



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Horia Leonard Banciu**
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 Fax(es) +40-264431858
 E-mail Horia.Banciu@ubbcluj.ro

Nationality Romanian

Date of birth 8 August 1974

Gender Male

Desired employment / Occupational field **Member of Doctoral School of Integrative Biology, Faculty of Biology and Geology, "Babeş-Bolyai" University of Cluj-Napoca**

Work experience

Dates	2017 – Present
Occupation or position held	Professor
Main activities and responsibilities	Teaching and research
Name and address of employer	Babeş-Bolyai University, 1 Kogalniceanu Street, Cluj-Napoca, Romania
Type of business or sector	Academic teaching and research

Dates	2012 –2017
Occupation or position held	Associate Professor
Main activities and responsibilities	Teaching and research

Name and address of employer	Babeş-Bolyai University, 1 Kogalniceanu Street, Cluj-Napoca, Romania
Type of business or sector	Academic teaching and research
Dates	2004 – 2012
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching and research
Name and address of employer	Babeş-Bolyai University, 1 Kogalniceanu Street, Cluj-Napoca, Romania
Type of business or sector	Academic teaching and research
Dates	1997 – 2004
Occupation or position held	Tutor/Teaching assistant
Main activities and responsibilities	Teaching and research
Name and address of employer	Babeş-Bolyai University, 1 Kogalniceanu Street, Cluj-Napoca, Romania
Type of business or sector	Academic teaching and research
Education and training	
Dates	2015
Title of qualification awarded	Habilitation Degree / PhD supervisor
Principal subjects/occupational skills covered	Microbial physiology and diversity, Molecular Biology, Bioinformatics
Name and type of organisation providing education and training	Institute of Doctoral Studies/ Doctoral School of Integrative Biology; Babeş-Bolyai University of Cluj-Napoca, Romania
Level in national or international classification	No classification in Shanghai Ranking
Dates	2002-2004
Title of qualification awarded	PhD.
Principal subjects/occupational skills covered	Microbial physiology and biotechnology
Name and type of organisation providing education and training	TU Delft, The Netherlands
Level in national or international classification	Top 200 in Shanghai Ranking (2010)
Dates	1999

Title of qualification awarded	Research assistant
Principal subjects/occupational skills covered	Molecular biology of extremophilic bacteria
Name and type of organisation providing education and training	Mount Sinai School of Medicine New York City, U.S.A.
Level in national or international classification	Top 200 in Shanghai Ranking (2010)
Dates	1998
Title of qualification awarded	MSc.
Principal subjects/occupational skills covered	Cell and molecular biology
Name and type of organisation providing education and training	Faculty of Biology and Geology, Babes-Bolyai University of Cluj-Napoca, Romania
Level in national or international classification	No classification in Shanghai Ranking
Dates	1997
Title of qualification awarded	BSc.
Principal subjects/occupational skills covered	Biology
Name and type of organisation providing education and training	Faculty of Biology and Geology, Babes-Bolyai University of Cluj-Napoca, Romania
Level in national or international classification	No classification in Shanghai Ranking

Personal skills and competences

Mother tongue(s) **Specify mother tongue** Romanian

Other language(s)

Self-assessment

European level (*)

English

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
GOOD	GOOD	GOOD	GOOD	GOOD

(*) [Common European Framework of Reference for Languages](http://europa.europa.eu/education/languages/docs/cefr_en.pdf)

Social skills and competences Team spirit and good communication skills

Organisational skills and competences Research grant member and manager, between 2006-2015

Technical skills and competences	Related to laboratory work experience
Computer skills and competences	Basic knowledge in Windows and Office
Other skills and competences	Professional skill: cell and molecular biology techniques (cloning, transformation, PCR), broad knowledge in biochemistry, biophysics, genetics, microbiology, biotechnology. I am used to techniques of membrane protein purification by gel chromatography, gradient centrifugation, gel electrophoresis, Western blotting, HPLC, characterization of proteins by spectrophotometry, spectrofluorometry, membrane vesicles preparation; practical knowledge of bacteriology and applied microbiology, bacterial cell cultivation and identification. Applying basic bioinformatics tools for pairwise (EMBOSS) and multiple sequence alignments (CLUSTAL, MAFFT, MUSCLE), fast similarity search (BLAST) and phylogenetic tree construction (MEGA)
Annexes	Appendix 1: List of Research projects as principal investigator Appendix 2: List of awards Appendix 3 : List of most relevant 10 publications Appendix 4 : List of organized and invited conferences Appendix 5 : Extended list of publication

