



János Barnabás Biró

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Google Scholar: <https://scholar.google.com/citations?hl=en&user=H5a-2GAAAAAJ>

- 2021 - **Research associate (Biological Research Centre (Szeged), Eötvös Loránd Research Network)**
- 2017 - **PhD study in Genetics program (Eötvös Loránd University, Budapest)**
Topic: Identification of genes responsible for the establishment of symbiotic nitrogen fixation in *Medicago truncatula*
Supervisor: Dr. Péter Kaló (Hungarian University of Agriculture and Life Sciences, MATE - former National Agricultural and Innovation Center, Gödöllő)
- 2015 - 2017 **Biology MSc. Molecular genetics, cell- and developmental biology specialization (Eötvös Loránd University, Budapest)**
Thesis: Investigating of the connections among cellular stress response pathways and heat shock transcription factor HSF-1 in *Caenorhabditis elegans*
Supervisor: Dr. János Barna (Eötvös Loránd University, Genetics Department)
- 2011 - 2014 **Biology BSc. (Eötvös Loránd University, Budapest)**
Thesis: Investigation of the structure- and photo activity of etioplast inner membranes *in vitro*.
Supervisor: Dr. Annamária Kósa (Eötvös Loránd University, Department of Plant Anatomy)

PUBLICATIONS

- 2023 Güngör, B.*, **Biró, J.B.***, Domonkos, Á., Horváth, B. and Kaló, P., 2023. Targeted mutagenesis of *Medicago truncatula* Nodule-specific Cysteine-rich (NCR) genes using the *Agrobacterium rhizogenes*-mediated CRISPR/Cas9 system. *bioRxiv*, pp.2023-08.
- 2023 Zhang, R., Shen, Y., He, J., Zhang, C., Ma, Y., Sun, C., Son, X., Li, L., Zhang, S., **Biró, J.B.** and Saifi, F. et al. 2023. Nodule-Specific Cysteine-Rich Peptide 343 is required for symbiotic nitrogen fixation in *Medicago truncatula*. *Plant Physiology*, 2023
- 2023 Horváth, B.*, Güngör, B.*, Tóth, M., Domonkos, A., Ayaydin, F., Saifi, F., Chen, Y., **Biró, J. B.**, Bourge, M., Szabó, Z., et al. 2023. The *Medicago truncatula* nodule-specific cysteine-rich peptides, NCR343 and NCR-new35 are required for the maintenance of rhizobia in nitrogen-fixing nodules *New Phytologist*, 2023

AWARDS

- 2017 **Internal scientific conference of Agricultural Biotechnology Institute**, (Gödöllő, Hungary)
Presentation - **Special Prize of Eppendorf Austria GmbH**
- 2017 **Conference of Students' Association of Science**, National round: Genetics section (Debrecen, Hungary)
Presentation - **II. Prize**

2016

Conference of Students' Association of Science, Local round: Genetics, Cell- and Developmental Biology section (Eötvös Loránd University, Budapest, Hungary)

Presentation - **II. Prize**

LANGUAGES

English,
Hungarian,
German (Basic level)