




## Petar H. Lambrev

**Date of birth:** 29/10/1975

**Nationality:** Bulgarian


### CONTACT


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### ABOUT ME

Biophysicist. Head of the Photosynthetic Membranes Group, Biological Research Centre, Szeged. I am interested in the primary processes of photosynthesis and the mechanisms by which plants and algae control and optimise them.

### WORK EXPERIENCE

**2023 – CURRENT** Szeged, Hungary

**Scientific advisor** Biological Research Centre, Szeged  
head of Photosynthetic Membranes Group

**2013 – 2019** Singapore, Singapore

**Visiting scientist** Nanyang Technological University, School of Physical and Mathematical Sciences

**2009 – 2023** Szeged, Hungary

**Research associate** Hungarian Academy of Sciences, Biological Research Centre

**2007 – 2009** Mülheim a.d. Ruhr, Germany

**Postdoctoral research fellow** Max Planck Institute for Bio Inorganic Chemistry

**2006 – 2008** Frankfurt am Main, Germany

**Postdoctoral research fellow** Goethe University of Frankfurt, Institute of Molecular Bio Sciences

**2004 – 2007** Szeged, Hungary

**Postdoctoral research fellow (Marie Curie Actions)** Hungarian Academy of Sciences, Biological Research Centre

**2006 – 2008** Berlin, Germany

**Visiting scientist** Technical University of Berlin, Max-Volmer Laboratorium

### EDUCATION AND TRAINING

**1997 – 2004** Sofia, Bulgaria

**Ph.D. in Biophysics** "St. Kliment Ohridski" University of Sofia

**1992 – 1997** Sofia, Bulgaria

**M.Sc. in Biophysics** "St. Kliment Ohridski" University of Sofia

**2023**

**Doctor of Science** Hungarian Academy of Sciences

## ADDITIONAL INFORMATION

### Honours and awards

**2020** Ministry of Science and Education, Bulgaria

**"Pythagoras" prize** for significant contributions of a Bulgarian scientist working abroad

**2017** National Council of Student Research Societies, Hungary

**Pro Scientia Gold** PhD student supervisor award

### Memberships

**CURRENT**

**International Society of Photosynthesis Research**

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**CURRENT**

**Hungarian Biophysical Society**

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**CURRENT**

**Roland Eötvös Physical Society**

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**2019 – CURRENT**

**Research Data Alliance**

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### Journal editing

**CURRENT**

**Photosynthetica, Editor**

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**Frontiers in Plant Science, Associate Editor**

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**Photosynthesis Research, Guest editor**

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### Selected publications

**2021**

**Two-dimensional electronic spectroscopy of a minimal Photosystem I complex reveals the rate of primary charge separation**

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Akhtar, P., Caspy, I., Nowakowski, P. J., Malavath, T., Nelson, N., Tan, H.-S., Lambrev, P. H. *Journal of the American Chemical Society* 143:14601-14612

**2019**

**Temperature dependence of the energy transfer in LHCII revealed by two-dimensional electronic spectroscopy**

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Akhtar P., Do, T.N., Nowakowski P. J. Huerta Viga A., Khyasudeen, M. F., Lambrev, P.H., Tan, H. S., *The Journal of Physical Chemistry B* 123:6765–6775

Link <https://doi.org/10.1021/acs.jpccb.9b05421>

**2019**

**Anisotropic circular dichroism of light-harvesting complex II in oriented lipid bilayers: theory meets experiment**

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Akhtar P., Do, T.N., Nowakowski P. J. Huerta Viga A., Khyasudeen, M. F., Lambrev, P.H., Tan, H. S. *Journal of Physical Chemistry B* 123:6765–6775

Link <https://doi.org/10.1021/acs.jpccb.8b12474>

**2017**

**Two dimensional spectroscopy of chlorophyll a excited state equilibration in Light-harvesting complex II**

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Akhtar, P., Zhang, C., Do, T.N., Garab, G., Lambrev, P.H., Tan, H. S. *Journal of Physical Chemistry Letters* 8:257-263

Link <https://doi.org/10.1021/acs.jpcllett.6b02615>

2015

**Direct observation of multistep energy transfer in LHCI with fifth-order 3D electronic spectroscopy**

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Zhang, Z., Lambrev, P. H., Wells, K. L., Garab, G., Tan, H. S. *Nature Communications* 6:7914

Link <https://doi.org/10.1038/ncomms8914>