

CERERI DE BREVET DE INVENȚIE

1. D. Popa, D. Prodan, M. Moldovan, L.C. Saroși, S. Cuc, M. Popa, S. Varvara, **M. Filip**, I. Perhaita, R. Carpa, G. Furtos, *Mortar hidraulic cu aditivi pe bază de pulberi cu oxid de grafenă*, Cerere de brevet nr. A/100614/06.10.2022 .

PROIECTE DE CERCETARE ȘTIINȚIFICĂ

Program/Proiect	Funcția	Perioada
1. UEFISCDI, SEE Fonduri structurale Un instrument-model de sprijin pentru luarea deciziilor privind reducerea riscului de sănătate asociat cu sursele necontrolate de apă și de alimente din comunitățile rome rurale din Transilvania (A support tool model for decision making to reduce the health risk associated with the uncontrolled water and food sources in rural Roma communities in Transylvania (SEE 0463, contract nr. 23/2020).	Membru în echipă	2020-2023
2. UEFISCDI, PN-III-P2-2.1-PED2019-2953 Noi materiale pentru tratamentul minim invaziv al cariei dentare incipiente și al petelor albe (the new materials for minimally invasive treatment for the incipient caries and white spots) (334PED/2020).	Membru în echipă	2020-2022
3. UEFISCDI, PN-III-P1-1.2-PCCDI-2017-0473 De la nutriția clasică la nutriția de precizie în domeniul creșterii animalelor, baza științifică pentru asigurarea securității nutriționale a populației – Acronim IBNAPLUS – “From classical animal nutrition to precision animal nutrition, scientific foundation for food security “ (IBNAPLUS)	Membru în echipă	2017-2020
4. UEFISCDI, PN III-PN-2-2.1-PED-2016-1921, contr. 13/2017 , Valorificarea rezultatelor preliminare legate de acidoza ruminală subacută (SARA) prin dezvoltarea de produse furajere “prietenoase” față de mediul ruminal (SARA demo)	Membru în echipă	2016-2018
5. UEFISCDI, PN-III-P2-2.1-PED-2016-1415, contr. 101 /2016 , Terapia fotodinamică cu fotosensibilizatori naturali utilizați în controlul biofilmului oral (BIOFOTOLEN)	Membru în echipă	2016-2018
6. UEFISCDI, PN-III-P2-2.1-PED-2016-1907, contr. 142/2016 , Noi materiale de cimentare cu grafene utilizate în stomatologie (LUTGRAF)	Membru în echipă	2016-2018
7. UEFISCDI, PN-III-P2-2.1-BG-2016- 0335/2016 , Dezvoltarea unor produse funcționale nutriceutice cu aplicații în alimentația sănătoasă și medicina regenerativă, obținute prin utilizarea unor tehnologii inovatoare și sustenabile.	Membru în echipă	2016-2018
8. UEFISCDI, PN-II-PT-PCCA-2013-4-1501, 241/2014 , Dezvoltarea unor nanomateriale inovative printr-o tehnologie avansată cu aplicabilitate în profilaxia afecțiunilor dentare și parodontale.	Membru în echipă	2014-2017
9. UEFISCDI, 191/2014 PN-II-PT-PCCA-2013-4- 1198, 191/2014 , Antiagregante plachetare naturiste în prevenția primară cardio- vasculară	Membru în echipă	2014-2017
10. 230/2014 PN-II-PT-PCCA-2013-4-1282, 230/2014 , Noi materiale compozite pe baza de polimeri biocompatibili și grafene pentru aplicații dentare	Membru în echipă	2014-2017
11. UEFISCDI, 127/2014 PN-II-PT-PCCA-2013-4- 1474, 127/2014 , Comportamentul celulelor mezenchimale orale în relație cu un nou material compozit în terapia parodontală regenerativă modernă	Membru în echipă	2014-2017
12. UEFISCDI, PNCD II 165/2012: New generation of biomaterials for cosmetic dentistry - COSMETICDENT , Contract nr.165/2012, http://granturi.ubbcluj.ro/cosmeticdent/Cosmeticdent.htm	Membru în echipă	2012-2015
13. UEFISCDI, PNCD II 189/2012: Novel advanced smart biomaterials of gyomer type with application in dentistry - GIODENT , http://granturi.ubbcluj.ro/giodent	Membru în echipă	2012-2015
14. UEFISCDI, PN-II-CT-ROFR-2014-2- 0013: École Supérieure de Physique et de Chimie Industrielles Dezvoltarea de metode moderne de microextracție cuplate cu tehnici cromatografice cuplate și bidimensionale pentru analiza probelor complexe de mediu.	Membru în echipă	2014-2015
15. UEFISCDI, 4D-POSTDOC -2010-2013 / Cod Contract: POSDRU/89/1.5/S/52603: "Development and support of multidisciplinary postdoctoral programs in major technical areas of national strategy of the Research-Development-Innovation" 4D-POSTDOC , contract no. POSDRU/89/1.5/S/52603, project co-funded by the European Social Fund through the Sectoral Operational	Cercetător postdoctoral	2010-2013

