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L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Reglementarea translației proteinei structurale Gag de la virusul MMTV la nivel co-transcripțional

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Singh, D., Boeras, I., Singh, G. and Boris-Lawrie, K., *Isolation of Cognate Cellular and Viral Ribonucleoprotein Complexes of HIV-1 RNA Applicable to Proteomic Discovery and Molecular Investigations* Methods Mol Biol. 1354, pp.133-146. doi: 10.1007/978-1-4939-3046-3_9, 2016.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. **Boeraş, I.**, Burcea, A., Bănăduc, D., Florea, D.I. and Curtean-Bănăduc, A., 2024. *Lotic Ecosystem Sediment Microbial Communities' Resilience to the Impact of Wastewater Effluents in a Polluted European Hotspot—Mureş Basin (Transylvania, Romania)*. Water, 16(3), p.402.
2. Oprinca, G.C., Mohor, C.I., Bereanu, A.S., Oprinca-Muja, L.A., Bogdan-Duică, I., Fleacă, S.R., Haşegan, A., Diter, A., **Boeraş, I.**, Cristian, A.N. and Tâlván, E.T., 2024. *Detection of SARS-CoV-2 Viral Genome and Viral Nucleocapsid in Various Organs and Systems*. International Journal of Molecular Sciences, 25(11), p.5755
3. Oprinca, G.C., Mohor, C.I., Oprinca-Muja, A., Haşegan, A., Cristian, A.N., Fleacă, S.R., **Boeraş, I.**, Cardoso, R., Atasie, D., Mihalache, M. and Mihalache, C., 2024. *Unveiling the Pathological Mechanisms of Death Induced by SARS-CoV-2 Viral Pneumonia*. Microorganisms, 12(3), p.459.
4. Mohor, C.I., Oprinca, G.C., Oprinca-Muja, A., Fleacă, S.R., Boicean, A., **Boeraş, I.**, Roman, M.D. and Mohor, C.I., 2024. *Vertical transmission of SARS-CoV-2 from mother to fetus*. Pathology, 56(1), pp.107-110.
5. Benedek, A.M., **Boeraş, I.**, Lazăr, A., Sandu, A., Cocîrlea, M.D., Stănciugelu, M., Cic, N.V. and Postolache, C., 2024. *Effects of Season, Habitat, and Host Characteristics on Ectoparasites of Wild Rodents in a Mosaic Rural Landscape*. Animals, 14(2), p.304.
6. Boicean, A., Birsan, S., Ichim, C., **Boeras, I.**, Roman-Filip, I., Blanca, G., Bacila, C., Fleaca, R.S., Dura, H. and Roman-Filip, C., 2023. *Has-miR-129-5p's involvement in different disorders, from digestive cancer to neurodegenerative diseases*. Biomedicines,

11(7), p.2058.

7. **Boeraş, I.**, Curtean-Bănăduc, A., Bănăduc, D. and Cioca, G., 2022. *Anthropogenic sewage water circuit as vector for SARS-CoV-2 viral ARN transport and public health assessment, monitoring and forecasting—Sibiu metropolitan area (Transylvania/Romania) study case*. International journal of environmental research and publichealth, 19(18), p.11725.
8. **Boeraş, I.**, Burcea, A., Coman, C., Bănăduc, D. and Curtean-Bănăduc, A., *Bacterial Microbiomes in the Sediments of Lotic Systems Ecologic Drivers and Role: A Case Study from the Mureş River, Transylvania, Romania*. Water, 13(24), p.3518, 2021.
9. Burcea, A., **Boeraş, I.**, Mihuş, C.M., Bănăduc, D., Matei, C. and Curtean-Bănăduc, A., *Adding the Mureş River Basin (Transylvania, Romania) to the list of hotspots with high contamination with pharmaceuticals*. Sustainability, 12(23), p.10197, 2020.
10. Brady, S., Singh, G., Bolinger, C., Song, Z., **Boeras, I.**, Weng, K., Trent, B., Brown, W.C., Singh, K., Boris-Lawrie, K. and Heng, X., *Virion-associated, host-derived DHX9/RNA helicase A enhances the processivity of HIV-1 reverse transcriptase on genomic RNA*. Journal of Biological Chemistry, pp.jbc-RA119, 2019.
11. **Boeras, I.**, Seufzer, B., Brady, S., Rendahl, A., Heng, X. and Boris-Lawrie K., *The basal translation rate of authentic HIV-1 RNA is regulated by 5'UTR nt-pairings at junction of R and U5*. Scientific Reports. doi: 10.1038/s41598-017-06883-9, 2017.
12. **Boeras, I.**, Song, Z., Moran, A., Franklin, J., Brown, W.C., Johnson, M., Boris-Lawrie, K. and Heng, X., *DHX9/RHA Binding to the PBS-Segment of the Genomic RNA during HIV-1 Assembly Bolsters Virion Infectivity*. Journal of Molecular Biology, 428(11), pp. 2418-2429. doi: 10.1016/j.jmb.2016.04.011, 2016.
13. **Boeras, I.**, Sakalian, M. and West J.T., *Translation of MMTV Gag requires nuclear events involving splicing motifs in addition to the viral Rem protein and RmRE*. Retrovirology 9:8. doi: 10.1186/1742-4690-9-8. (Highly accessed and editor's pick), 2012.