List of research projects as principal investigator**(main coordinator or partner team leader)**

No	Title	Interval	Budget	Tasks
1.	Ecogenomics of uncultured microorganisms to unravel their functional roles in biogeochemical nutrient cycling in hypersaline stratified lake (UnCycle); cod PN-III-P4-ID-PCE-2020-1559, nr. contract PCE 64/ 2021	2021-2023	1.198.032 RON / 240.000 Euro	Principal investigator/ main coordinator
2.	Monitoring and risk assessment for groundwater sources in rural communities of Romania (GROUNDWATERISK); cod EEA-RO-NO-2018-0138, Contract no. 4 / 2019 (Director: CS I Dr. Oana Moldovan)	2019-2023	400.000 Euro	Team Leader for the Partner "Babeş-Bolyai" University of Cluj- Napoca
3.	Food chains in the dark: diversity and evolutionary processes in caves (DARKFOOD), code PN-III-P4-ID-PCCF-2016-0016, Contract no. 15/10.10.2018 (Director: CS I Dr. Oana Moldovan)	2018-2022	2.000.000 RON / 430.000 Euro	Team Leader for the Partner "Babeş-Bolyai" University of Cluj- Napoca
4.	Enlightening the dark: microbial diversity and functionality in sapropels from Romanian salt lakes (ERebuS), code PN-III-P4-ID-PCE-2016-0303, Contract no. 103/12.07.2017	2017-2019	850.000 RON/ 180.000 Euro	Principal investigator/ main coordinator
5.	Diversity of Archaea Inhabiting Saline Lakes from Transylvanian Basin (Central Romania) Code PN II-PCE-3-0546, Contract no. 186/2011.	2011-2016	1,500,000 RON/ 300,000 Euro	Principal investigator/ main coordinator
6.	Modeling of heavy metal impact on aquifers by complex investigations using hyporheic fauna and GRID monitoring system. Proiect CDI II, Code 1247, Contract No. 31-032/14.09.2007	2007-2010	157,601 RON/ 45,000 Euro	Team Leader for the Partner "Babeş-Bolyai" University of Cluj- Napoca
7.	Energy conservation in double extremophilic bacteria: basic and applicative research. CEEX Grant, Code 85, type ET, Contract No. 5913/ 18.09.2006	2006-2008	140,250 RON/ 40,000 Euro	Principal investigator/ main coordinator
8.	Purification of avidin from chicken egg yolk for using in immunochemical assays. C.N.C.S.I.S. Grant, Code 88, type AT, Contract No. 2771/ 23.05.2006.	2006-2007	31,500 RON/ 10,000 Euro	Principal investigator/ main coordinator

List of awards

- 2002 – Best poster award** at EURO Summer School “The Sulfur Cycle in Environmental Technology”, 12-17 May, Wageningen, The Netherlands;
- 2003 - Yakult Best Poster Award** at Annual Session of the Dutch Society for Microbiology, 15-16 April, Arnhem-Papendal, The Netherlands.
- 2005 – “Babes-Bolyai” University Award** (Nr. 30485 / 14.04.2005) for the book „Physiology of alkaliphilic sulfur-oxidizing bacteria from soda lakes”, Optima Grafische Communicatie BV, Rotterdam, The Netherlands, 2004, ISBN 90-77595-87-2
- 2006 - „In Hoc Signo Vincas” Award of Life Science Committee of C.N.C.S.I.S (Romanian Council for Academic Research).**
- 2006 – “Babeş-Bolyai” University award** (No. 20639 / 11.12.2006) for research achievements.
- 2015 – *Excellentia* award for research achievements of The Student Council of “Babeş-Bolyai” University of Cluj-Napoca.**
- 2017 - “Emanoil Teodorescu” Award of The Romanian Academy** (Biological Science).

