



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Balázs KOVÁCS**

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Nationality Hungarian

Date of birth 30-08-1973

Gender male

Work experience

Dates	2021-
Occupation or position held	Senior Research Fellow, Deputy Head of Department
Main activities and responsibilities	
Name and address of employer	Hungarian University of Agriculture and Life Sciences, Institute of Aquaculture and Environmental Safety, Department of Molecular Ecology
Type of business or sector	Molecular genetics, Biotechnology, R&D
Dates	2011-2021
Occupation or position held	Senior Research Fellow
Main activities and responsibilities	Participation of many activities of the Department (research, education, grant application)
Name and address of employer	Szent István University-Department of Aquaculture
Type of business or sector	Molecular genetics, Biotechnology, R&D
Dates	2007-2010
Occupation or position held	Research Fellow
Main activities and responsibilities	Participation of many activities of the Department (research, education, grant application)
Name and address of employer	Szent István University, Regional University Center of Excellence in Environmental Industry Based on Natural Resources
Type of business or sector	Molecular genetics, Biotechnology, R&D
Dates	2004-2010
Occupation or position held	research fellow
Main activities and responsibilities	Participation of the research and grant application activities of the Research group
Name and address of employer	Agricultural Biotechnology Center, Institute of Animal Biology
Type of business or sector	Molecular genetics, Biotechnology, R&D
Dates	1998-2004
Occupation or position held	research fellow

Main activities and responsibilities
 Name and address of employer
 Type of business or sector

Participation of the research and grant application activities of the Research group
 Agricultural Biotechnology Center, Laboratory of Aquatic Molecular Biology
 Molecular genetics, Biotechnology, R&D

Education and training

Dates
 Title of qualification awarded
 Principal subjects/occupational skills covered
 Name and type of organisation providing education and training

1998-2004
 Ph.D. Animal husbandry ,Szent István university, (2005)
 Thesis: Studies on african catfish sex by molecular genetic tools
 Szent István University, Faculty of Agricultural and Environmental Sciences, Gödöllő

Dates
 Title of qualification awarded
 Name and type of organisation providing education and training

1994-1998
 vocational teacher, level MSC, topic: Molecular Genetic and Biotechnology / Aquaculture (1998)
 Szent István University, Faculty of Economics and Social Sciences, Teacher's Training College

Dates
 Title of qualification awarded
 Principal subjects/occupational skills covered
 Name and type of organisation providing education and training

1993-1998
 Agricultural engineer, level MSC, topic: Molecular Genetic and Biotechnology / Aquaculture (1998)
 Thesis: Study on recombinant Antifreeze gene inheritance in African catfish (Clarias gariepinus) generations
 University of Agricultural Sciences in Gödöllő

Personal skills and competences

Mother tongue(s) **Hungarian**

Other language(s)

Self-assessment
 European level (*)

English

Spanish

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
B2	B2	B2	B2	B2	
A2	A2	A2	A2	A2	

(*) Common European Framework of Reference for Languages

Social skills and competences
 I have been working in groups since 1995. I have good adaptability and sensitivity. I leading a small team with 1 scientists, 4 PhD students and 4 undergraduate students.

Organisational skills and competences
 Till now I have leaded 5 research projects, and I have participated 17 more research projects. I have participated in the work like a reviewer in different scientific journals. I have supervised or co-supervised 7 PhD students. Every year I have supervised 2-3 gradual students, who are doing their thesis under my guidance. I have been teaching in Hungarian and English languages. Our courses cover the fields of fish genetics, genomics and molecular biology.

Technical skills and competences

- Member of the Hungarian Genetic Society
- Public Body Membership of the Hungarian Academy of Sciences
- Animal Husbandry PhD School, Szent István University, Gödöllő, Hungary
- Member of European Aquaculture Society.

Computer skills and competences Using Microsoft™ Office, Windows, Internet, Adobe Photoshop, CorelDraw, Gimp, Sequencing Analysis Softwares, MEGA7, REST, Sequencer, SnapGene, Structure, IVG, Genome Workbench, GeneMapper, stb.

Technical skills and competences Reviwer at:
Acta Biologica Hungarica (2012-)
African Journal of Aquatic Science (2013)
Állattenyésztés és Takarmányozás (2014-)
Animal Welfare (2018-)
Biologia (2016-)
Biology Letters (2016)
BioMed Research International (2015)
Comparative Biochemistry and Physiology (2011)
Journal of Applied Ichthyology (2019)
Journal of Experimental Biology (2016)
Journal of Fish Biology (2007)
Mitochondrial DNA (2015)
Molecular Biology Reports (2011-)
National Science Centre (Narodowe Centrum Nauki); Poland (2014-) bíráló
PLOS ONE (2013-)
Turkish Journal of Fisheries and Aquatic Sciences (2015)

Awards:

- Third prize of the Scientific Student Conference at Szent István University, Section: Fish Culture (1997)
- Second prize of the Scientific Student Conference at Hungary, Section: Animal Husbandry (1997)
- Third prize for publication on the Agricultural Biotechnology Center's days, Gödöllő (2003)
- Second prize for publication on the Agricultural Biotechnology Center's days, Gödöllő (2004)
- Bolyai János Research Scholarship of the Hungarian Academy of Sciences (2008)

Traineeships:

- Four month Visiting Scientist, Fish biotechnology Laboratory, Institute of Molecular Agrobiolgy (IMA), Singapore.