Program Human Resources Development 2007-2013, Technical University of Cluj-Napoca. Research program: Study of the thermal cracking processes of macromolecular compounds using gas chromatography (GC-FID) and spectroscopic techniques (FT-IR, UV-Vis).		
16. CNCSIS, PNCDI 2. Capacities Module III 213-1/2009 , Proiect Bilateral România-Franța, Program Brâncuși: 2009-2011. Dezvoltarea unor metode instrumentale analitice multidimensionale si moderne, rapide si eficiente, aplicate la separarea compusilor din amestecuri de mare complexitate.	Membru în echipă	2009-2010
17. CNCSIS, PNCDI 2 Capacities, PC 86/2007 , Centru de cercetări bioenergetice BIOENERGRO	Membru în echipă	2007-2010
18. CNCSIS, PNCDI 2 51-067/2007 , Conservarea biodiversității și caracterizarea resurselor genetice la măr în contextul stocării acestora în bănci de gene – CRIOGENBANC	Membru în echipă	2007-2010
19. CNCSIS, PNCD II 72190/2008 , Biomateriale complexe cu grad ridicat de specificitate utilizat în tratamentele endodontice- ENDODENT	Membru în echipă	2008-2011
20. CNCSIS, PNCDI 2 51-038/2007 , Creșterea retenției azotului la rumegătoare prin optimizarea proteosintezei microbiene ruminale: AZORUM	Membru în echipă	2007-2010
21. CNCSIS, PNCD II 51-072/2007 , Elaborarea unor metode performante de determinare a coloranților din băuturi pentru asigurarea calității și a securității alimentare - BEVCOLOR	Membru în echipă	2007-2010
22. ANCS, GRANT 708/2006 Noi abordări în dielectrocromatografia plană prin realizarea camerei verticale - V-PDEC	Membru în echipă	2007-2010
23. ANCS, CEEEX VIASAN 73/2006 Potențialul osteoinductiv al cornului caduc de cerb utilizabil în renerarea osoasă - CERB-REGEN-OS	Membru în echipă	2006-2008
24. ANCS, CEEEX VIASAN 200/01.09.2006 Optimization of the diagnostic and therapy of bladder cancer in the context of appearance of new urinary tumor markers of the cytogenetic characterization and minimal invasive therapeutically methods – VEZUVIUM	Membru în echipă	2006-2008
25. ANCS, CEEEX CERES 68/2006 Contribuții privind obținerea, caracterizarea și utilizarea unor materiale nanostructurale, la degradarea electrochimică directă sau / și fotoasistată a unor poluanți - NANELPOL	Membru în echipă	2006-2008
26. ANCS, INVENT 49 / 2002 Biocompozite bazate pe sisteme de monomeri fotopolimerizabil și aplicarea de umpluturi anorganice în profilaxia dentară.	Membru în echipă	2002-2004
27. ANCS, CEEEX VIASAN 63/2005 Optimization of diagnostic and therapy of the prostate adenocarcinoma in the context of appearance of urinary tumoral markers and of minimal invasive procedures – PROMARKDIATER .	Membru în echipă	2005-2008
28. ANCS, CEEEX MATNANTECH 5603/2005 Strategii de nanofabricație interfacială în cercetarea și dezvoltarea unor noi nanomateriale funcționale și nanostructuri supramoleculare plane pentru nanotehnologie și nanodispozitive – NANOIN	Membru în echipă	2005-2008
29. ANCS, CEEEX CERES D11-16/2005 Compusi organometalici hipervalenti ai elementelor din grupele principale (Sn, Pb, Sb, Bi, Se, Te) - HYPORGMET	Membru în echipă	2005-2008
30. ANCS, CEEEX CERES D11-80/2005 Interacția microundelor cu sisteme moleculare și bio-moleculare - MICRO-BIO-MOL	Membru în echipă	2005-2008
31. ANCS, CEEEX BIOTECH 141/2006 Elaborarea unor metode performante de determinare a îndulcitorilor și a coloranților din vin, interziși de lege, pentru asigurarea calității și a siguranței chimice a acestuia - MET-PERF-CAL-VIN	Membru în echipă	2005-2008
32. ANCS, CEEEX RELANSIN 2 / 2005 Noi materiale și sisteme pentru protetica și implantologia dentară - NISIPID	Membru în echipă	2005-2008
33. ANCS, CEEEX MATNANTECH 1306 / 2005 Nanomateriale și adezivi cu noi aplicații de înaltă performanță în stomatologie - NANMED	Membru în echipă	2005-2008
34. ANCS, VIASAN 260 / 2003 Dezvoltarea de sisteme locale de rășini compozite pe bază de bio, utilizate ca componente pentru proteze dentare, metal-polimer estetic fix.	Membru în echipă	2003-2005

