



<http://news.doctorat.ubbcluj.ro/>

Doctoral School of Integrative Biology

1. PhD Student:

Name Voica (cas Buda), **First name** Doriana-Mădălina

e-mail: doriana.buda@gmail.com

2. Doctorate

2.1. PhD thesis title: Molecular mechanisms involved in the adaptation to toxic levels of heavy metals in halophilic microorganisms

2.2. PhD coordinator: prof. dr. Horia Leonard Banciu

3. Scientific articles published in:

3.1. Impact factor journals (IF, AIS):

3.1.1. Voica D.M., Bartha L., Banciu H. L., Oren A. (2016). Heavy metal resistance in halophilic Bacteria and Archaea. *FEMS Microbiol Lett*, **363**(14), fnw146. DOI: <https://doi.org/10.1093/femsle/fnw146>; **IF:** 0.476; **AIS:** 0.627

3.1.2. Buda, D.M., Bulzu P.A., Barbu-Tudoran L., Porfire A., Pătraș L., Sesărman A., Tripon S., Șenilă M., Ionescu M.I., Banciu H.L. (2019). Physiological response to silver toxicity in the extremely halophilic archaeon *Halomicrobium mukohataei*. *FEMS Microbiol Lett*, **366**(18), fnz231. DOI: <https://doi.org/10.1093/femsle/fnz231>; **IF:** 0.464; **AIS:** 0.598

3.1.3. Drugă, B., Buda, D.M., Szekeres, E., Chiș, C., Chiș, I., Sicora, C. (2019). The impact of cation concentration on *Microcystis* (cyanobacteria) scum formation. *Sci Rep*, **9**(1), 3017. DOI: <https://doi.org/10.1038/s41598-019-39619-y>; **IF:** 1.343; **AIS:** 1.263

3.2. IDB journals:



3.2.1.

Buda, D. M., Bulzu P. A., **Cristea, A.**, Banciu, H. L. (2019). The saline aquatic systems as 'natural reservoirs' for microorganisms with current and potential applications. *Aerul și Apa: Componente ale Mediului/ Air and Water: Components of the Environment*, ISSN 2067-743X. pp. 427-434. doi: 10.24193/AWC2019_42.

(https://www.researchgate.net/publication/334063299_The_Saline_Aquatic_Systems_As_'Natural_Reservoirs'_For_Microorganisms_with_Current_and_Potential_Applications)

3.3. Other journals:

3.3.1. NA

3.4. Books and/or Chapters

3.4.1. NA

4. Scientific conferences/symposia (please mention the author/s, title of the conference/symposium, year, country, link)

4.1. International:

- 4.1.1. **Voica, D.M.**, Barbu-Tudoran, L., Banciu, H.L. (2015). Silver resistance in haloarchaeal strains isolated from Transylvanian Salt Lake, SRBC 7th National Congress with International Participation and 33rd Annual Scientific Session of the Romanian Society for Cell Biology, June 2015.
- 4.1.2. **Voica, D.M.**, Barbu-Tudoran, L., Banciu, H.L. (2015). Haloarchaeal production of silver nanoparticles with applications as antimicrobial agents, RSBMB Anniversary 25th Conference, Romanian Academy, Bucharest, 17-18 September 2015.
- 4.1.3. **Buda, D.M.**, Porfire, A., Leopold, N., Tripon, S., Banciu., H.L. (2017). Biosynthesis of silver nanoparticles by the haloarchaeal strain *Halomicrobium mukohataei* DSM12286, Young Reserchers in Sciences - International Symposium, 4th edition, Cluj- Napoca, 14- 19 August 2017.



- 4.1.4. Buda, D.M.,** Tincu, S., Tripon, S., Porfire, A., Pătraş, L., Banciu, H. L. (2018). Capacity of *Halomicrobium mukohataei* to overcome the oxidative stress caused by the presence of silver salts, RSBMB Anual International Conference, Bucharest, 5-7 September 2018.
- 4.1.5. Buda, D.M.,** Pintea, A., Dulf, F.V., Banciu, H.L. (2018). Survey of the phospholipid fatty acids composition of three Romanian salt lakes, RSBMB Anual International Conference, Bucharest, 5-7 September 2018.
- 4.1.6. **Buda D.M.,** Bulzu P.A., Barbu-Tudoran L., Porfire A., Pătraş L., Sesărman A., Tripon S., Banciu H.L. “Capacity of *Halomicrobium mukohataei* DSM 12886 to overcome silver-induced oxidative stress”. 12th International Conference on Halophilic Microorganisms, June 24-28 2019, Cluj-Napoca, Romania
- 4.1.7. **Buda D.M,** Bulzu P.A, Zety A., Banciu, H.L. „Comparative transcriptome analysis of *Haloferax alexandrinus* under stress-inducing silver levels”. The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology Iaşi, 26-27th September, 2019.

4.2. National:

4.2.1. NA

5. Projects/Grants:

5.1. Scientific projects/grants:

5.1.1. Monitoring and risk assessment for groundwater sources in rural communities of Romania (GROUNDWATERISK), project code: EEA-RO-NO-2018-0138, contract nr. 4/2019. (2018-2023), Babeş-Bolyai University as Partner P2 in the project. Responsible P2 – Prof. Dr. Banciu Horia Leonard. (<https://www.groundwaterisk.com/>)

5.1.2. Ecogenomics of uncultured microorganisms to unravel their functional roles in biogeochemical nutrient cycling in hypersaline stratified lake (UnCycle), Project code PN-III-P4-ID-PCE-2020-1559, contract nr. 64/2021. (2021-2023), Babeş-Bolyai University as Coordinator of the project. Responsible Prof. Dr. Banciu Horia Leonard.

5.2. Projects for the community:



5.2.1. NA

(please mention the title of the project/grant, period, coordinating institution, link)

6. Visibility (links):

6.1. Google Scholar: <https://scholar.google.com/citations?user=mjpTTGQAAAAJ&hl=ro>

6.2. ResearchGate: https://www.researchgate.net/profile/Doriana_Buda

6.3. Twitter (#AcademicTwitter): NA

6.4. ORCID: <https://orcid.org/0000-0001-9062-4359>

Date

22.04.2020

Signature