List of most relevant 10 publications

1. Andrei A.Ş., **Banciu H.L.**, Oren A. (2012) Living with salt: metabolic and phylogenetic diversity of archaea inhabiting saline ecosystems. *FEMS Microbiol Lett.* **330** (1), 1-9. <https://doi.org/10.1111/j.1574-6968.2012.02526.x>
2. **Banciu, H.L.**, Sorokin, D. (2014) Adaptation in Haloalkaliphiles and Natronophilic Bacteria, In: J. Seckbach, A. Oren and H. Stan-Lotter, Eds, „Polyextremophiles: Life Under Multiple Forms of Stress”, Cellular Origin, Life in Extreme Habitats and Astrobiology 27, Springer Science+Business Media, Dordrecht, pp. 121–178, ISBN 978-94-007-6487-3.
3. Andrei, A.-Ş., Robeson, M.S., Baricz, A., Coman, C., Muntean, V., Ionescu, A., Etiope, G., Alexe, M., Sicora, C.I., Podar, M., **Banciu, H.L.** (2015). Contrasting taxonomic stratification of microbial communities in two hypersaline meromictic lakes. *ISME J.*, **9** (12): 2642-2656. <https://doi.org/10.1038/ismej.2015.60>
4. **Banciu, H.L.**, Muntyan, M.S. (2015). Adaptive strategies in the double-extremophilic prokaryotes inhabiting soda lakes. *Curr Opin Microbiol*, **25**: 73-79. <https://doi.org/10.1016/j.mib.2015.05.003>
5. Voica, D.M., Barthä, L., **Banciu, H.L.**, Oren, A. (2016). Heavy metal resistance in halophilic *Bacteria* and *Archaea*. *FEMS Microbiol. Lett.* **363**(14): fnw146. <https://doi.org/10.1093/femsle/fnw146> .
6. Andrei, A.-Ş., Păușan, M. R., Tămaș, T., Har, N., Barbu-Tudoran, L., Leopold, N., **Banciu, H. L.** (2017). Diversity and biomineralization potential of the epilithic bacterial communities inhabiting the oldest public stone monument of Cluj-Napoca (Transylvania, Romania). *Front Microbiol.*, **8**: 372. <https://doi.org/10.3389/fmicb.2017.00372>
7. Cristea, A., Baricz, A., Leopold, N., Floare, C., Borodi, G., Kacso, I., Tripon, S., Bulzu, P.-A., Andrei, A. Ş., Cadar, O., Levei, E. A., **Banciu, H.L.** (2018) Polyhydroxybutyrate production by an extremely halotolerant *Halomonas elongata* strain isolated from the hypersaline meromictic Fără Fund Lake (Transylvanian Basin, Romania). *J. Appl. Microbiol.*, 125 (5): 1343—1357. <https://doi.org/10.1111/jam.14029>
8. Lee, C.J., McMullan, P.E., O’Kane, C.J., Stevenson, A., Santos, I.C., Roy, C., Ghosh, W., Mancinelli, R.L., Mormile, M.R., McMullan, G., **Banciu, H.L.**, Fares, M.A., Benison, K.C., Oren, A., Dyll-Smith, M.L., Hallsworth, J.E. (2018). NaCl-saturated brines are thermodynamically moderate, rather than extreme, microbial habitats. *FEMS Microbiol. Rev.*, **42** (5): 672–693. <https://doi.org/10.1093/femsre/fuy026>
9. Bulzu, P.-A., Andrei, A.-Ş., Salcher, M.M., Mehrshad, M., Inoue, K., Kandori, H., Bèjà, O., Ghai, R., **Banciu, H.L.** (2019) Casting light on Asgardarchaeota metabolism in a sunlit microoxic niche. *Nat. Microbiol.* **4**: 1129–1137. <https://doi.org/10.1038/s41564-019-0404-y> .
10. Baricz, A., Chiriac, C.M., Andrei, A.-Ş., Bulzu, P.-A., Levei, E.A., Cadar, O., Battaes, K.P. Cîmpean, M., Şenilă, M., Cristea, A., Muntean, V., Alexe, M., Coman, C., Szekeres, E.K., Sicora, C.I., Ionescu, A., Blain, D., O’Neill, W.K., Edwards, J., Hallsworth, J.E., **Banciu, H.L.** (2020) Spatio-temporal insights into microbiology of the freshwater-to-hypersaline, oxic-hypoxic-euxinic waters of Ursu Lake. *Environ. Microbiol.* <https://doi.org/10.1111/1462-2920.14909> .

