europass

Gergely Bernáth, PhD

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Home: Erzsébet Királyné körút 13. 2/9, 2100 Gödöllő (Hungary)

WORK EXPERIENCE

Senior research fellow

Hungarian University of Agriculture and Life Sciences, Department of Aquaculture [2022 – Current]

City: Gödöllő

Country: Hungary

-reproduction biology in different fish species
-sperm quality assessment in different fish species (CASA, morphology, membrane integrity etc.)
-sperm cryopreservation in different fish species
-molecular biology in different fish species

Research fellow

Hungarian University of Agriculture and Life Sciences, Department of Aquaculture [2021 – 2022]

City: Gödöllő

Country: Hungary

Research fellow

Szent István University, Department of Aquaculture [2017 – 2021]

City: Gödöllő

Country: Hungary

Research associate

Szent István University, Department of Aquaculture [2014 – 2018]

City: Gödöllő

Country: Hungary

EDUCATION AND TRAINING

PhD

Szent István University, Doctoral School of Animal Husbandry Sciences [2011 – 2016]

City: Gödöllő

Country: Hungary

MSc in Biology

Szent István University, Faculty of Veterinary Science [2009 – 2012]

City: Budapest

Country: Hungary

BSc in Biology
Szent István University, Faculty of Veterinary Science [2006 – 2010]

City: Budapest
Country: Hungary

PIT Tag Use Training
Biomark [2017]

City: Vodnany
Country: Czechia

Animal Research Leader
Szent István University, Faculty of Veterinary Science, Unit for Laboratory Animal Science [2014]

Address: 4/2015, Course level B, previously FELASA C- equivalent This course meets the requirements as indicated the 63/2010 EU Directive, Budapest (Hungary)

LANGUAGE SKILLS

Mother tongue(s): **Hungarian**

Other language(s):

German (Goethe Institut-intermediate level)

LISTENING A2 **READING** A2 **WRITING** A1

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

English (European Consortium for the Certificate Attainment in Modern Languages-intermediate level)

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Computer user skills
MS Office

Scientific tools and softwares
ImageJ / R for statistics / pH meter / IBM SPSS Statistics / GraphPad Prism / Computer-assisted Sperm Analysis system / Controlled-rate Freezer / Osmometer / Microscopy

PUBLICATIONS

Bernáth, G., Milla, S., Várkonyi, L., Ledoré, Y., Griffitts, J.D., Fontaine, P., Urbányi, B., and Bokor, Z. (2022). The effect of two different experimental rearing temperatures on the quality and the large-scale cryopreservation of Eurasian perch (Perca fluviatilis) sperm. Theriogenology 185, 127–133. https://doi.org/10.1016/j.theriogenology.2022.03.033.

Bokor, Z., Żarski, D., Palińska-Żarska, K., Krejszeff, S., Król, J., Radóczi, J.Ifj., Horváth, Á., Várkonyi, L., Urbányi, B., and Bernáth, G. (2021). Standardization of sperm management for laboratory assessment of sperm quality and in vitro fertilization in Eurasian perch (Perca fluviatilis). Aquacult Int 29, 2021–2033. https://doi.org/10.1007/s10499-021-00731-4. Żarski,

Żarski, D., Ben Ammar, I., Bernáth, G., Baekelandt, S., Bokor, Z., Palińska-Żarska, K., Fontaine, P., Horváth, Á., Kestemont, P., and Mandiki, S.N.M. (2020). Repeated hormonal induction of spermiation affects the stress but not the immune response in pikeperch (Sander lucioperca). Fish & Shellfish Immunology 101, 143–151. https://doi.org/10.1016/j.fsi.2020.03.057.

Molnár, J., Bokor, Z., Várkonyi, L., Izsák, T., Füzes-Solymosi, E., Láng, Z.L., Csorbai, B., Tarnai-Király, Zs., Urbányi, B., and Bernáth, G. (2020). The systematic development and optimization of large-scale sperm cryopreservation in northern pike (Esox lucius). Cryobiology 94, 26–31. https://doi.org/10.1016/j.cryobiol.2020.05.003.

Bokor, Z., Bernáth, G., Várkonyi, L., Molnár, J., Láng, Z.L., Tarnai-Király, Z., Solymosi, E., and Urbányi, B. (2019). The applicability of large-scale sperm cryopreservation in wels catfish (Silurus glanis) optimized for hatchery practice. Aquaculture 506, 337–340. https://doi.org/10.1016/j.aquaculture.2019.03.064.

