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Effects of bactocell probiotic (*Pediococcus acidilactici*) and folic acid on immune system on ship sturgeon fingerling

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This feeding trial was carried out to evaluate the effects of different dietary commercial probiotic (*pediococcus accidilactici*) and folic acid on the immune system in Ship sturgeon (*Acipenser nudiventiris*). 210 fish averaging 12.84±1.53 (mean SD) were randomly distributed into each of twenty one rectangular plastic tanks of 50 L capacity. Each tank was then randomly assigned to one of three replicates of seven diets containing control diet, 1(4 mg folic acid kg-1 diet), 2(300 g probiotics Tone-1 diet), 3(4 mg folic acid kg-1 diet+200 g Tone-1 diet), 4 (2 mg folic acid kg-1 diet+300 g Tone-1 diet), 5(2 mg folic acid kg-1 diet+200 g Tone-1 diet), 6 (4 mg folic acid kg-1 diet+300 g Tone-1 diet). At the end of eighteen weeks of feeding trial, both haematological indices and leucocyte counts were significantly (P < 0.05) affected by dietary pediococcus accidilactici and Folic acid and their combinations on diet. In the group with 4 mg FA+3 g *pediococcus accidilactici*, lysozyme activity and total immunoglobulin (Ig) level significantly increased compared to the those groups fed other diets (P < 0.05). Moreover, the fish fed with diets supplemented with 2 mg FA+ 3 g *pediococcus accidilactici* per kg-1 diet had considerably higher immunoglobulin (IgM) level (P < 0.05). Under the experimental conditions, dietary *pediococcus accidilactici* and FA had a synergistic effect on enhancing growth performance and immunity of *Acipenser nudiventris*.

Biography

She complecated my master of scinece period of natural resources engnierring, aquatics repruduction & breeding at university of lahijan in iran, now she is a phD student of Evolutionary Ecology and Biology at Department Bioscience at University of Parma in Italy.

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