

Original Article

Effects of aqueous extract of *Bridelia ferruginea* stem bark on some haematological parameters of albino ratsOlarewaju, O.I.^{1*}, Oloyede, O.I.¹, Ojo, O.A.² and Onikanni, S.A.²¹Department of Biochemistry, Ekiti State University, Ado Ekiti, Ekiti State, Nigeria.²Department of Chemical Sciences, Biochemistry Unit, Afe Babalola University, Ado Ekiti, Ekiti State, Nigeria.**Abstract**

Blood and blood components play vital role in maintenance of homeostasis. However, small alteration in standard levels of blood components may lead to severe diseases or disorders. In present study we explore dose dependent effects of *Bridelia ferruginea* on hematological parameters. The hematological responses of albino rats fed with aqueous extract of *Bridelia ferruginea* stem bark was investigated at end of experiment by invitro method. Sixteen albino rats were divided into four groups, with different dosage and control group. Increasing doses (100, 200 and 400 mg kg⁻¹ body weight) of the extract were administered orally to the rats for a period of two weeks. The result noted in terms of significant decreases in the level of hemoglobin (Hb), packed cell volume and percent monocyte counts were noted, whereas significant increases were observed in percent neutrophil and lymphocyte counts of the *Bridelia ferruginea* treated animals. Thus the dose dependent effects of *Bridelia ferruginea* were observed in various groups. Therefore, administration of high dose of *Bridelia ferruginea* may be destructive to blood components, whereas at low dose it is not much toxic.

Keywords: *Bridelia ferruginea*, hematologic study, hemoglobin, monocyte

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