

Evaluation of Respiratory burst in Blood of culturing beluga juvenile (*Huso huso*) during two warm and cool seasons

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Abstract

This experiment was conducted to examine the effect of water temperature on respiratory burst activity on 2-3 year's old great sturgeon cultured in freshwater ponds during the yearlong period in cold and warm seasons. *H. huso* individuals were anesthetized with Clove extract and 2-3 ml of blood was sampled from the caudal venous from 120 fish specimens were apparently healthy. Respiratory burst activity was measured by using the reduction nitroblue tetrazolium. Our results showed that water temperature variations in different seasons had no significant effects on respiratory burst activity in blood leucocyte of *H. huso* juvenile ($p>0.05$).

Keywords: Respiratory burst, Beluga, Seasonal variations