NETWORKS AND MEMBERSHIPS

Public body member

[Hungarian Academy of Sciences, 2015 – Current]

DRIVING LICENCE

Driving Licence: B

PROJECTS

Hungarian-Slovenian joint project

[2010 – 2010]

Type: international. Role: scientific contribution.

KMOP-1.1.1-09/1-2009-0049

[2010 – 2011]

Type: Hungarian R&D. Role: scientific contribution.

GOP-1.1.1-09/1-2010-0141

[2010 – 2011]

Type: Hungarian R&D. Role: scientific contribution.

GOP-1.1.1-11-2012-0306

[2012 – 2013]

Type: Hungarian R&D. Role: scientific contribution.

KMR_12-2012-1-2012-0222

[2012 – 2013]

Type: Hungarian R&D. Role: scientific contribution.

EUREKA_HU_12-1-2013- 0111850
[2013 – 2015]

Type: International R&D. Role: scientific contribution.

COST Action no. FA 1205
[2012 – 2016]

Type: International R&D and networking. Role: scientific contribution.

GINOP-2.1.1-15-Vállalatok K+F+I tevékenységének támogatása
[2016 – 2018]

Type: Hungarian R&D. Role: scientific contribution.

GINOP-2.3.2-15-2016-00004
[2016 – 2021]

Type: Hungarian R&D. Role: scientific contribution.

Hungarian-Belgian joint project
[2017 – 2019]

Type: international. Role: scientific contribution.

Versenyképességi és Kiválósági Program, NVKP16
[2017 – 2019]

Type: Hungarian R&D. Role: scientific contribution.

VEKOP-2.3.2-16-2016-00012
[2017 – 2021]

Type: Hungarian R&D. Role: scientific contribution.

AquaExcel2020 TNA-AE090022
[2019 – 2020]

Type: International joint project and R&D. Role: project leader, scientific contribution.

GINOP-2.2.1-18-2020-00026
[2020 – Current]

Type: Hungarian R&D. Role: scientific contribution.

HONOURS AND AWARDS

New National Excellence Program, Young researcher fellowship (ÚNKP-19-4)
The Ministry for Innovation and Technology [2019]

New National Excellence Program, Young researcher fellowship (ÚNKP-18-4)
The Ministry of Human Capacities [2018]

Bolyai János Postdoctoral fellowship (BO/00508/18/4)
Hungarian Academy of Sciences [2018]

Harsányi István Ph.D. Award
Manager Training Foundation , Hungarian Innovation Association [2016]

COMMUNICATION AND INTERPERSONAL SKILLS

Good organizational, design and collaboration skills. Independent creative mind and team spirit.

SHORT-TERM SCIENTIFIC MISSIONS

Germ cells isolation in sturgeon
[31/01/2015 – 27/02/2015]

Vodnany, Czech Republic

Optimization of conditions for the cryopreservation of Eurasian perch sperm
[28/02/2013 – 30/05/2013]

Olsztyn, Poland

INTERNATIONAL EDUCATION

Diverse Society–Diverse Classroom (training)
[2015]

Borgarnes, Iceland

Fish Proteomics (training)
[2015]

Olsztyn, Poland

Optical Microscopy and Image Analysis (training)
[2014]

Vodnany, Czech Republic

The Application of Chromosome Set Manipulations and the Importance of Gamete Collection and Management in Aquaculture (training)
[2013]

Stirling, Scotland

Techniques for fish germline cryobanking (training)
[2012]

Cádiz, Spain

WORK IN EDUCATION

Experience as supervisor of Bachelor (finished: 9), Master (finished: 2) and PhD students (finished: 1)

[2013 – Current]

SCIENTIFIC ACHIEVEMENTS

Science metrics

[2011 – Current]

Total publications: 165

Scientific articles: 34

Scientific book (co-editor): 5

Know how: 2

Citations: 315

Hirsch index: 13

Impact factor: 52.891

SCIENTIFIC ACTIVITY

Experience as reviewer of articles in scientific journals

[2014 – Current]

Animal Walfare

Animal Reproduction Science

Aquaculture

Aquaculture Research

Cryobiology

Fish Physiology and Biochemistry

Journal of Applied Ichthyology

North American Journal of Aquaculture

Polish Journal of Natural Sciences

Reproduction in Domestic Animals

Turkish Journal of Fisheries and Aquatic Sciences

Veterinary Research Communications