

Study of some caretonid astaxanthin effects on artificial reproductive efficacy, growth, survival and immune system in larvae of farmed *Acipenser ruthenus*

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The project was carried out in International Sturgeon Research Institute (Rasht) in May 2013 and March 2014. This study was designed and done with the aim of detecting the effects of carotenoid astaxanthin on artificial reproductive efficiency, growth, and survivity and immunonological system of Sterlet, *Acipenser ruthenus* in a compeletely randomal design including: diet without additive carotenoid (control), treatment 1 (diet having 15 mg/kg astaxanthin), treatment 2 (diet having 45 mg/kg astaxanthin) and treatment 3 (diet having 75 mg/kg astaxanthin) with 3 replicates. A total of 48 pre broodstock of *Acipenser ruthenus* (with mean weigth 600 ± 14.5 g) were ed and transferred to fiberglass 500 lit tanks. Comparative results of weight during rearing course showed significant increase in fish (P

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