

LISTA DE LUCRĂRI

(conform cu prevederile art.15 din H.G. 457/2011)

Dr. chim. Iavorschi Monica

a) Lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări prevăzute de art.15 din Hotărârea nr. 457/2011, modificată;

1. Iavorschi, M., Lupăescu, A.V., Darie-Ion, L., Indeykina, M., Hitruc, G. E., Petre, B. A., Cu and Zn Interactions with Peptides Revealed by High-Resolution Mass Spectrometry, *Pharmaceuticals*, 15(9), p. 1096, 2022. DOI: 10.3390/ph15091096, WOS:000858727300001, FI = 5,215.
2. Lupaescu, A.V., Iavorschi M., Covasa M., The Use of Bioactive Compounds in Hyperglycemia-and Amyloid Fibrils-Induced Toxicity in Type 2 Diabetes and Alzheimer's Disease, *Pharmaceutics* 14(2), p. 235, 2022. DOI: 10.3390/pharmaceutics14020235, WOS:000765107600001, FI = 6,525.
3. Mocanu, C. S., Jureschi, M., Drochioiu, G., Aluminium binding to modified amyloid- β peptides: Implications for alzheimer's disease. *Molecules*, 25(19), p. 4536, 2020. DOI: 10.3390/molecules25194536, WOS:000586635100001, FI = 4,412.
4. Habasescu, L., Jureschi, M., Petre, B.A., Mihai, M., Gradinaru R.V., Murariu, M., Drochioiu, G., Histidine-Lacked A β (1-16) Peptides: pH-Dependent Conformational Changes in Metal Ion Binding, *International Journal of Peptide Research and Therapeutics*, 26(4), p. 2529-2546, 2020. DOI: 10.1007/s10989-020-10048-0, WOS: 000516105500001, FI = 1,931.
5. Jureschi, M., Lupaescu, A.V., Ion, L., Petre, B.A., Drochioiu G., Stoichiometry of heavy metal binding to peptides involved in Alzheimer's disease: mass spectrometric evidence, *Advances in Experimental Medicine and Biology*, 1140, p. 401-415, 2019. DOI: 10.1007/978-3-030-15950-4_23 WOS:000514082500024, FI = 2,450.
6. Jureschi, M., Petre, B.A., Ion, L., Ciobanu, C.I., Sandu, I., Drochioiu G., Synthesis of Different Analogs of A β (9-16) Peptide Mass spectrometric evidence for heavy metal binding, *Revista de Chimie*, 70(9), p. 3348-3353, 2019, WOS: 000489958900054, FI = 1,755.

7. **Jureschi, M.**, Humelnicu, I., Petre, B.A., Ciobanu, C.I., Murariu, M., Drochioiu G., Solid phase synthesis of four analogs of amyloid- β (9-16) peptide: MS and FT-IR characterization, *Revue Roumaine de Chimie*, 64(5), p. 433-443, **2019**, DOI: 10.33224/rrch.2019.64.5.07, WOS: 000493303100007, **FI = 0,381**.
8. Lupaescu, A.V., **Jureschi, M.**, Ciobanu, C.I., Ion, L., Zbancioc, G., Petre, B.A., Drochioiu G., FTIR and MS evidence for heavy metal binding to anti-amyloid NAP-like peptides, *International Journal of Peptide Research and Therapeutics*, 25(1), p. 303-309, **2019**. DOI:10.1007/s10989-018-9672-2, WOS:000457490500030, **FI = 1,500**.
9. Szamosvári, D., Reichle, V.F., **Jureschi, M.**, Böttcher, T., Synthetic quinolone signal analogues inhibiting the virulence factor elastase of *Pseudomonas aeruginosa*, *Chemical Communications*, 52(92), p.13440-13443, **2016**. DOI:10.1039/C6CC06295D, WOS: 000388202900002, **IF = 6,065**.

b) Teza sau tezele de doctorat;

Peptide amiloidice: sinteză, caracterizare și aplicații biomedicale,

Coordonator științific: Prof. univ. dr. Gabi DROCHIOIU, Seria J. Nr. 0047021 în baza Ordinul Ministrului Educației Naționale nr. 6245 din 21 decembrie 2020.

Link susținere: <https://www.chem.uaic.ro/ro/doctorat/sustinere-jureschi-monica.html>

c) Brevete de invenție și alte titluri de proprietate industrială;

d) Cărți și capitole în cărți;

e) Articole/studii *in extenso*, publicate în reviste din fluxul științific internațional principal;

1. **Iavorschi, M.**, Lupăescu, A.V., Darie-Ion, L., Indeykina, M., Hitruc, G. E., Petre, B. A., Cu and Zn Interactions with Peptides Revealed by High-Resolution Mass Spectrometry, *Pharmaceuticals*, 15(9), p. 1096, **2022**. DOI: 10.3390/ph15091096, WOS:000858727300001, **FI = 5,215**.
2. Lupaescu, A.V., **Iavorschi M.**, Covasa M., The Use of Bioactive Compounds in Hyperglycemia-and Amyloid Fibrils-Induced Toxicity in Type 2 Diabetes and Alzheimer's Disease, *Pharmaceutics* 14(2), p. 235, **2022**. DOI: 10.3390/pharmaceutics14020235, WOS:000765107600001, **FI = 6,525**.