35. CNMP, Matnantech 154 (301) / 2003 Dezvoltarea unui compozit de ciment dentar cu priză dublă pentru atașarea protezelor fixe și a unității parțiale	Membru în echipă	2003-2005
36. CNMP, MATNANTECH 123 (301) / 2003 Material compozit nanoumplură bazat pe morfologia compozitului utilizat pentru refacerea coroanei dentare	Membru în echipă	2003-2005
37. CNMP, BIOTECH 3360 / 2003 Produs dentar multifuncțional tip sticle pe bază de compomer monomer dimetacrilat modificat cu suprafață activă	Membru în echipă	2003-2006
38. CNMP, CERES 3-77 / 2003 Procesarea dinamică a unei substanțe în câmpul micro-căilor de putere în sistem cu verificare inteligentă.	Membru în echipă	2003-2005
39. CNMP, CERES 3-113 / 2002 Cercetări privind comportamentul cromatografic și electrochimic al unor compuși chimici care definesc autenticitatea vinului CRO-EL-VIN	Membru în echipă	2003-2005
40. CNMP, INVENT 49 / 2002 Biocompozite bazate pe sisteme de monomeri fotopolimerizabil și aplicarea de umpluturi anorganice în profilaxia dentară.	Membru în echipă	2002-2004
41. CNMP, CERES 32 / 2002 Cercetări în chimia compușilor organo-staniu.	Membru în echipă	2002-2004
42. CNMP, CERES 65 / 2002 Dielectrocromatografie plană. Metoda și camera dielectrocromatografică orizontală.	Membru în echipă	2002-2004
43. CNMP, BIOTECH 429 / 2002 Biomateriale compozite pe bază de oligomeri epoxidici modificați ai acizilor nesaturați superiori și sticle de umplere cu aplicare în stomatologia restaurativă.	Membru în echipă	2002-2005
44. MCT, VIASAN 059 / 2001 Sensidiscs pentru antibiografe.	Membru în echipă	2001-2003
45. MCT, GRANT 318/2000 Cercetări privind sinteza și caracterizarea compușilor de alumina modificați chimic.	Membru în echipă	2000-2002
46. MCT, ORIZONT 2000 / 246 (ICRR-MCT) Cercetări privind sinteza și caracterizarea unor noi adsorbanti cu aplicații în industrie, medicină, agricultură și ca faze staționare în cromatografie.	Membru în echipă	1996-2000
47. MCT, ORIZONT 2000 / 246 and 997 (ICRR-MCT) Utilizarea cromatografiei în analiza poluanților din probe de aer, sol și apă	Membru în echipă	1996-2000
48. MCT, Contract 284/B (ICRR-MCT) Elaborarea trusei pentru analiza calitativă a narcoticelor	Membru în echipă	1995-1996

