



Illés Bock

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Hártya utca 28/A, 1172, Budapest, Hungary

● WORK EXPERIENCE

15/06/2017 – CURRENT – Gödöllő, Hungary

UNIVERSITY RESEARCH ASSISTANT – HUNGARIAN UNIVERSITY OF AGRICULTURE AND LIFE SCIENCES, INSTITUTE OF AQUACULTURE

Designing and conducting ecotoxicological studies

- Toxicological studies of environmental samples (water and sediment) on zebrafish embryos.
- Toxicological studies of products / active substances on zebrafish embryos and adult fish.
- Investigation of mycotoxins and bacterial degradation products on zebrafish embryos.
- Investigation of estrogenic effect of environmental samples on transgenic zebrafish embryos, supplemented by gene expression assay using real-time RT-PCR (qPCR)
- Phenotyping zebrafish embryos/larvae during the aforementioned assays using (fluorescent) stereomicroscopy.
- Evaluation of toxicity tests by statistical methods.

Designing and conducting food safety studies

- Toxicological study of common carp, with a particular interest in pesticide agents
- Field sampling and sample processing
- Acute toxicity tests with juvenile fish

Designing and conducting molecular biology studies

- Conduct gene expression assays to supplement toxicity tests using qPCR

Conducting daily routine work in our fish-rearing laboratory according to GLP regulations

- Supervising our GLP assets as Asset Manager

Research projects in which I have participated in:

- NVKP_16-1-2016-0003 A budapesti várostérség tisztított és nem tisztított kommunális szennyvízeiben található egyes EDC szermaradványok vízminőségi, ökológiai és élelmiszer-biztonsági kockázatai és kockázatcsökkentő fejlesztések (*Water quality, ecological and food safety risks and risk mitigation developments of certain EDC residues in treated and untreated municipal wastewater in the Budapest metropolitan area*), National Research, Development and Innovation Office, Government of Hungary, 2016, Hungary.
- NVKP_16-1-2016-0009 A takarmány és élelmiszerbiztonság erősítése a takarmányok mikotoxin-mentesítésére alkalmas innovatív technológiák kifejlesztésével (*Strengthening feed and food safety through the development of innovative technologies for the removal of mycotoxins from feed*), National Research, Development and Innovation Office, Government of Hungary, 2016, Hungary.
- NVKP_16-1-2016-0023 Új kockázatkezelési modellrendszer fejlesztése a víz- és élelmiszerbiztonság növelése érdekében a haltermékvonalon (*Development of a new risk management model system to increase water and food safety on the fish product line*), National Research, Development and Innovation Office, Government of Hungary, 2016, Hungary.

Gödöllő, Hungary

● EDUCATION AND TRAINING

01/09/2000 – 31/07/2006 – Budapest, Hungary

GRADUATE – Szent István High School

EQF level 4

Basic agricultural, animal science, molecular biology and genetics studies.

Good (4,37) | Development opportunities of a National Park visiting site | EQF level 6

Advanced animal science, molecular biology, biochemistry, biotechnology and ecotoxicology studies.

Field(s) of study

- Animal Biotechnology specialization

Very good (4,69) | Comparison of the sensitivity of different zebrafish lines used in toxicology assays | EQF level 7

Determining the role of toxicokinetics in the diagnostic assessment of chemicals by automated zebrafish embryo phenotyping:

- Study and description of phenotype patterns caused by short term exposure to certain chemicals
- Statistical analysis of the phenotype pattern database
- Examination of internal concentration time courses using analytical methods

Field(s) of study

- Aquatic toxicology

Role of toxicokinetics in the diagnostic assessment of chemicals by zebrafish embryo phenotyping | EQF level 8

● LANGUAGE SKILLS

Mother tongue(s): HUNGARIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	C1
GERMAN	B2	B2	B1	B1	B2

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

● DIGITAL SKILLS

Microsoft Office | Social Media | Google Docs | LinkedIn | Zoom, Microsoft Teams, Google Meets, Skype, etc... | Advanced scientific databases search - PubMed, Scopus, PsycINFO, Google Scholar, Web of Science | miRBase | GraphPad Prism | ORCID | ResearchGate | KNIME

● PUBLICATIONS

Bock, I., Csorbai, B., Bokor, Z., Garai, E., Vásárhelyi, E., Kerekes, F., Urbányi, B., Bakos, K., Csenki, Zs. A Zagyva folyó kerekudvari kíméleti szakaszáról származó üledékminták toxikológiai vizsgálata klasszikus és alternatív halmodellekkel.