3. Mocanu, C. S., **Jureschi, M.**, Drochioiu, G., Aluminium binding to modified amyloid- β peptides: Implications for alzheimer's disease. *Molecules*, 25(19), p. 4536, 2020. DOI: 10.3390/molecules25194536, WOS:000586635100001, **FI = 4,412.**
4. Habasescu, L., **Jureschi, M.**, Petre, B.A., Mihai, M., Gradinaru R.V., Murariu, M., Drochioiu, G., Histidine-Lacked A β (1-16) Peptides: pH-Dependent Conformational Changes in Metal Ion Binding, *International Journal of Peptide Research and Therapeutics*, 26(4), p. 2529-2546, 2020. DOI: 10.1007/s10989-020-10048-0, WOS: 000516105500001, **FI = 1,931.**
5. **Jureschi, M.**, Lupaescu, A.V., Ion, L., Petre, B.A., Drochioiu G., Stoichiometry of heavy metal binding to peptides involved in Alzheimer's disease: mass spectrometric evidence, *Advances of mass spectrometry in biomedical research*, 1140, p. 401-415, 2019. DOI: 10.1007/978-3-030-15950-4_23 WOS:000514082500024, **FI = 2,450.**
6. Lupaescu, A.V., **Jureschi, M.**, Ciobanu, C.I., Ion, L., Zbancioc, G., Petre, B.A., Drochioiu G., FTIR and MS evidence for heavy metal binding to anti-amyloid NAP-like peptides, *International Journal of Peptide Research and Therapeutics*, 25(1), p. 303-309, 2019. DOI:10.1007/s10989-018-9672-2, WOS:000457490500030, **FI = 1,500.**
7. Szamosvári, D., Reichle, V.F., **Jureschi, M.**, Böttcher, T., Synthetic quinolone signal analogues inhibiting the virulence factor elastase of *Pseudomonas aeruginosa*, *Chemical Communications*, 52(92), p.13440-13443, 2016. DOI:10.1039/C6CC06295D, WOS: 000388202900002, **IF = 6,065.**

f) Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate;

1. Lupaescu, A., Petre, B. A., **Iavorschi M.**, Oroian, M., Ion, L., Analysis of protein content and evaluation of antioxidant activity of linden and hawthorn pollen, 22nd International Multidisciplinary Scientific GeoConference SGEM 2022 - Conference proceedings, *Advances in Biotechnology* vol 22, ISSN 1314-2704, 2022.
2. Ion, L., **Jureschi, M.**, Lupaescu, A., Petre, B. A., Drochioiu, G., Metal ions binding to amyloid-beta and neuroprotective NAP-like peptides: MS, FT-IR and AFM investigations., 20th International Multidisciplinary Scientific GeoConference SGEM 2020 - Conference proceedings, *Advances in Biotechnology* vol 20: 259-266, ISBN: 978-619-7603-12-5, ISSN: 1314-2704, 2020. DOI: 10.5593/sgem2020/6.1/s25.034.
3. **Jureschi, M.**, Drochioiu, G., Lupaescu, A.V., Petre, B.A., Ciobanu, C.I., Binding of heavy metal ions to amyloid- β peptides: interactions with NAP peptides., 19th

International Multidisciplinary Scientific GeoConference SGEM 2019 - Conference proceedings, *Advances in Biotechnology 19*, 583-590, ISBN: 978-619-7408-88-1, ISSN: 1314-2704, **2019**. DOI: 10.5593/sgem2019/6.1/S25.075.

4. Ion, L., Drochioiu, G., Lupaescu, A.-V., **Jureschi, M.**, Petre, B.A., Amyloid- β and anti-amyloid peptides involved in Alzheimer's disease: Interactions with metal ions. 19th International Multidisciplinary GeoConference SGEM 2019 - *Conference proceedings, Advances in Biotechnology 19*, 515-522, ISBN: 978-619-7408-88-1, ISSN:1314-2704, **2019**. DOI: 10.5593/sgem2019/6.1/S25.067.
5. Drochioiu, G., Murariu, M., **Jureschi, M.**, Lupaescu, A.-V., Closca, M-C., Heavy metal binding to peptides at higher pH: Novel ESI-MS approach, 18th International Multidisciplinary Scientific GeoConference SGEM 2018 - *Conference proceedings, Advances in Biotechnology 18*, 361-368, ISBN: 978-619-7408-51-5, ISSN:1314-2704, **2018**. DOI: 10.5593/sgem2018/6.2/S25.048.

g) Alte lucrări și contribuții științifice sau, după caz, din domeniul creației artistice.

