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TECHNOLOGY OF STERLET REPRODUCTION BY MEANS OF CRYOPRESERVED SPERM

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The purpose of the work was to reproduce the sterlet of the Danube and Dnieper populations using cryopreserved sperm frozen in modified cryoprotective medium. Low-temperature cryopreservation of sterlet male reproductive cells was carried out in accordance with conventional procedures of cryobiology.

As a result of the performed work, it has been found that the applied cryoprotective environment, which includes methanol, enhances the cryoprotective effect and is technologically optimal for the process of the Danube and Dnieper populations of sterlet sperm storage. Fish sperm cells retained viability after defrosting; their ability to fertilize the eggs was restored. The results of the conducted studies indicate that, despite a certain decrease in the quality properties of sperm after freezing/defrosting, its ability to fertilize did not significantly decrease. Revived in this way larvae from two populations of sterlet were used to reproduce repairing brood stock under conditions of fish farming.

Such a method of sterlet sperm cryopreservation could be recommended for use at commercial enterprises with sturgeon fish commodity cultivation.

**Keywords:** sterlet, sperm, cryopreservation.

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