H-Index (WoS/Scopus/GS): 17/17/20

ResearcherID/Publons: <https://publons.com/researcher/2807715/horia-l-banciu/>

ORCID: <http://orcid.org/0000-0002-6563-3226>

Google Scholar: https://scholar.google.ro/citations?user=XW6_3FcAAAJ&hl=en

Personal homepage : <https://banciuhoria.wordpress.com/>

List of organized and invited conferences

2019

Main organizer of *The 12th International Conference on Halophilic Microorganisms – Halophiles 2019*, 24-28 June, 2019, Cluj-Napoca, Romania.

Awarded with Meeting Organizer Grant Meeting, cod FEMS-GO-2018-09, Budget: 4000 Euro.

2012

Invited speaker at the Annual Session („A New Approach of the Academic Research in Biology”) of the Institute of Biology, Romanian Academy, Bucharest, 12-13 December, 2012.

- Andrei, A.-Ș., Baricz, A., Muntean, V., Coman, C., Keresztes, Zs. G., Alexe, M., **Banciu, H.** Diversity of archaeal community in the chemocline of a hypersaline lake in the Transylvanian Basin (Romania). Book of Abstracts, p.40 - 41.

2016

Invited speaker at The 11th International Conference on Halophilic Microorganisms (Halophiles 2016), 22-27 May 2016, San Juan, Puerto Rico.

- **Banciu, H.L.**, Andrei, A.-Ș., Baricz, A., Muntean, V., Alexe, M., Podar, M. „Microbial diversity in permanently stratified hypersaline lakes of the Transylvanian Basin, central Romania.”

Invited speaker at The 56th Annual Session („85 ani de cercetare în domeniul microbiologiei”) of The Institute of Biology, Romanian Academy, Bucharest, 9 December, 2016.

- Baricz A., Battaes K.P., Cîmpean M., Andrei A.-Ș., Chiriac C., Levei E.A., Momeu L., Cristea A., Pop D.A., Alexe M., Muntean V., **Banciu H.L.**, ”Un an de studiu integrat al vieții microscopice din lacul Ursu (Sovata, România)”. Volumul : INSTITUTUL DE BIOLOGIE. Sesiune anuală de comunicări științifice (ISBN 978-973-558-953-0), p. 41-45.

Extended list of publications

Professor *Habil.* Horia Leonard BANCIU, PhD.

Department of Molecular Biology and Biotechnology, Faculty of Biology and Geology, "Babeş-Bolyai" University of Cluj-Napoca

Contents:

- a) PhD Thesis;
- b) Books and book chapters;
- c) Articles published in peer-review journals;
- d) Publications in international proceedings;
- e) Publication in indexed and non-indexed journals and volumes.

a) PhD Thesis

PhD in Biology – Delft University of Technology, The Netherlands – **November 1st, 2004.**

Title of PhD Thesis: ***"Physiology of alkaliphilic sulfur-oxidizing bacteria from soda lakes"***.

(<https://repository.tudelft.nl/islandora/object/uuid%3Aaf937601-7857-4326-ae2c-fb6b02ba0b69>)

Supervisor: **Professor Gijs J. Kuenen.**

Doctoral title was recognized by the Romanian Ministry of Education, Research and Youth by the **Attestation No. 8472 / 27.04.2005.**

b) Books and book chapters:

b-1) Books

Banciu, H., L. „Physiology of alkaliphilic sulfur-oxidizing bacteria from soda lakes”, Optima Grafische Communicatie BV, Rotterdam, Olanda, 2004, pp. 154. **ISBN 90-77595-87-2.**

