

Researches Regarding the Embryonic Development of *Polyodon spathula* Species in C.C.D.P. Nucet Conditions

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SUMMARY

Embryonic development of *Polyodon spathula* (Walbaum 1792) starts with roe fecundation and ends to hatching. In embryonic development of this species were observed 36 stages. The interval for temperature regarding embryonic development is 14-18 C degrees, and optimum is 16 C degrees. The unpregnate roe has an egg-shape form, size between 2,7-3 mm and gray-dun to gray-black color. The stage 1 starts immediately after fecundation when roe is orientated with both poles to horizontal axe (Fig. 1). After successive transformations (Fig. 2-6), in 36-th stages (after 240 hours) the body is gray-pellucid, the tail is almost erect, and the head presents a longitudinal segment till pericardial cavity. Know ledges about embryonic development characteristics guided to comprehension of organism needs and influence factors for technological process substantiation.

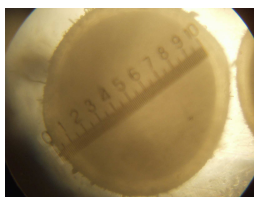


Fig. 1. Stage 1

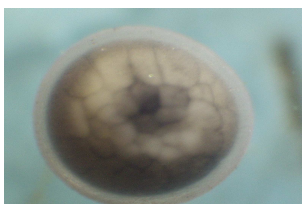


Fig. 2. Stage 11

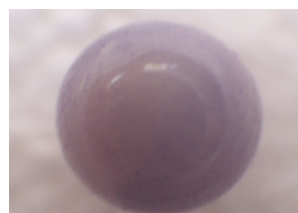


Fig. 3. Stage 16

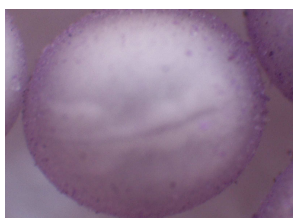


Fig. 4. Stage 22

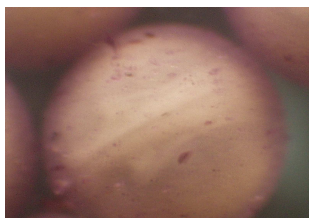


Fig. 5. Stage 25



Fig. 6. Stage 36

REFERENCES

1. Costache, M. (2008). Studii și cercetări privind tehnologia de reproducere artificială și dezvoltare postembrionară a speciei de sturion nord-american *Polyodon spathula* (Walbaum 1792) în condițiile din România. Teză de doctorat, Galați.