

**EFFECTS OF CRUDE METHANOLIC EXTRACT OF PURPLE NUTGRASS  
(*CYPERUS ROTUNDUS* L.) TUBERS ON THE MATURATION OF GOLDFISH  
OOCYTES**

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## ABSTRACT

*Cyperus rotundus* L. is a pernicious weed, which is traditionally used for different medical purposes and is locally recommended for antifertility purposes. A number of pharmacologically important constituents have been previously isolated from the plant. This study aims to test the effects of the crude methanolic extract of *C. rotundus* L. on the maturation of goldfish oocytes. The extract is found to induce 100% maturation at 5 mg/mL concentration. However, it becomes toxic at higher concentration. All goldfish oocytes (100% ) has died at 20 mg/mL concentration. The steroids and flavonoids present in the plant may be responsible for inducing goldfish oocyte maturation, whereas the alkaloids may be toxic to the oocytes. Further studies using mammalian systems *in vivo* and characterization of individual constituents are recommended.