Tarba, C., **Banciu H., L.**, Biofizică. Editura Risoprint, Cluj-Napoca, 2010, pp. 216. **ISBN 978-973-53-0215-3**

b-2) Book chapters

Sorokin, D.Y., **Banciu, H.**, Robertson, L.A., Kuenen, J.G. (2006) Haloalkaliphilic Sulfur-Oxidizing Bacteria, in *The Prokaryotes: A Handbook on the Biology of Bacteria – 3rd Edition* (Dworkin, M., Falkow, S., Rosenberg, E., Schleifer, K.-H., Stackebrandt, E., Eds.) Springer-Verlag, New York, pp. 969-984. **ISBN 978-0387254999**

Sorokin, D.Y., **Banciu, H.**, Robertson, L.A., Kuenen, J.G., Muntyan, M.S., Muyzer, G. (2013) Halophilic and Haloalkaliphilic Sulfur-Oxidizing Bacteria, in *The Prokaryotes (4th Edition): Prokaryotic Physiology and Biochemistry* (Rosenberg, E., DeLong, E.F., Lory, S., Stackebrandt, E., Thompson, F., Eds.), Springer-Verlag, Berlin, pp. 529-554. **ISBN 978-3-642-30140-7.**

Banciu, H.L., Sorokin, D. (2014) Adaptation in Haloalkaliphiles and Natronophilic Bacteria, In: J. Seckbach, A. Oren and H. Stan-Lotter, Eds, „Polyextremophiles: Life Under Multiple Forms of Stress”, Cellular Origin, Life in Extreme Habitats and Astrobiology 27, Springer Science+Business Media, Dordrecht, pp. 121–178, **ISBN 978-94-007-6487-3.**

Andrei, A.-Ş. Bulzu. P.-A., **Banciu, H.L.** (2020) Blossoms of rot: microbial diversity of saline sapropels. In: Extremophiles as Astrobiological Models. J. Seckbach and H. Stan-Lotter (eds), Series Astrobiology Perspectives on Life of the Universe (Series editors R. Gordon and J. Seckbach), Wiley-Scivener, Beverly, MA, USA, **ISBN 978-1119591689**, pp.45-82. <https://doi.org/10.1002/9781119593096.ch3>

