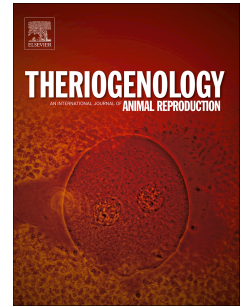


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**Artificial insemination of African catfish (*Clarias gariepinus*) using cryopreserved sperm**

Tamás Müller<sup>a\*</sup>, Tamás Szabó T<sup>a</sup>, Tímea Kollár<sup>a</sup>, Balázs Csorbai<sup>a</sup>, Zoran Marinović<sup>a</sup>, László Horváth<sup>a</sup>, Balázs Kucska<sup>b</sup>, Ádám Bodnár<sup>a</sup>, Béla Urbányi<sup>a</sup>, Ákos Horváth<sup>a</sup>

<sup>a</sup> Department of Aquaculture, Faculty of Agricultural and Environmental Sciences, Szent István University, 2100 Gödöllő, Hungary

<sup>b</sup> Department of Aquaculture, Faculty of Agricultural and Environmental Sciences, Kaposvár University, 7400 Kaposvár, Guba S. u. 40. Hungary

\*Corresponding author at: Department of Aquaculture, Faculty of Agricultural and Environmental Sciences, Szent István University, Péter Károly str. 1, 2100 Gödöllő, Hungary  
E-mail address: muller.tamas@mkk.szie.hu

**Abstract**

In this study, we aimed to develop a practical protocol for using cryopreserved sperm for induced/wild/tank spawning of fish species with external fertilization. Experiments were carried out on African catfish (*Clarias gariepinus*) as a model species. Sperm was collected for cryopreservation and diluted with the cryomedium (266 mM fructose, 20% methanol,) at a ratio of 1:1 with a final methanol concentration of 2.47 M pH7.73. Diluted sperm was loaded into 0.5-ml straws and cryopreserved by conventional protocol. Samples were prepared for insemination 24 hours later, by thawing for 13 s in a 40 °C water bath, and centrifuged at 500

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