

CURRICULUM VITAE

(updated: 08/09/2023)

PERSONAL DATA

Name: **Péter Galajda**
Highest scientific degree: Ph.D. (Physics)
Current position: senior research fellow, head of research group

SCIENTIFIC PROGRESS

2003 Ph.D. (*summa cum laude*, physics, University of Szeged)
1997 M.Sc. (*diploma with honors*, physicist, University of Szeged)

SCIENTIFIC VISITS AND WORKPLACES

2010- senior research fellow, Institute of Biophysics, BRC, Szeged
2008-2010 postdoctoral fellow, Department of Bionanosciences, Delft University of Technology, Delft, The Netherlands
2007-2008 postdoctoral fellow, FAS Center for Systems Biology, Harvard University, Cambridge MA, USA
2004-2007 postdoctoral fellow, Department of Physics, Princeton University, Princeton NJ, USA
2003-2010 research fellow, Institute of Biophysics, BRC, Szeged
2000-2003 junior research fellow, Institute of Biophysics, BRC, Szeged

HONORS, AWARDS

2002 Széchenyi Prize (shared), President of Hungary
2002 Young Researcher Award, Hungarian Biophysical Society

SIGNIFICANT RESEARCH GRANTS

2017-2021 participant/ member of consortium in the following EU-funded Hungarian national grant: GINOP-2.3.2-15-2016-00026 (*“How do the genotype and the environment determine the observable characteristics of cells? System level microfluidic analysis using the iChamber platform”*)
2017-2021 participant/ member of consortium in the following EU-funded Hungarian national grants: GINOP-2.3.2-15-2016-00037 (*“Internet of Living Things”*)
2016-2020 participant/ member of consortium in the EU-funded Hungarian national grant GINOP-2.3.2-15-2016-0001 (*“A molecular biology research center serving the protection of health and environment: research activities based on needs of society to increase the international competitiveness of the center of excellence.”*)
2016-2021 OTKA K research grant, *“Studying ageing related phenomena in bacteria using holographic optical tweezers”*
2010-2015 “Momentum”, grant of the Hungarian Academy of Sciences, *“City of microbes”*: *studying bacterial communities using nanotechnology*

MEMBERSHIPS

2018- Eötvös Lorand Physical Society (currently board member of the Csongrád county branch)

2000- Hungarian Biophysical Society (currently board member)

2004-2008 American Physical Society

SCIENTOMETRIC PARAMETERS

Number of *in extenso* publication in periodicals: 32

Number of *in extenso* publication as book chapters: 3

Number of foreign/total citations: 1926/2125

Hirsch index: 20

SELECTED PUBLICATIONS

Nagy K, Dukic B, Hodula O, Ábrahám Á, Csákvári E, Dér L, Wetherington MT, Noorlag J, Keymer JE, Galajda P. (2022) Emergence of Resistant *Escherichia coli* Mutants in Microfluidic *On-Chip* Antibiotic Gradients. **Front Microbiol** 13:820738.

Wetherington MT, Nagy K, Dér L, Ábrahám Á, Noorlag J, Galajda P, Keymer JE. (2022) Ecological succession and the competition-colonization trade-off in microbial communities. **BMC Biol** 2022 Nov 30;20(1):262.

Nagy K, Ábrahám Á, Keymer JE, Galajda P. (2018) Application of Microfluidics in Experimental Ecology: The Importance of Being Spatial. **Front Microbiol** 9:496.

Sipos O, Nagy K, Di Leonardo R, Galajda P. (2015) Hydrodynamic Trapping of Swimming Bacteria by Convex Walls **Phys Rev Lett** 114:(25-26) Paper 258104. 5 p.

Galajda P, Keymer J, Chaikin P, Austin R. (2007) A wall of funnels concentrates swimming bacteria. **J Bacteriol** 2007 189(23):8704-7.

Keymer JE, Galajda P, Muldoon C, Park S, Austin RH. Bacterial metapopulations in nanofabricated landscapes. (2006) **Proc Natl Acad Sci USA** 103(46):17290-5.

Oroszi L, Galajda P, Kirei H, Bottka S, Ormos P. (2006) Direct measurement of torque in an optical trap and its application to double-strand DNA. **Phys Rev Lett** 97(5):058301.

Galajda P, Ormos P. (2001) Complex micromachines produced and driven by light. **Appl Phys Lett** 78 pp. 249-251.