

Screening of immunomodulatory activity of plant extracts

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Immunity is a state of having sufficient biological defenses to avoid infection, disease, or other unwanted biological invasion and is related to the functions of the immune system (Wikipedia). The immune system has been called the “Pacemaker” of life.

The Immunomodulatory activity of methanolic extract of *Pedaliium murex*, and *Plyllanthus acidus* were under taken on swiss albino mice and Wister rats of mixed population. Experiments were carried out to determine phagocytic activity, humoral antibody response, and cell mediated immune response using carbon clearance test, sheep erythrocyte agglutination method and delayed type of hyper sensitivity reaction. In this study, different doses (100, and 200 mg/kg body weight/day) of the methanolic extract of the plants showed significant activity and increased phagocytic response, both cellular and humoral antibody response, the result were compared with control and standard drug (levamisole). The activity reported was dose dependent and set of data was analyzed using one-way analysis of variance (ANOVA) followed by Newman-Keul Multiple Comparison test p values < 0.05 were considered significant. It has been concluded that the test extract posses promising immunostimulant properties.