c) Articles published in peer-review journals

c-1) Articles published in journals with impact factor as main author

1. **Banciu, H.**, Sorokin, D.Y., Kleerebezem, R., Muyzer, G., Galinski, E.A., Kuenen, J.G. (2004) Growth kinetics of haloalkaliphilic sulfur-oxidizing bacterium *Thioalkalivibrio versutus* strain ALJ 15 in continuous culture, *Extremophiles* **8** (3): 185-192. <https://doi.org/10.1007/s00792-004-0376-5>
2. **Banciu, H.**, Sorokin, D.Y., Muyzer, G., Kleerebezem, R., Galinski, E.A., Kuenen, J.G. (2004) *Thioalkalivibrio halophilus* sp. nov, a novel obligately chemolithoautotrophic facultatively alkaliphilic and extremely salt-tolerant sulfur-oxidizing bacterium from a hypersaline alkaline lake. *Extremophiles* **8** (4): 325-334. <https://doi.org/10.1007/s00792-004-0391-6>
3. **Banciu, H.**, Sorokin, D.Y., Rijpstra, W.I., Sinninghe Damste, J.S., Galinski, E.A., Takaichi, S., Muyzer, G., Kuenen, J.G. (2005) Fatty acid, compatible solute and pigment composition of obligately chemolithoautotrophic alkaliphilic sulfur-oxidizing bacteria from soda lakes. *FEMS Microbiol Lett.* **243** (1):181-187. <https://doi.org/10.1016/j.femsle.2004.12.004>
4. **Banciu, H.L.**, Sorokin, D.Y., Tourova, T.P., Galinski, E.A., Muntyan, M.S., Kuenen, J.G., Muyzer, G. (2008) Influence of salts and pH on growth and activity of a novel facultatively alkaliphilic, extremely salt-tolerant, obligately chemolithoautotrophic sulfur-oxidizing Gammaproteobacterium *Thioalkalibacter halophilus* gen. nov., sp. nov. from South-Western Siberian soda lakes. *Extremophiles*. **12** (3), 391-404. <https://doi.org/10.1007/s00792-008-0142-1>
5. Andrei A.Ş., **Banciu H.L.**, Oren A. (2012) Living with salt: metabolic and phylogenetic diversity of archaea inhabiting saline ecosystems. *FEMS Microbiol Lett.* **330** (1), 1-9. <https://doi.org/10.1111/j.1574-6968.2012.02526.x>
6. Baricz, A., Coman, C., Andrei, A.Ş., Muntean, V., Keresztes, Z.G., Păusan, M., Alexe, M., **Banciu, H.L.** (2014) Spatial and temporal distribution of archaeal diversity in meromictic, hypersaline Ocnei Lake (Transylvanian Basin, Romania). *Extremophiles*, **18** (2): 399-413. <https://doi.org/10.1007/s00792-013-0625-6>
7. Baricz, A., Cristea, A., Muntean, V., Teodosiu, G., Andrei, A.-S., Molnar, I., Alexe, M., Rakosy-Tican, E., **Banciu, H.L.** (2015) Culturable diversity of aerobic halophilic archaea (Fam. *Halobacteriaceae*) from hypersaline, meromictic Transylvanian lakes. *Extremophiles*, **19** (2): 525-537. <https://doi.org/10.1007/s00792-015-0738-1>
8. Bartha, L., Sramkó, G., Volkova, P. A., Surina, B., Ivanov, A. L., **Banciu, H. L.** (2015) Patterns of plastid DNA differentiation in *Erythronium* (Liliaceae) are consistent with allopatric lineage divergence in Europe across longitude and latitude. *Plant Syst Evol*, **301** (6): 1747-1758. <https://doi.org/10.1007/s00606-014-1190-x>
9. Andrei, A.-Ş., Robeson, M.S., Baricz, A., Coman, C., Muntean, V., Ionescu, A., Etiopie, G., Alexe, M., Sicora, C.I., Podar, M., **Banciu, H.L.** (2015). Contrasting taxonomic stratification of microbial communities in two hypersaline meromictic lakes. *ISME J.*, **9** (12): 2642-2656.
10. **Banciu, H.L.**, Muntyan, M.S. (2015). Adaptive strategies in the double-extremophilic prokaryotes inhabiting soda lakes. *Curr Opin Microbiol*, **25**: 73-79. <https://doi.org/10.1016/j.mib.2015.05.003>
11. Voica, D.M., Bartha, L., **Banciu, H.L.**, Oren, A. (2016). Heavy metal resistance in halophilic *Bacteria* and *Archaea*. *FEMS Microbiol. Lett.* **363**(14). pii: fnw146. <https://doi.org/10.1093/femsle/fnw146>.
12. Andrei, A.Ş., Baricz, A., Păusan, M., Muntean, V., Sicora, C., Alexe, M., Rakosy-Tican, E., **Banciu, H.L.** (2017) Spatial distribution and molecular diversity of archaeal communities in the extreme hypersaline meromictic Brâncoveanu Lake (Transylvanian Basin, Romania). *Geomicrobiol. J.*, **34** (2): 130-138. <https://doi.org/10.1080/01490451.2016.1149527>
13. Andrei, A.-Ş., Păuşan, M. R., Tămaş, T., Har, N., Barbu-Tudoran, L., Leopold, N., **Banciu, H. L.** (2017). Diversity and biomineralization potential of the epilithic bacterial communities inhabiting the oldest public stone monument of Cluj-Napoca (Transylvania, Romania). *Front Microbiol.*, **8**: 372. <https://doi.org/10.3389/fmicb.2017.00372>

