



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

## Doctoral School of Integrative Biology

### 1. PhD Student:

**Name:** Cristea, **First name:** Adorján

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### 2. Doctorate

**2.1. PhD thesis title:** Molecular and physiological mechanisms involved in polyhydroxyalkanoates (PHAs) synthesis in halophilic microorganisms

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

### 3. Scientific articles published in:

#### 3.1. Impact factor journals (IF, AIS):

##### 3.1.1

Alexe, M., Șerban, G., Baricz, A., Andrei, A. Ș., **Cristea, A.**, Battes, K. P., 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. *Journal of Limnology*, **77**:17-34. <https://doi.org/10.4081/jlimnol.2017.1657> IF: 1,606; AIS: 0,517

##### 3.1.2.

**Cristea, A.**, Baricz, A., Leopold, N., Floare, C.G., Borodi, G., Kacso, I., Tripon, S., Bulzu, P.-A., Andrei, A. Ș., 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). *Journal of Applied Microbiology*, **125**:1343-1357. <https://doi.org/10.1111/jam.14029> IF: 2,683; AIS: 0,629



### 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](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

**Cristea, A.**, Floare, C., Borodi, G., Leopold, N., Kacso, I., Cadar, O., Banciu, H. L. (2017). Physical and chemical detection of polyhydroxybutyrate from *Halomonas elongata* 2FF. *New Frontier in Chemistry* ISSN 2393-2171, SP\_OP3. (link: [http://www.newfrontchem.iqstorm.ro/upload/XYZ-NFC-26-2\\_All-in-All.pdf](http://www.newfrontchem.iqstorm.ro/upload/XYZ-NFC-26-2_All-in-All.pdf))

The Annual International Conference of the Romanian Society for Biochemistry and Molecular Biology, 8-9 June 2017, Timișoara, Romania.



#### 4.1.2.

**Cristea, A.,** Tomescu, A., Banciu, H. L. (2017). Screening of halotolerant bacterial strains for polyhydroxyalkanoate synthesis. YRSC Abstract Book pp 11. (No link available)

4<sup>th</sup> International Symposium „Young Researchers in Sciences”, 14-19 August, 2017, Cluj-Napoca, Romania.

#### 4.1.3.

**Cristea, A.,** Levei, E., Tincu, S., Floare, C. G., Borodi, G., Kacso, I., Cadar, O., Banciu H. L. (2018). Batch growth kinetics of polyhydroxybutyrate production in halotolerant *Halomonas elongata* strain 2FF under different nutrient limitation and high salt concentration. Book of Abstract. pp 38. Agir Publishing House. ISBN: 978-973-720-746-3, București, Romania. (<https://banciuhoria.files.wordpress.com/2018/09/p-16-cristea-adorjan.pdf>)

The Annual International Conference of the Romanian Society for Biochemistry and Molecular Biology, 5-7 September 2018, Bucharest, Romania.

#### 4.1.4.

**Cristea, A.,** Leopold, N., Floare, C. G., Bulzu, P. A., Banciu, H. L. (2018). Sugarcane molasses as an alternative cheap carbon source for polyhydroxybutyrate production by *Halomonas elongata* 2FF under nonsterile conditions. FEBS Open Bio 8:(Supplement S1) pp.180. doi:10.1002/2211-5463.12453. (<https://febs.onlinelibrary.wiley.com/toc/22115463/2018/8/S1>)

The 43<sup>th</sup> Federation of European Biochemistry Societies (FEBS) Congress, 7-12 July 2018, Prague, Czech Republic.

#### 4.1.5.

**Cristea, A.,** Bratovianu, A. M., Tripon, A. M., Kristea, T., Banciu, H. L. (2019) Effects of nitrogen and phosphorus limitations on polyhydroxyalkanoate synthesis by *Halomonas elongata* strains grown under saline conditions. Studia UBB Biologia 64(1): 122. ([https://banciuhoria.files.wordpress.com/2019/07/biologia\\_1\\_2019-cristea.pdf](https://banciuhoria.files.wordpress.com/2019/07/biologia_1_2019-cristea.pdf))

12<sup>th</sup> International Conference on Halophilic Microorganisms – Halophiles 2019, June 24-28, 2019, Cluj-Napoca, Romania.



#### 4.1.6.

Pustan, M., Birleanu, C., **Cristea, A.**, Banciu, H. L. (2021). Nanotribological investigation of the poly(3-hydroxybutyrate) films manufactured from the storage polyesters produced by *Halomonas elongata* DSM 2581, (doi:10.3390/Micromachines2021-09564). (<https://sciforum.net/paper/view/conference/9564>)

Micromachines 2021 - 1<sup>st</sup> International Conference on Micromachines and Applications (ICMA2021), 15-30 April 2021, Online.

#### 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.

Food chains in the dark: diversity and evolution (DARKFOOD)" (Acronim: DARKFOOD), project code: PN-III-P4-ID-PCCF-2016-0016, contract nr. 15/2018. (2018-2022), Babeş-Bolyai University as Partner P1 in the project. Responsible P1 – Prof. Dr. Banciu Horia Leonard.

###### 5.1.3

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



**6. Visibility (links):**

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

**6.2. ResearchGate:** <https://www.researchgate.net/profile/Adorjan-Cristea>

**6.3. Twitter (#AcademicTwitter):** NA

**6.4. ORCID:** <https://orcid.org/0000-0002-1818-3285>

**6.5. Publons:** <https://publons.com/researcher/3712122/cristea-adorjan/>

Date: 16.04.2021

Signature