Other skills and competences Ball games, angling, photography

Driving licence Automobile (B).

Additional information If needs, the references are available

Annexes see below

Selected publications of the last 5 years:

- Kaszab, E; Szoboszlai, S; Dura, Gy; Radó, J; Kovács, B; Kriszt, B Pathogenic and phylogenetic features of 2 multiresistant *Pseudomonas aeruginosa* strains originated from remediated sites INTERNATIONAL JOURNAL OF OCCUPATIONAL MEDICINE AND ENVIRONMENTAL HEALTH 29: 3 pp. 503-516., 14 p. (2016) IF2016: 2.068
- Pelyhe, C; Kövesi, B; Zándoki, E; Kovács, B; Szabó-Fodor, J; Mézes, M; Balogh, K Effect of 4-week feeding of deoxynivalenol- or T-2-toxin-contaminated diet on lipid peroxidation and glutathione redox system in the hepatopancreas of common carp (*Cyprinus carpio* L.) MYCOTOXIN RESEARCH 32: 2 pp. 77-83., 7 p. (2016) IF2016: 2.706
- Béres, B; Kánainé, S; Sipos D; Müller, T; Staszny, Á; Farkas, M; Bakos, K; Orbán, L; Urbányi, B; Kovács, B Species-specific markers provide molecular genetic evidence for natural introgression of bullhead catfishes in Hungary PEERJ 5 Paper: e2804, 17 p. (2017) IF2016: 2.177
- Vitál, Z; Józsa, V; Specziár, A; Mozsár, A; Lehoczky, I; Kovács, B; Hliwa, P; Boros, G Source of Bigheaded Carps (*Hypophthalmichthys* spp.) in Lake Balaton, Hungary: Natural Recruitment or Continuous Escapement from Aquaculture? INLAND WATERS 7: 2 pp. 218-226., 9 p. (2017) IF2017: 1.663