ANIMAL WELFARE ETHOLOGY AND HOUSING SYSTEMS, 16(2): 110-117. (2020)

Urbányi, B., Kriszt, B., Szoboszlai, S., Kaszab, E., Háhn, J., Bernáth, G., Csenki, Zs., Czimmerer, Zs., Bock, I., Jónás, G. et al. Boldog Halak és Boldog Fogyasztók? - Avagy a Happyfish Projekt Összefoglaló Eredményei.

ÁLLATTENYÉSZTÉS ÉS TAKARMÁNYOZÁS 69 : 3 pp. 345-363. , 19 p. (2020)

Csenki, Zs., Horváth, Á., Bock, I., Garai, E., Kerekes, F., Vászárhelyi, E., Kovács, B., Urbányi, B., Mueller, F., Bakos, K. Using Tg(Vtg1:mcherry) Zebrafish Embryos to Test the Estrogenic Effects of Endocrine Disrupting Compounds.

JOVE-JOURNAL OF VISUALIZED EXPERIMENTS, 2020:162 Paper: e60462. (2020)

● CONFERENCES AND SEMINARS

Balogh, E., Bock, I., Bakos, K., Urbányi, B., Csenki, Zs. A zebradánió egyes szerveire gyakorolt toxikus hatás felderítése génexpressziós vizsgálattal.

In: [Magyar, Toxikológusok Társasága] (eds.). TOX'2018 Tudományos Konferencia Program, kivonatok. (2018) p. 50 , 1 p. Conference paper (Abstract).

Bock, I., Csorbai, B., Bokor, Z., Garai, E., Vászárhelyi, E., Kerekes, F., Urbányi, B., Bakos, K., Csenki, Zs. A Zagyva folyó kerekudvari kíméleti szakaszáról származó üledékminták toxikológiai vizsgálata klasszikus és alternatív halmodellekkel.

Poster, Tox'2019 2019-10-09 [Szeged, Hungary].

Bock, I., Csorbai, B., Bokor, Z., Garai, E., Vászárhelyi, E., Kerekes, F., Urbányi, B., Bakos, K., Csenki, Zs. A Zagyva folyó Kerekudvari kíméleti szakaszáról származó üledékminták toxikológiai vizsgálata klasszikus és alternatív halmodellekkel.

In: Póti, P., Bényi, E., Kovács-Weber, M., Bodnár, Á., Pajor, F. VII. Gödöllői Állattenyésztési Tudományos Nap : Előadások és poszterek összefoglaló kötete. Gödöllő, Hungary : Szent István Egyetem Egyetemi Kiadó, (2019) p. 50 , 1 p. Chapter in Book (Abstract).

Garai, E., Kerekes, F., Kozar-Risa, A., Cserháti, M., Varga, E., Vászárhelyi, E., Kánainé S. D., Bock, I., Kriszt, B. et al. Investigation of the biodegradation efficiency of T-2 mycotoxin-degrading bacteria by microinjection on zebrafish embryos.

11th EUROPEAN ZEBRAFISH MEETING. Program and abstract book (2020) pp. 190-190., 1 p.

Garai, E., Kozár-Risa, A., Cserháti, M., Bakos, K., Vászárhelyi, E., Kánainé S., D., Bokor, Z., Kerekes, F., Bock, I., Kriszt, B. et al. Biological evaluation of microbial toxin degradation by microinjected zebrafish (Danio rerio) embryos.

11th EUROPEAN ZEBRAFISH MEETING. Program and abstract book (2020) pp. 192-192., 1 p.

● HONOURS AND AWARDS

01/09/2018

ÚNKP-18-2-II New National Excellence Program, Higher Education Student Scholarship (5 months) – Ministry of Human Resources, Government of Hungary

Project title: Comparison of the sensitivity of different zebrafish lines used in toxicological studies using acute toxicity test and molecular genetic method

01/09/2020

ÚNKP-20-3-I New National Excellence Program, Doctoral Student Scholarship (12 months) – Ministry of Innovation and Technology, Government of Hungary

Project title: Toxicological study of sediment samples from the protected Kerekudvar section of the Zagyva River with classical and alternative fish models

21/11/2018

Szent István University Scientific Students' Association Conference, 2nd place – Szent István University Scientific Students' Association

● **NETWORKS AND MEMBERSHIPS**

Memberships

Hungarian Society of Toxicologists membership