

Effects of the androgen preparation "Testoenatum" on reproductive function in males of Atlantic salmon and several species of whitefish



Atlantic salmon, *Salmo salar*, and several species of whitefish, *Coregonus nasus*, *C. peled*, *C. Lavaretus baeri*, males were treated with a long-acting medical androgen preparation - "Testoenatum". This preparation contains 24 mg of testosterone enanthate and 111 mg of testosterone propionate in 1 ml peach oil solution. Multiple (2–5) or single intraperitoneal injections of a standard dose (0.1 ml/kg fish body weight) were used. Treatment performed shortly before the beginning or within the breeding season resulted in a significant stimulation of spermiation, improvement of sperm parameters and extension of the gonad functional maturity period for 1–4 months. Low water temperatures (0.5–1.0 °C) seem to be essential to obtain a long-lasting effect after one injection. The histology of the pituitary gland suggests that the gonadotropic cells were activated through a positive feedback mechanism. Testoenatum suppressed Sertoli cells' phagocytary activity.

Auteurs du document : Oleg L. Christoforov, Irene G. Murza

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