

LISTA DE LUCRĂRI

Conf. dr. bioing. Cătălina A. Peptu

1. Teza de doctorat

„Contribuții privind obținerea de sisteme polimer – principiu activ sub formă de microparticule și filme”

2. Lucrări publicate în jurnale cotate ISI

	Lucrări ISI
1.	Logigan, C.-L.; Peptu, C.; Stan, C.S.; Luta, G.; Tiron, C.E.; Pinteala, M.; Forys, A.; Simionescu, B.; Ibanescu, C.; Tiron, A.; Peptu, C.A. Carbon Dot-Enhanced Doxorubicin Liposomes: A Dual-Functional Nanoplatfrom for Cancer Therapy. International Journal of Molecular Sciences 2025, 26, 7535. https://doi.org/10.3390/ijms26157535
2.	Paduraru, L.; Panainte, A.-D.; Peptu, C.A. ; Apostu, M.; Vieriu, M.; Bibire, T.; Sava, A.; Bibire, N. Smart Drug Delivery Systems Based on Cyclodextrins and Chitosan for Cancer Therapy. Pharmaceuticals 2025, 18, 564. https://doi.org/10.3390/ph18040564
3.	Blaj, D.-A.; Peptu, C.A. ; Balan-Porcarasu, M.; Peptu, C.; Tuchilus, C.G.; Ochiuz, L. Polymer-Free Electrospinning of β -Cyclodextrin-Oligolactide for Magnolol and Honokiol Pharmaceutical Formulations. Pharmaceutics 2025, 17, 130. https://doi.org/10.3390/pharmaceutics17010130
4.	Luca, A.; Cojocaru, F.-D.; Pascal, M.S.; Vlad, T.; Nacu, I.; Peptu, C.A. ; Butnaru, M.; Verestiuc, L. Decellularized Macroalgae as Complex Hydrophilic Structures for Skin Tissue Engineering and Drug Delivery. Gels 2024, 10, 704. https://doi.org/10.3390/gels10110704
5.	Afloarea, O.-T.; Nacu, I.; Verestiuc, L.; Yilmaz, C.N.; Panainte, A.D.; Peptu, C.A. ; Ostafe, I.-G.; Bibire, N. In Vitro and Ex Vivo Evaluation of Novel Methacrylated Chitosan-PNIPAAm-Hyaluronic Acid Hydrogels Loaded with Progesterone for Applications in Vaginal Delivery. Polymers 2024, 16, 2160. https://doi.org/10.3390/polym16152160
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7.	Bibire, T.; Danila, R.; Logigan, C.-L.; Peptu, C.A. ; Cozma, R.S.; Ghiciuc, C.M. Chitosan-Gelatin Micro/Nanoparticles as a Controlled Delivery System of Dexametopfen Trometamol for Topical Applications in Wound Care. Medical-Surgical Journal 2024, 128, 411–421. https://doi.org/10.22551/MSJ.2024.02.21
8.	Leon, M.M.; Mastaleru, A.; Oancea, A.; Alexa-Stratulat, T.; Peptu, C.A. ; Tamba, B.-I.; Harabagiu, V.; Grosu, C.; Alexa, A.I.; Cojocaru, E. Lidocaine-Liposomes-A Promising Frontier for Transdermal Pain Management. Journal of Clinical Medicine 2024, 13, 271. https://doi.org/10.3390/jcm13010271
9.	Logigan, C.-L.; Delaite, C.; Popa, M.; Bacaita, E.S.; Tiron, C.E.; Peptu, C.; Peptu, C.A. Poly(ethylene glycol) Methyl Ether Acrylate-Grafted Chitosan-Based Micro- and

