

## Eszter Széles

Current workplace: BRC Szeged, Institute of Plant Biology  
Molecular Photobioenergetics Group  
(Dr. Szilvia Zita Tóth)

Current position: Scientific associate

Contact: [eszter.szeles7@gmail.com](mailto:eszter.szeles7@gmail.com)  
+36/20/9433044

ORCID number: 0000-0003-0800-9571

MTMT number: 10082197



### Education

2023. PhD Degree [Doctoral School of Biology] (Biological Research Centre, University of Szeged, Hungary)

2022. Doctoral School of Biology; Absolutatory (University of Szeged, Hungary)

2018. Master's Degree in Biology, [Molecular, Immuno- and Microbiology] (University of Szeged, Hungary)

2015. Bachelor's Degree in Biology, [Cell- and Molecular Biologist] (University of Szeged, Hungary)

### Publications:

- 2023 Széles E., Kuntam S., Vidal-Meireles A., Nagy V., Nagy K., Ábrahám Á., Kovács L., Tóth S.Z., Single-cell microfluidics in combination with chlorophyll *a* fluorescence measurements to assess the lifetime of the *Chlamydomonas* PSBO protein. **Photosynthetica**, Accepted; Impact factor: 2.700; DOI: 10.32615/ps.2023.028
- 2022 Vidal-Meireles A., Kuntam S., Széles E., Tóth D., Neupert J., Bock R., Toth S.Z., The lifetime of the oxygen-evolving complex subunit PSBO depends on light intensity and carbon availability in *Chlamydomonas*; **Plant Cell Environ** 46(2):422-439. DOI: 10.1111/pce.14481; Impact factor: 7.947
- 2022 Széles E., Nagy K., Ábrahám Á., Kovács S., Podmaniczki A., Nagy V., Kovács L., Galajda P., Tóth S.Z., Microfluidic Platforms Designed for Morphological and Photosynthetic Investigations of *Chlamydomonas reinhardtii* on a Single-Cell Level. **Cells** 11(2):285; Impact factor: 6.600; DOI: 10.3390/cells11020285; Impact factor: 7.666

Total impact factor: 18.313

### Posters and oral presentations:

- 2023 Poster; Nordic Photosynthesis Congress (NPC) and Nordic Algae Symposium (NAS); Chl *a* fluorescence induction measurements in microfluidics chambers to determine the lifetime of the oxygen-evolving complex subunit PSBO; Umea, Sweden.
- 2022 Oral presentation; Straub Days, Microfluidic platforms designed for morphological and photosynthetic investigations of green algae on a single cell level; Szeged
- 2022 Oral presentation; Lecture Series of Young Plant Biologists of the Hungarian Plant Biological Society; Microfluidic platforms designed for morphological and photosynthetic investigations of *Chlamydomonas reinhardtii* on a single cell level. First place.
- 2022 Poster and flash talk; Microfluidic platforms designed for morphological and photosynthetic investigations of *Chlamydomonas reinhardtii* on a single-cell level; Elevating Nordic Algal Biotechnology Conference; Turku, Finland.

- 2021 Oral presentation; Hungarian Biophysical Society Photobiology Section, Mini-Symposium; Microfluidic platforms designed for morphological and photosynthetic investigations of *Chlamydomonas reinhardtii* on a single cell level
- 2021 Poster; Chlamy 2020+1 Conference; Development of microfluidic devices for single cell studies on *Chlamydomonas*; Iles des Embiez
- 2021 Oral presentation; Lecture Series of Young Plant Biologists of the Hungarian Plant Biological Society; Development of microfluidic chambers for single-cell analysis of green algae
- 2019 Poster; Photosynthesis and Hydrogen Energy Research for Sustainability Conference; Development of microfluidic chambers for investigation of green algae. St. Petersburg
- 2019 Poster; Straub Days, Development of microfluidic chambers for investigation of green algae. Szeged
- 2019 Poster; Oral presentation; 49th Membrane-Transport Conference, Development of microfluidic chambers for investigation of green algae. Sümeg, Poster award
- 2018 Oral presentation; iChamber Workshop; Microfluidic chambers for *Chlamydomonas reinhardtii*. Hajdúszoboszló
- 2018 Poster, Straub Days, The effect of alginate immobilization on the *Symbiodinium microadriaticum* microalgae. Szeged
- 2016 Certificate: qualified for OTDK; Investigation of receptor binding properties of opioid - cannabinoid bivalent ligands; TDK biochemistry section.

#### Awards and Scholarships:

- **Lecture Series of Young Plant Biologists of the Hungarian Plant Biological Society, First place**; Microfluidic platforms designed for morphological and photosynthetic investigations of *Chlamydomonas reinhardtii* on a single cell level; 2022.02.25.
- **Hotchkiss Award**; Microfluidic Platforms Designed for Morphological and Photosynthetic Investigations of *Chlamydomonas reinhardtii* on a Single-Cell Level.; 2022.01.
- **Poster award**, 49th Membrane-Transport Conference; Development of microfluidic chambers for investigation of green algae; Sümeg 2019
- Investigation of receptor binding properties of opioid - cannabinoid bivalent ligands; **TDK** biochemistry section; certificate; qualified for **OTDK**; 11.24.2016.
- **ERASMUS fellowship**, Tampere University of Technology, Finland, spring semester of 2012/2013

#### Language exams:

2020. Finnish, basic (C Complex language exam)
2008. English, intermediate (B Written language exam)
2006. English, intermediate (A Oral language exam)

#### Other activities:

painting, playing the violin, folk dance, programming in CSS and HTML, learning Spanish, reading, boxing