

AQUACULTURE LABORATORY

Laboratory of Aquaculture, Institute of Animal Husbandry Technology (Lithuanian University of Health Sciences) was established in 2014. The laboratory was established in order to improve the quality of scientific - research work and to provide more information for students' education. The laboratory works in close co-operation with Šilavotas subdivision of inland waters and aquaculture department of the Fisheries Service under Agricultural Ministry of Lithuanian Republic, UAB „Vasaknos“ AB „Išlaužo žuvis“. In the areas of research and manufacturing the laboratory also cooperates with the producers of fish feed - AB „Kauno grūdai“, „Naujasis Nevėžis“ as well as with individual fish raisers in the districts of Panevėžys and Utena. In the area of meat quality research the laboratory works in close cooperation with Animal Productivity Laboratory of LUHS and Food Institute of Kaunas University of Technology.

Scientific research interests – the influence of mannan-oligosaccharides and organic acid mixture on growth intensity, health and survival of carps. Investigations are being conducted both under industrial conditions – in the ponds of Šilavotas fish farm and under laboratory conditions – in GATI closed recirculating system of LUHS. Also, investigations of water parameters in the ponds and pools of closed recirculating system, comparison of carp anatomical parts, meat color, organoleptic characteristics and chemical composition of meat are being conducted. The influence of probiotics on carp growth rate and morphological composition of the blood is also being investigated in closed recirculating system.

In 2016, aquarium class of freshwater fish dedicated to research and education was established in the Aquaculture Laboratory.

In 2017, investigation of new, promising species - African catfish was launched. The technology of breeding African catfish in closed recirculating system is being mastered, investigations on the efficiency of different manufacturers' feed, meat quality of African catfish farmed in industrial closed recirculating systems are being conducted. The meat quality of two - and three-summer carp is also under investigation.

In the period between 2014 and 2016 years, 9 publications, 3 bachelor's and 1 master's theses were prepared on the topic of aquaculture. In 2017, 4 master's theses will be presented.

Staff of Aquaculture Laboratory takes participation in expert activities together with international organizations as well.

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