



Melinda Magyar

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WORK EXPERIENCE

Post-doctoral fellow / Research associate

HUN-REN Biological Research Centre, Szeged, Institute of Plant Biology, Laboratory of Photosynthetic Membranes

[2015 – Current]

City: Szeged

Country: Hungary

Investigation of the structure and conformational changes of photosynthetic reaction centres.

Laboratory experiences: CD (circular dichroism), fluorescence lifetime measurements, Chlorophyll-a fluorescence transients, thermoluminescence, crystallography, C550 and 515 absorption measurements, preparative laboratory work

Employers: Dr. Győző Garab, Dr. Petar H. Lambrev

Junior research associate

University of Szeged, Institute of Medical Physics and Informatics [2014 – 2015]

City: Szeged

Country: Hungary

Immobilization of redox active proteins (bacterial photosynthetic reaction centres and horseradish peroxidase) to carbon nanotubes, creating electrodes to harvest solar energy and to detect H₂O₂ in the environment as biosensor.

Laboratory experiences: TEM (transmission electron microscopy); SEM (scanning electron microscopy) AFM (atomic force microscopy); biochemical preparative methods for protein purification; steady state, time resolved (in ms and μ s time scale) and kinetic absorption measurements; spectroscopic characterization; fluorescence measurements; sterile laboratory work (in laminar airflow).

I also gained experience on being part of the organizing committee of an international conference as secretary and I became familiar with handling administration of office work.

Employers: Dr. László Nagy, Dr. Klára Hernádi

Short Term Scientific Mission

CEA Saclay, l'Institut de Biologie et de Technologies de Saclay [2017. 06. 26. – 2017. 08. 11.]

City: Saclay

Country: France

Laboratory experiences: time resolved infrared spectroscopy (FTIR) of photosystem II from plants

Short Term Scientific Mission

CEA Saclay, l'Institut de Biologie et de Technologies de Saclay [2018. 02. 18. – 2018. 03. 17.]

City: Saclay

Country: France

Laboratory experiences: time resolved infrared spectroscopy (FTIR) of photosystem II from plants

EDUCATION AND TRAINING

Post-doctoral fellow

HUN-REN Biological Research Centre, Szeged [2015 – Current]

Address: Temesvári krt. 62., 6726 Szeged (Hungary)

Pre-doctorate fellow

University of Szeged, Faculty of Science and Informatics [2013 – 2014]

Address: Szeged (Hungary)

PhD student, Environmentalist PhD program

University of Szeged, Faculty of Science and Informatics [2010 – 2013]

Address: Szeged (Hungary)

Degree: Environmentalist

University of Szeged, Faculty of Science and Informatics [2004 – 2010]

Address: Szeged (Hungary)

NETWORKS AND MEMBERSHIPS

Hungarian Biophysical Society

[2011 – Current]

Workshop: Ultrafast Processes in Photosynth. New Vistas at ELI ALPS, Organizing Committee

[Szeged, Hungary, 2014]

Advanced Laser Spectr. in Green Phototechnol. (COST Training School), Organizing Committee

[Szeged, Hungary, 2014]

SZAB - Regional Academic Committee of Szeged

[2017 – Current]

member of public body of Hungarian Academy of Sciences

[2023 – Current]

HONOURS AND AWARDS

Honours and awards

- "Ifjúsági Nemzetközi Konferencia Pályázat" bursary for attending at the „10th International Meeting «Photosynthesis and Hydrogen Energy Research for Sustainability – 2019»”, Saintpetersburg, Russia, 26/06/2019 – 28/06/2019
- COST-CM1306 - Bursary for Short Term Scientific Mission to Integrative Biology of the Cell (I2BC), CEA, CNRS, Univ. Paris-Sud, Université Paris-Saclay, Gif-sur-Yvette, France, 18/02/2018 – 17/03/2018
- OTKA PD 121225 – „Posztdoktori kiválósági program pályázat” scholarship, 2016
- EBSA (European Biophysical Societies' Association) bursary for attending at the Regional Biophysics Conference (RBC 2014), Smolenice, Slovakia, 15/05/2014 – 20/05/2014

ORGANISATIONAL SKILLS

Secretary of international conference

I gained experience on being part of the organizing committee of a joint international conference of Workshop on Ultrafast Processes in Photosynthesis. New Vistas at ELI-ALPS (October 18-21, 2014) and Advanced Laser Spectroscopy in Green Phototechnology, COST PHOTOTECH Training School (October 18-23, 2014), as secretary.

LANGUAGE SKILLS

Mother tongue(s):

Hungarian

English

LISTENING: C1 READING: C1 WRITING: C1
SPOKEN PRODUCTION: B2
SPOKEN INTERACTION: B2

French

LISTENING: A2 READING: A2 WRITING: A1
SPOKEN PRODUCTION: A1
SPOKEN INTERACTION: A1

DIGITAL SKILLS

Microsoft Office / Origin Pro / End note / Autodesk fusion 360

PUBLICATIONS

Scientometrics

MTMT data:

<https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10028740&view=pubTable>

- Publications: 47
- Citations: 270
- Hirsch index: 9

Google Scholar data:

<https://scholar.google.com/citations?user=plBhVbYAAAAJ&hl=hu>

- Citations: 339
- h-index: 11
- i10-index: 12

Selected publications

1. G. Sipka, L. Nagy, M. Magyar, P. Akhtar, J.-R. Shen, A. R. Holzwarth, P.H. Lambrev & G. Garab (2022) Light-induced reversible reorganizations in closed Type II reaction centre complexes: physiological roles and physical mechanisms. *Open Biology*, 12, 220297.
2. M. Magyar, P. Akhtar, G. Sipka, W. Han, X. Li, P.H. Lambrev & G. Garab (2022) Dependence of the rate-limiting steps in the dark-to-light transition of photosystem II on the lipidic environment of the reaction center, *Photosynthetica*, 60, 147-156.
3. G. Sipka, M. Magyar, A. Mezzetti, P. Akhtar, Q. Zhu, Y. Xiao, G. Han, S. Santabarbara, J.-R. Shen, P.H. Lambrev & G. Garab (2021) Light-Adapted Charge-Separated State of Photosystem II: Structural and Functional Dynamics of the Closed Reaction Center. *The Plant Cell*, 33(4), 1286-1302.
4. M. Magyar, G. Sipka, L. Kovács, B. Ughy, Q. Zhu, G. Han, V. Špunda, P.H. Lambrev, J.R. Shen, G. Garab (2018) Rate limiting steps in the dark to light transition of Photosystem II revealed by chlorophyll a fluorescence induction, *Scientific reports* 8 (1), 2755.
5. L. Nagy, M. Magyar, T. Szabó, K. Hajdu, M. Dorogi, L.Giotta, F. Milano (2014) Photosynthetic Machineries in Nano-Systems, Special Issue: "Sensors and transducers in the landscape of photosynthesis", *Current Protein & Peptide Science*, 15(4), 363-373.