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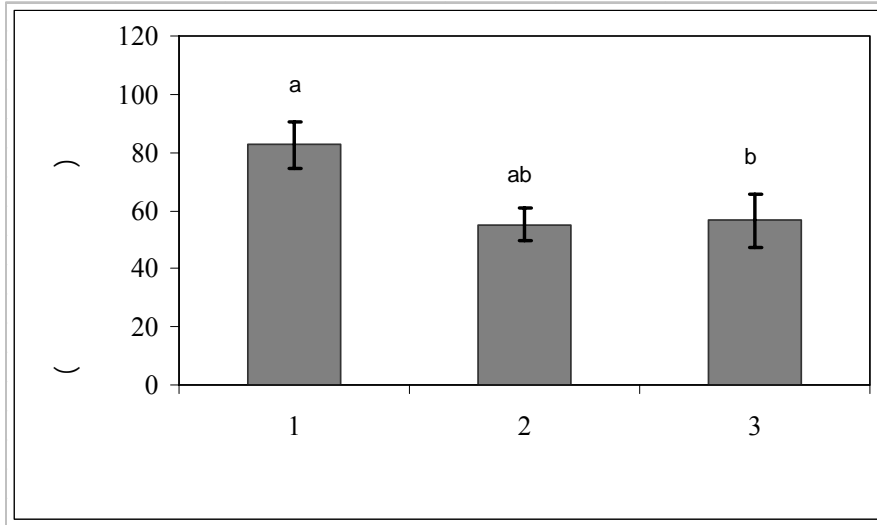
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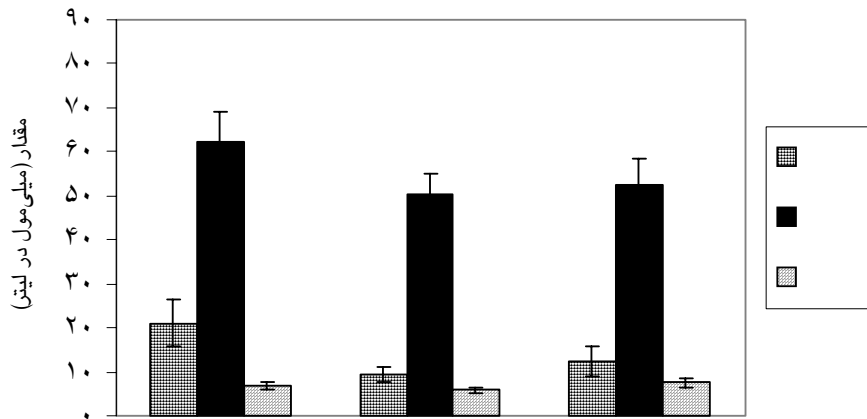
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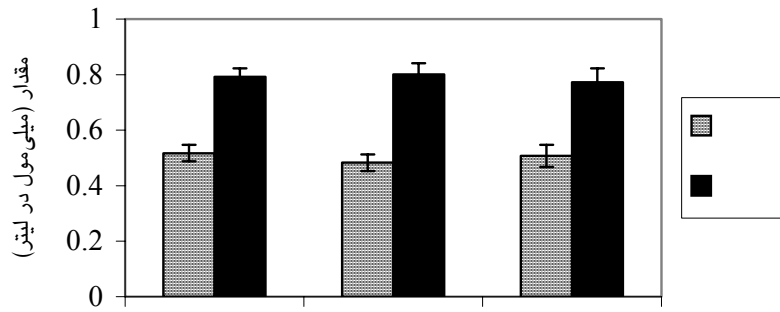
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Seminal Plasma Composition in *Acipenser persicus*: Effect of Stripping Frequency on Ionic Content and Osmolality¹

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Abstract

The seminal plasma composition including ionic content (mM L⁻¹) and osmolality (mOsmol Kg⁻¹), as well as their physiological correlations were studied in *Acipenser persicus* subjected to different stripping frequencies (three times at intervals of 12h after spermiation). The semen of 9 broodstocks was collected by hand stripping 24 hours after induction of spermiation through intramuscular injection of sturgeon pituitary extract. Average values of osmolality, Na⁺, K⁺, Cl⁻, Ca²⁺ and Mg²⁺ were 82.56 ± 8.1, 62.44 ± 6.82, 6.92 ± 0.88, 21.11 ± 5.41, 0.79 ± 0.03 and 0.51 ± 0.03 respectively. The osmolality of seminal plasma at the first stripping was higher than those at the second and third stripping (T-test, P<0.05). The concentrations of monovalent ions were higher than those of divalent ones. (T-test, P<0.001). Changes of Mg²⁺, Cl⁻, and Na⁺ were not the same as changes of other ions and osmolality, *i.e.*, the concentrations decreased at second but increased at the third stripping. However, there were no significant differences observed between ion concentrations at different strippings (T-test, P>0.05).

Key words: *Acipenser persicus*, Stripping, Ionic content, Osmolality, Seminal plasma