14. Dina, N.E., Leş, A., Baricz, A., Szöke-Nagy, T., Leopold, N., Sârbu, C., **Banciu, H.L.** (2017) Discrimination of haloarchaeal genera using Raman spectroscopy and robust methods for multivariate data analysis. *J Raman Spectrosc.* **48** (8): 1122-1126. <https://doi.org/10.1002/jrs.5187>
15. Andrei, A.Ş., Baricz, A., Robeson, M.S., Păuşan, M.R., Tămaş, T., Chiriac, C., Szekeres, E., Barbu-Tudoran, L., Levei, E.A., Coman, C., Podar, M., Banciu, H.L. (2017) Hypersaline sapropels act as hotspots for microbial dark matter. *Sci. Rep.* **7** (1): 6150. <https://doi.org/10.1038/s41598-017-06232-w>
16. Alexe, M., Şerban, G., Baricz, A., Andrei, A. Ş., Cristea, A., Bătes, K., Cîmpean, M., Momeu, L., Muntean, V., Porav, S.A., **Banciu, H. L.** (2018). Limnology and plankton diversity of salt lakes from Transylvanian Basin (Romania): A review. *J. Limnol.*, **77** (1): 17-34. <https://doi.org/10.4081/jlimnol.2017.1657>
17. Cristea, A., Baricz, A., Leopold, N., Floare, C., Borodi, G., Kacso, I., Tripon, S., Bulzu, P.-A., Andrei, A. Ş., Cadar, O., Levei, E. A., **Banciu, H.L.** (2018) Polyhydroxybutyrate production by an extremely halotolerant *Halomonas elongata* strain isolated from the hypersaline meromictic Fără Fund Lake (Transylvanian Basin, Romania). *J. Appl. Microbiol.*, **125** (5): 1343–1357. <https://doi.org/10.1111/jam.14029>
18. Bulzu, P.-A., Andrei, A.-Ş., Salcher, M.M., Mehrshad, M., Inoue, K., Kandori, H., Béjà, O., Ghai, R., **Banciu, H.L.** (2019) Casting light on Asgardarchaeota metabolism in a sunlit microoxic niche. *Nat. Microbiol.* **4**: 1129–1137. <https://doi.org/10.1038/s41564-019-0404-y>
19. Buda, D.M., Bulzu, P.-A., Barbu-Tudoran, L., Porfire, A., Pătraş, L., Sesărman, A., Tripon, S., Şenilă, 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. <https://doi.org/10.1093/femsle/fnz231>
20. **Banciu, H.L.**, Enache, M., Montalvo-Rodriguez, R., Oren, A., Ventosa, A. (2019) Ecology and physiology of halophilic microorganisms - Thematic issue based on papers presented at Halophiles 2019 – 12th International Conference on Halophilic Microorganisms, Cluj-Napoca, Romania, 24-28 June, 2019. *FEMS Microbiol Lett.* **366**(23), fnz250. <https://doi.org/10.1093/femsle/fnz250>
21. Baricz, A., Chiriac, C.M., Andrei, A.-Ş., Bulzu, P.-A., Levei, E.A., Cadar, O., Bătes, K.P., Cîmpean, M., Şenilă, M., Cristea, A., Muntean, V., Alexe, M., Coman, C., Szekeres, E.K., Sicora, C.I., Ionescu, A., Blain, D., O'Neill, W.K., Edwards, J., Hallsworth, J.E., **Banciu, H.L.** (2020) Spatio-temporal insights into microbiology of the freshwater-to-hypersaline, oxic-hypoxic-euxinic waters of Ursu Lake. *Environ. Microbiol.* <https://doi.org/10.1111/1462-2920.14909>
22. Moldovan, O. T., Baricz, A., Szekeres, E., Kenes, M., Hoaghia, M. A., Levei, E.A., Mirea, I.C., Năstase-Bucur, R., Brad, T., Chiciudean, I., **Banciu, H.L.** (2020). Testing different membrane filters for 16S rRNA gene-based metabarcoding in karstic springs. *Water* **12**(12):3400. <https://doi.org/10.3390/w12123400>
23. Cristea, A., Pustan, M., Bîrleanu, C., Dudescu, C., Floare, C. G., Tripon, A. M., **Banciu, H. L.** (2021). Mechanical evaluation of solvent casted poly (3-hydroxybutyrate) films derived from the storage polyesters produced by *Halomonas elongata* DSM 2581^T. *J Polym Environ*, 1-7. <https://doi.org/10.1007/s10924-021-02204-4>

c-2) Articles published in journals with impact factor as coauthor

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Hereby I declare that the above information is correct.

Date: 06.07.2021

**Signature,
Banciu Horia Leonard**