- Ágnes, Ősz; Ákos, Horváth; György, Hoitsy; Dóra, Kánainé Sipos; Szilvia, Keszte; Anna, Júlia Sáfrány; Sasa, Maric; Csaba, Palkó; Balázs, Tóth; Béla, Urbányi et al. The genetic status of the Hungarian brown trout populations: exploration of a blind spot on the European map of *Salmo trutta* studies PEERJ 6 Paper: e5152, 26 p. (2018) IF2018: 2.35
- Cs, Pelyhe; B, Kövesi; J, Szabó-Fodor; E, Zándoki; M, Erdélyi; B, Kovács; M, Mézes; K, Balogh Age-dependent effects of short-term exposure of T-2 toxin or deoxynivalenol on lipid peroxidation and glutathione redox system in broiler chickens WORLD MYCOTOXIN JOURNAL 11: 4 pp. 611-624., 14 p. (2018) IF2018: 2.28
- Mangesh, Nakade; Csilla, Pelyhe; Benjámín, Kövesi; Krisztián, Balogh; Balázs, Kovács; Judit, Szabó-Fodor; Erika, Zándoki; Miklós, Mézes; Márta, Erdélyi: Short-term effects of T-2 toxin or deoxynivalenol on glutathione status and expression of its regulatory genes in chicken ACTA VETERINARIA HUNGARICA 66: 1 pp. 28-39., 12 p. (2018) IF2018: 1.059
- Marczell, I; Balogh, P; Nyiro, G; Kiss, AL; Kovacs, B; Bekesi, G; Racz, K; Patocs, A Membrane-bound estrogen receptor alpha initiated signaling is dynamin dependent in breast cancer cells EUROPEAN JOURNAL OF MEDICAL RESEARCH 23: 1 Paper: 31, 10 p. (2018) IF2018: 1.736
- M, Erdélyi; K, Balogh; C, Pelyhe; B, Kövesi; M, Nakade; E, Zándoki; M, Mézes; B, Kovács Changes in the regulation and activity of glutathione redox system, and lipid peroxidation processes in short-term aflatoxin B1 exposure in liver of laying hens JOURNAL OF ANIMAL PHYSIOLOGY AND ANIMAL NUTRITION 102: 4 pp. 947-952., 6 p. (2018) IF2018: 1.703
- Müller, Tamás; Matsubara, Hajime; Kubara, Yuki; Horváth, Ákos; Kolics, Balázs; Taller, János; Stéger, Viktor; Kovács, Balázs; Horváth, László; Asturiano, Juan F et al. Testing cryopreserved European eel sperm for hybridization (*A. japonica* × *A. anguilla*) THERIOGENOLOGY 113 pp. 153-158., 6 p. (2018) IF2018: 2.299
- Müller, Tamás; Kucska, Balázs; László, Horváth; Ittész, Áron; Urbányi, Béla; Blake, Chris; Gutí, Csaba; Csorbai, Balázs; Kovács, Balázs; Szabó, Tamás Successful, induced propagation of African catfish (*Clarias gariepinus*) by ovarian lavage with sperm and hormone mixture AQUACULTURE 485 pp. 197-200., 4 p. (2018) IF2018: 3.022
- Pelyhe, C; Kövesi, B; Zándoki, E; Kovács, B; Erdélyi, M; Kulcsár, S; Mézes, M; Balogh, K Multi-trichotheccene mycotoxin exposure activates glutathione-redox system in broiler chicken TOXICON 153 pp. 53-57., 5 p. (2018) IF2018: 2.276
- Bakos, Katalin; Kovacs, Robert; Balogh, Erna; Sipos, Dora Kanaine; Reining, Marta; Gyomrei-Neuberger, Orsolya; Balazs, Adrienn; Kriszt, Balazs; Bencsik, Dora; Csepeli, Andrea et al. Estrogen sensitive liver transgenic zebrafish (*Danio rerio*) line (Tg(vtg1:mCherry)) suitable for the direct detection of estrogenicity in environmental samples AQUATIC TOXICOLOGY 208 pp. 157-167., 11 p. (2019) IF2018*: 3.794
- Kánainé Sipos, Dóra; Kovács, Gyula; Buza, Eszter; Csenki-Bakos, Katalin; Ősz, Ágnes; Ljubobratović, Uroš; Cserveni-Szücs, Réka; Bercsényi, Miklós; Lehoczky, István; Urbányi, Béla et al. Comparative genetic analysis of natural and farmed populations of pike-perch (*Sander lucioperca*) AQUACULTURE INTERNATIONAL 27: 4 pp. 991-1007., 17 p. (2019) IF2018*: 3.794
- Kánainé Sipos, Dóra; Bakos, Katalin; Ősz, Ágnes; Hegyi, Árpád; Müller, Tamás; Urbányi, Béla; Kovács, Balázs Development and characterization of 49 novel microsatellite markers in the African catfish, *Clarias gariepinus* (Burchell, 1822) MOLECULAR BIOLOGY REPORTS 46: 6 pp. 6599-6608., 10 p. (2019) IF2018*: 2.107
- Szabó, Rubina Tünde*; Kovács-Weber, Mária*; Erdélyi, Márta; Balogh, Krisztián; Fazekas, Natasa; Horváth, Ákos; Mézes, Miklós; Kovács, Balázs Comet assay study of the genotoxic effect of T-2 and HT-2 toxins in chicken hepatocytes BIOLOGIA FUTURA (formerly Acta Biologica Hungarica). (2019-) 70 pp. 330-335., 6 p. (2019) IF2018*: 0.679
- Molnár, Tamás; Benedek, Ildikó; Kovács, Balázs; Zsolnai, Attila; Lehoczky, István Genetic consequences of pond production of a pikeperch (*Sander lucioperca* L.) stock with natural origin: the effects of changed selection pressure and reduced population size PEERJ 8 Paper: e8745, 23 p. (2020) IF2018*: 2,353
- Maasz, Gabor; Zrínyi, Zita; Fodor, Istvan; Boross, Nóra; Vitál, Zoltán; Kánainé Sipos, Dóra Ildikó; Kovács, Balázs; Melegh, Szilvia; Takács, Péter Testing the Applicability of MALDI-TOF MS as an Alternative Stock Identification Method in a Cryptic Species Complex MOLECULES 25 Paper: 3214, 15 p. (2020) IF2018*: 3,060
- Káldy, Jenő*; Mozsár, Attila*; Fazekas, Gyöngyvér; Farkas, Móni; Fazekas, Dorottya Lilla; Fazekas, Georgina Lea; Goda, Katalin; Gyöngy, Zsuzsanna; Kovács, Balázs; Semmens, Kenneth et al. Hybridization of Russian Sturgeon (*Acipenser gueldenstaedtii*, Brandt and Ratzeberg, 1833) and American Paddlefish (*Polyodon spathula*, Walbaum 1792) and Evaluation of Their Progeny GENES 11 : 7 Paper: 753 (2020) IF2018*: 3,331
- Csenki, Zsolt; Horváth, Ákos ; Bock, Illés ; Garai, Edina ; Kerekes, Flóra ; Vásárhelyi, Erna ; Kovács, Balázs ; Urbányi, Béla ; Mueller, Ferenc ; Bakos, Katalin Using Tg(Vtg1:mcherry) Zebrafish Embryos to Test the Estrogenic Effects of Endocrine Disrupting Compounds JOVE-JOURNAL OF VISUALIZED EXPERIMENTS : 162 (2020) IF2018*: 1,108

20 szeptember 2020, Gödöllő