	Nanoparticles as a Drug Delivery System for Antibiotics. <i>Polymers</i> 2024, 16, 144. https://doi.org/10.3390/polym16010144
10.	Sufaru, R.F.; Moraru, M.C.; Gavril, L.C.; Peptu, C.A. ; Chiran, D.A.; Crauciuc, D.V.; Vataavu, R.; Lucasievici, C.G.; Stan, R.T.; Sava, A. Targeting High-Dose Nifedipine-Induced Hypertrophy in Tissues with Hydrocortisone-Loaded Nanocarriers. <i>Romanian Journal of Oral Rehabilitation</i> 2024, 16, 338–355. https://doi.org/10.6261/RJOR.2024.1.16.31
11.	Olariu, M.A.; Filip, T.A.; Peptu, C.A. ; Turcan, I. Screen-Printed Interdigitated Microelectrodes Employment in Dielectrophoretic Manipulation of MWCNTs. <i>Microchimica Acta</i> 2023, 190, 453. https://doi.org/10.1007/s00604-023-06023-3
12.	Diaconu, A.-D.; Logigan, C.-L.; Peptu, C.A. ; Ibanescu, C.; Harabagiu, V.; Peptu, C. Polyurethane Degradable Hydrogels Based on Cyclodextrin-Oligocaprolactone Derivatives. <i>Gels</i> 2023, 9, 755. https://doi.org/10.3390/gels9090755
13.	Peptu, C.; Blaj, D.-A.; Balan-Porcarasu, M.; Peptu, C.A. ; Harabagiu, V. Custom-Modified Oligolactide-Cyclodextrin Derivatives for Electrospun Drug Formulations. <i>European Polymer Journal</i> 2023, 196, 112234. https://doi.org/10.1016/j.eurpolymj.2023.112234
14.	Nacu, I.; Bercea, M.; Nita, L.E.; Peptu, C.A. ; Butnaru, M.; Verestiuc, L. 3D Bioprinted Scaffolds Based on Functionalized Gelatin for Soft Tissue Engineering. <i>Reactive and Functional Polymers</i> 2023, 190, 105636. https://doi.org/10.1016/j.reactfunctpolym.2023.105636
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17.	Sufaru, R.F.; Stan, C.I.; Peptu, C.A. ; Gavril, L.C.; Chiran, D.A.; Crauciuc, D.V.; Vataavu, R.; Sava, A. Tissue Penetrability of Nanoparticles Loaded with Rhodamine B Fluorescent Marker Using a Trimodal Administration Approach. <i>Medical-Surgical Journal</i> 2023, 127, 583–596. https://doi.org/10.22551/MSJ.2023.04.11
18.	Sufaru, R.F.; Stan, C.I.; Peptu, C.A. ; Gavril, L.C.; Chiran, D.A.; Crauciuc, D.V.; Crauciuc, E.G.; Iancu, M.A.; Vataavu, R.; Lucasievici, C.G.; Dumitrescu, A.M.; Sava, A. Histological Findings for the Absorption of Small and Large Liposomes—The Basis of Future Drug Delivery and Contrast Media Systems. <i>Romanian Journal of Morphology and Embryology</i> 2023, 64, 535–542. https://doi.org/10.47162/RJME.64.4.10
19.	Logigan, C.-L.; Delaite, C.; Tiron, C.-E.; Peptu, C.; Popa, M.; Peptu, C.A. Chitosan Grafted Poly (Ethylene Glycol) Methyl Ether Acrylate Particulate Hydrogels for Drug Delivery Applications. <i>Gels</i> 2022, 8, 494. https://doi.org/10.3390/gels8080494
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22.	Peptu, C.A. ; Băcăiță E.S.; Savin, C.-L.; Lutcanu, M.; Agop, M. Hydrogels Based on Alginates and Carboxymethyl Cellulose with Modulated Drug Release-An Experimental and Theoretical Study. <i>Polymers</i> 2021, 13, 4461. https://doi.org/10.3390/polym13244461
23.	Manca, M.L.; Ferraro, M.; Pace, E.; Di Vincenzo, S.; Valenti, D.; Fernandez-Busquets, X.; Peptu, C.A. ; Manconi, M. Loading of Beclomethasone in Liposomes and Hyalurosomes Improved with Mucin as Effective Approach to Counteract the

	Oxidative Stress Generated by Cigarette Smoke Extract. <i>Nanomaterials</i> 2021, 11, 850. https://doi.org/10.3390/nano11040850
24.	Savin, C.-L.; Tiron, C.; Carasevici, E.; Stan, C.S.; Ibanescu, S.A.; Simionescu, B.C.; Peptu, C.A. Entrapment of N-Hydroxyphthalimide Carbon Dots in Different Topical Gel Formulations: New Composites with Anticancer Activity. <i>Pharmaceutics</i> 2019, 11, 303. https://doi.org/10.3390/pharmaceutics11070303
25.	Savin, C.-L.; Popa, M.; Delaite, C.; Costuleanu, M.; Costin, D.; Peptu, C.A. Chitosan-Grafted Poly(ethylene glycol) Methacrylate Nanoparticles as Carriers for Controlled Release of Bevacizumab. <i>Materials Science and Engineering C: Materials for Biological Applications</i> 2019, 98, 843–860. https://doi.org/10.1016/j.msec.2019.01.036
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32.	Alupei, L.; Lisa, G.; Butnariu, A.; Desbrieres, J.; Cadinoiu, A.N.; Peptu, C.A. ; Calin, G.; Popa, M. . New Folic Acid-Chitosan Derivative-Based Nanoparticles—Potential Applications in Cancer Therapy. <i>Cellulose Chemistry and Technology</i> 2017, 51, 631–648.
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3. Lucrări publicate în jurnale BDI

Lucrări publicate în jurnale BDI	
1.	Peptu, C.A. ; Jătariu, A.N.; Indrei, A.; Popa, M. <i>Noi tendințe în eliberarea controlată de medicamente – lipozomi imobilizați în matrici polimere / New Tendencies in Controlled Drug Release—Liposomes Entrapped in Polymer Matrices</i> . Revista Medico-Chirurgicală a Societății de Medici și Naturaliști din Iași 2009, 113, 164–173.
2.	Jătariu, A.N.; Peptu, C.A. ; Popa, M.; Indrei, A. <i>Micro- and Nanoparticles Medical Applications</i> , Revista Medico-Chirurgicală a Societății de Medici și Naturaliști din Iași 2009, 113, 1160–1170.
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4. Cărți și capitole de carte

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5. Lucrări publicate în volume ale unor conferințe

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Semnătura,