





The use of alternative components and innovative techniques in fish nutrition

Project name	The use of alternative components and innovative techniques in fish nutrition
Registration number	QK1810296
Realization date	01/2018 - 12/2022
Recipient	University of South Bohemia in České Budějovice – FFPW USB
Other recipients	AGRICO s.r.o., Mendel University Brno, Mráz Agro CZ, s.r.o., ReConsulting ČR, a.s., Charles University
Grant program	Applied "ZEMĚ" research programme of the Ministry of Agriculture for the period of 2017–2025
Responsible solver	DiplIng. Vlastimil Stejskal, Ph.D.

PROJECT ANNOTATION

The aim of this project is to test and apply different types of feeds containing an optimal level of biologically active compounds, plant products, phytogenic extracts, algal biomass, microbial protein, and insect meal to achieve better growth, survival, physiological and immunological status of cultured fish. Next goal is to test possibilities and utilization of novel live organisms to provide protocols for larvae weaning (shift from live to formulated food) to achieve better survival and to



reduce the feed costs. Then the project will test and apply the feeding technologies and techniques which will reduce the feed consumption, optimize the conversion rates, and positively affect fish ethology. The final effect will be elimination of loss of fish and reduction of nutrient emissions.

Results of the supported project:

Article: Khalilithilami, S., Sampels, S., Zajíc, T., Krejsa, J., Másílko, J., Mráz, J. Nutritional value of several commercially important river fish species from the Czech Republic. PeerJ, 2018, roč. 6, č. 10/2018, s. nestránkováno. ISSN 2167-8359

Article: Shah, B.R., Xu, W., Mráz, J., 2019. Cytochrome P450 1B1: role in health and disease and effect of nutrition on its expression. RSC Advances 9: 21050–21062. (IF 2018 = 3,049; AIS 2018 = 0,546)

Article: Imentai, A., Yanes-Roca, C., Steinbach, Ch., Policar, T., 2019. Optimized application of rotifers Brachionus plicatilis for rearing pikeperch Sander lucioperca L. larvae. Aquaculture International 27: 1137–1149. (IF 2018 = 1,455; AIS 2018 = 0,339)

Article: Stejskal, V., Matoušek, J., Podhorec, P., Prokešová, M., Zajíc, T., Mráz, J., 2019. The Effect of Culture System on Proximate Composition and Amino and Fatty Acid Profiles of Peled Coregonus peled Fillets. Journal of Aquatic Food Product Technology 28: 933–943. (IF 2018 = 0,707; AIS 2018 = 0,131)

Certified methodology: Manko, P., Adámek, Z., 2019. Metodické postupy při studiu potravy sladkovodních ryb. Certifikovaná metodika. Ministerstvo zemědělství ČR, 14.8.2019.







PROJECT BUDGET

	Amount CZK
Total approved costs	18,047 thou.
Public financial support	18,047 thou.
Other public sources	0 thou. CZK
Non public and foreign sources	0 thou. CZK

CONTACT



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