

CV of Peter B. Kós

Personal data

Family name **Kós**
 Given name(s) **Péter Balázs**

Work address H-6726, Szeged, Temesvári krt 62

Phone 36-62-599711

E-mail kos.peter@brc.hu

Citizenship Magyar

Birth 1959. július 2.

Gender Male

Profession **Researcher**

Company, Institute 1984-1987 University of Szeged
 Profession/rank Scientific assistant
 Main tasks Research, tuition (chemical engineering, practicals)

Company, Institute 1988 – Biological Research Centre
 Profession/rank **Senior scientist**

20141 – University of Szeged, Dept. of Biotechnology
Senior scientist, honor. associate professor

Main tasks Academic research.

Undergraduate and postgraduate education (Bioinformatics, theoretical and practical courses, Photosynthesis, students' internships).

Main activities Research, undergraduate and postgraduate education

Studies

dates 1979-1984
 qualification Chemist, Biologist
 University University of Szeged

Other competencies

Mother tongue **Hungarian**

Other languages **English**
 German, Italian - passive

IT Competencies | Windows, MS Office, Bioinformatics suites, linux, PERL.

Study trips, Sabbatical

- 1997 IRBM Istituto di Ricerche di Biologia Molecolare (IRBM), Olaszország
[Prof. Anna Tramontano] (*in silico* protein structure prediction)
- 1998 Institute für Physikalische Biologie, Heinrich-Heine University, Düsseldorf, Németország
[Prof. Dr. Detlev Riesner] (dsRNS-specific antibodies)
- 1999–2002 Research Institute of Innovative Technology for the Earth (RITE), Kyoto, Japán
[Prof. Hideaki Yukawa] (bacterial genomics, and biotechnology genome sequencing)
- 2003 Department of Biochemistry and Food Chemistry, University of Turku, Finnország
[Prof. Eva-Mari Aro] (*in vitro* study of photosynthetic complexes)
- 2005 Faculty of Life Science and Biotechnology, Fukuyama University, Japán
[Prof. Kozi Asada] (investigation of reactive oxygen species in photosynthetic microbes)

Studies area:

- molecular biology of photosynthetic bacteria
- Cyanobacterial toxin production
- dsRNS-specific antibodies' production and investigation
- bacterial genomics, genome sequencing, metagenomics
- Genetic modification of cyanobacteria for biotechnological application

Current studies:

- Heavy metal induced genes in cyanobacteria
- Effects of UV-B on nucleic acids and photosynthetic complexes
- Effects of oxidative stress on photosynthetic complexes
- investigation of the regulation of cyanobacterial gene expression
- Investigation of microbial consortia of environmental ecosystems
- Utilization of microalgae as food additives for fisheries

Publication activity

peer reviewed publications: 55
Cumulative impact factor: 87,4 +
citations: 1098

Peer reviews

- Regular peer reviews for **OTKA** proposals
- Regular peer reviews for **PhD** theses
- Regular reviews for:
 - o Applied Microbiology and Biotechnology,
 - o Central European Journal of Biology,
 - o Diversity (Basel)
 - o Functional Plant Biology,
 - o Journal of Microbiology and Biotechnology,
 - o Photochemical and Photobiological Sciences,
 - o Physiologia Plantarum
 - o Plant Physiology
- Book: M. Agostino: Practical Bioinformatics (2012, Garland Science, USA)

Memberships in scientific societies

Magyar Mikrobiológiai Társaság (MMT)

American Society for Microbiology (ASM)

Magyar Növénybiológiai Társaság (MNBT)

Federation of Societies of Plant Physiology (FSPP)

Innovatív Mezőgazdasági Biotechnológiáért Egyesület

<i>Undergraduate Students:</i>	<i>PhD students:</i>
Hegedüs Imre, 2004 Asztalos Emese, 2007 Földesiné Füredi Petra Katalin 2008 Tóth Gertrúd Bettina, 2011 Büttel Zsófia, 2011 Zsibrita Nikolett 2012 Tóth Gertrúd Bettina, 2013 Paplógó Levente, 2015 Buzogány Örs, 2015 Schmidt Egon 2015 Horváth Anett 2016 Solymosi Dániel 2016 Kerekes Kriszta 2017 Dékány Lilla 2017 Széles Eszter, 2018 Bereczky Boglárka 2022 Hamvas Martin, 2022	Loredana Peca (2011) Kiss Éva (2013) Nagy Csaba István (2015) Vass István Zoltán (2014) Patyi Gábor (2023)