PROIECTE CU TERȚI

1. UBB-ICCRR – S.C. Chemical Independent Group SRL Câmpia Turzii, Activități de servicii și analize fizico-chimice a fertilizanților foliari și stimulatori de creștere pentru plante / Regulator de creștere.	Responsabil contract	2025
2. UBB-ICCRR – S.C. 5M Prodcom S.R.L. Cluj-Napoca Determinarea unor caracteristici fizice ale unor uleiuri.	Membru în echipă	2010
3. UBB-ICCRR – S.C. Electrometal S.R.L. Cluj-Napoca Determinarea unor caracteristici fizice și compoziție a unor uleiuri.	Membru în echipă	2010
4. UBB-ICCRR – S.C. Teraplast S.A. Bistrița Elaborarea unei metode HPLC pentru determinarea diocilftalatului în granule plastificate.	Membru în echipă	2010
5. UBB-ICCRR – S.N. Plafar S.A. București Elaborarea unei metode HPLC pentru determinarea benzoatului de sodiu din diferite matrice.	Membru în echipă	2010
6. ICCRR – S.C. METALICPLAS IMPEX SRL Dej Elaborarea unor metode de determinare a compoziției componentelor (nămol, soluții acide) rezultate în urma procesului tehnologic al sârmei OL-37 și impactul acestora asupra mediului.	Membru în echipă	2002–2008
7. ICCRR – S.C. FARMEC S.A. Cluj-Napoca Analize HPLC pentru Preventol CNK, Preventol O extra și Glutaraldehida componente ai produsului Preventoil CD 601.	Membru în echipă	2003
8. ICRR – Echipa de anchetă și control la frontieră din Cluj-Napoca. Identificarea compoziției unor probe suspecte ca narcotice	Membru în echipă	1999

PROIECTE INSTITUTIONALE - CATEGORIE NATIONAL / PROGRAME DE SUSTINERE A CERCETARII-COMPETITIVITATII-EXCELENTEI - UBB

1. Enhancing the Photocatalytic Activity and Luminescent Properties of Rare-Earth-Doped CeO ₂ Nanoparticles, Contract AGC30708/ 13/02/2025.	Director de proiect	2025
2. Improving Jelly Nutrient Profile with Bioactive Compounds from Pine (Pinus sylvestris L.) Extracts. Contract AGC30709/ 13/02/2025.	Director de proiect	2025
3. Biofortification of Acacia and Polyflower Honey with Pine sylvestris L. Bud Extracts: Exploring Antioxidant Variation Across Developmental Stages for Enhanced Nutritional Value, Contract AGC30710/ 13/02/2025.	Director de proiect	2025
4. The Yeast Fermentation Effect on Content of Bioactive, Nutritional and Anti-Nutritional Factors in Rapeseed Meal, Contract: AGC30425/30. 01.2023	Director de proiect	2023
5. Biopolymer Lipid Hybrid Microcarrier for Transmembrane Inner Ear Delivery of Dexamethasone, Contract: AGC30426/30. 01.2023	Director de proiect	2023
6. Chromatographic profile of major whey proteins in some dairy beverages based on milk serum, Contract AGC30427/30. 01.2023	Director de proiect	2023
7. Antibacterial and Phytochemical Screening of Artemisia Species, Contract AGC32973/23.06.2023	Director de proiect	2023
8. A Flavonoid-Rich Extract of Sambucus nigra L. Reduced Lipid Peroxidation in a Rat Experimental Model of Gentamicin Nephrotoxicity; Contract AGC32318/12.05.2022	Director de proiect	2022
9. In Vitro Antibacterial Susceptibility of Different Pathogens to Thirty Nano-Polyoxometalates; Contract AGC32319/12.05.2022	Director de proiect	2022
10. Simultaneous quantifications of four purine derivatives biomarkers in cow milk by SPE HPLC-DAD; Contract AGC35213/05.10.2021	Director de proiect	2021
11. Bioactive compounds, volatile, and texture profile of muffins after partial substitution of butter and milk; Contract AGC35214/05.10.2021	Director de proiect	2021
12. Determination of nitrate and nitrite content in zonal milk serum and derived dairy drinks using ion-pair reversed-phase high performance liquid chromatography; Contract AGC32437/26.06.2019	Director de proiect	2019
13. Towards understanding the enhancement of antibacterial activity in manganese doped ZnO nanoparticles; Contract AGC33633/24.09.2019	Director de proiect	2019

Mai 2025

Semnătura

CS III. Dr Ing. Miuța Rafila FILIP

