

# LIST OF PUBLICATIONS

**Horia L. BANCIU**

## In international journal with impact factor

- Sorokin DY, **Banciu H**, van Loosdrecht MCM, Kuenen JG (2003). Growth physiology and competitive interaction of obligately chemolithoautotrophic, haloalkaliphilic, sulfur-oxidizing bacteria from soda lakes. *Extremophiles* **7** (3):195-203.
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- Takaichi S, Maoka T, Akimoto N, Sorokin DY, **Banciu H**, Kuenen JG. (2004). Two novel yellow pigments natronochrome and chloronatronochrome from the natrono(alkali)philic sulfur-oxidizing bacterium *Thioalkalivibrio versutus* ALJ 15. *Tetrahedron Lett* **45** (45):8303-8305.
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- Geelhoed JS, Sorokin DY, Epping E, Tourova TP, **Banciu HL**, Muyzer G, Stams AJ, Van Loosdrecht MCM (2009). Microbial sulfide oxidation in the oxic-anoxic transition zone of freshwater sediment: involvement of lithoautotrophic *Magnetospirillum* strain J10. *FEMS Microbiol Ecol* **70** (1):54-65.

- Moldovan OT, Levei E; Marin C, Banciu M, **Banciu HL**, Pavelescu C, Brad T, Cimpean M, Meleg I, Iepure S, Povara I (2011). Spatial distribution patterns of the hyporheic invertebrate communities in a polluted river in Romania. *Hydrobiologia* **669** (1):63-82.
- Andrei A-Ş, **Banciu HL**, Oren A (2012). Living with salt: metabolic and phylogenetic diversity of archaea inhabiting saline ecosystems. *FEMS Microbiol Lett* **330** (1):1-9.
- Ionescu MI, Costache AZ, Oniga O, **Banciu HL**, Lupan I (2013). Inhibition of *Streptococcus pneumoniae* adenylate kinase by some 5-arylidene-thiazolidin-4-on-2-thione derivatives. *Rev Romana Med Lab* **21** (1):93-99.
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- Baricz A, Cristea A, Muntean V, Teodosiu G, Andrei A-Ş, Molnár I, Alexe M, Rakosy-Tican E, **Banciu HL** (2015). Culturable diversity of aerobic halophilic archaea (Fam. *Halobacteriaceae*) from hypersaline, meromictic Transylvanian lakes. *Extremophiles* **19** (2):525-537.
- Coman C, Chiriac CM, Robeson MS, Ionescu C, Dragoş N, Barbu-Tudoran L, Andrei A-Ş, **Banciu HL**, Sicora C, Podar M (2015). Structure, mineralogy and microbial diversity of geothermal spring microbialites associated with a deep oil drilling in Romania. *Front. Microbiol.* **6**:253.
- Andrei A-Ş, Robeson MS, Baricz A, Coman C, Muntean V, Ionescu A, Etiope G, Alexe M, Sicora CI, Podar M, **Banciu HL** (2015). Contrasting taxonomic stratification of microbial communities in two hypersaline meromictic lakes. *ISME J.* DOI:10.1038/ismej.2015.60.

### In international volumes

- Banciu H**, Kleerebezem R, Muyzer G, Kuenen JG, Sorokin DY (2004). Application of haloalkaliphilic sulfur-oxidizing bacteria for the removal of H<sub>2</sub>S from gas streams. In: Verstraete W. (Ed) *Environmental Biotechnology ESEB 2004*, p. 345-348, A.A.Balkema publishers, Leiden.

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- Banciu H** (2006). Haloalkaliphilic sulfur-oxidizing bacteria: taxonomy, physiology and biotechnological potential. *Studii si cercetari, Seria Biologie – Muzeul Bistrita-Nasaud* **12**:4-15.
- Banciu H**, Olaru F, Hengst V, Banciu M, Petrescu I, Mocanu A, Tarba C, Yupsanis T, Tomoaia-Cotisel M (2007). Partial biochemical characterization of storage protein from aleurone cells of barley (*Hordeum vulgare* L.). *Studia UBB Biologia* **52** (1):37-45.
- Olaru F, Sesărman A, **Banciu H**, Banciu M, Petrescu I (2008). Spectrofluorometric analysis of chicken IgY stability after urea treatment. *Studia UBB Biologia* **53** (1):51-58.
- Miclea A, Van der Star WRL, Kleerebezem R, **Banciu H** (2009). Anammox process and its applications in wastewater treatment. *Studia UBB Biologia* **54** (2):97-110.
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- Banciu H L** (2013). Diversity of endolithic prokaryotes living in stone monuments, *Studia UBB Biologia* **58** (1):99-109.
- Cristea A, Andrei AȘ, Baricz A, Muntean V, **Banciu HL** (2014). Rapid assessment of carbon substrate utilization in the epilimnion of meromictic Ursu lake (Sovata, Romania) by the BIOLOG ECO PLATE™ approach. *Studia UBB Biologia* **59** (1):41-53.

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- Banciu HL.** *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 HL.** *Biofizică* (In Romanian), Risoprint, Cluj-Napoca, 2010, pp. 216. ISBN 978-973-53-0215-3.

## Book chapters at international publishers

- Sorokin DY, **Banciu H**, Robertson LA, Kuenen JG (2006). Haloalkaliphilic sulfur-oxidizing bacteria. In: *The Prokaryotes: A Handbook on the Biology of Bacteria – 3<sup>rd</sup> Edition* (Dworkin M, Falkow S, Rosenberg E, Schleifer K-H, Stackebrandt E, Eds.), pp. 969-984, Springer-Verlag, New York, ISBN 978-0387254999.

[http://link.springer.com/referenceworkentry/10.1007/0-387-30742-7\\_30](http://link.springer.com/referenceworkentry/10.1007/0-387-30742-7_30)

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[http://link.springer.com/referenceworkentry/10.1007%2F978-3-642-30141-4\\_77](http://link.springer.com/referenceworkentry/10.1007%2F978-3-642-30141-4_77)

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

[http://link.springer.com/chapter/10.1007%2F978-94-007-6488-0\\_5](http://link.springer.com/chapter/10.1007%2F978-94-007-6488-0_5)

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