

RESEARCH ARTICLE

# Effect of leaf extract of *Eclipta alba* on haematology of *Clarias batrachus*

PREETI MISHRA AND SEEMA GUPTA

---

**ABSTRACT.....** A study was undertaken to monitor the effect of aqueous and alcoholic extract of leaf of *Eclipta alba* on haematological parameters of *Clarias batrachus*. Fishes of average weight of 70-80 g were treated with the dose of 10 and 20 ppm of extract. Blood sample was collected on day 7, 14, 21 and 28 after treatment for analysis of RBC, Hb, PCV and WBC. Application of 10 and 20 ppm of both the extracts showed significant effect at various sampling points on RBC and hemoglobin. PCV was not affected significantly by the aqueous extract however; alcoholic extract could show significant alteration with treatment and duration. Two doses of aqueous and alcoholic extracts significantly altered the WBC at different sampling points although their interaction had no consistent effect with aqueous extract. Statistically significant results were noticed with aqueous extract on MCV and alcoholic extract on MCH and MCHC.

**KEY WORDS.....** *Clarias batrachus*, *Eclipta alba*, Leaf extract, Haematology

**HOW TO CITE THIS ARTICLE** - Mishra, Preeti and Gupta, Seema (2013). Effect of leaf extract of *Eclipta alba* on haematology of *Clarias batrachus*. *Asian J. Animal Sci.*, 8(2) : 73-80.

**ARTICLE CHRONICLE** - Received : 10.10.2013; Revised : 15.10.2013; Accepted : 03.11.2013

Author for Correspondence -

**PREETI MISHRA**

Department of Zoology,  
Government N.P.G. College of  
Science, RAIPUR (C.G.) INDIA  
Email: pmishra26463@gmail.com

See end of the article for **Coopted  
authors'**