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J Plant Pathol Microbiol 2018, Volume 9
DOI: 10.4172/2157-7471-C2-012

Genetics of flower color in periwinkle *Catharanthus roseus* (L.) G.Don

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Genetics of flower color in periwinkle *Catharanthus roseus* (L) G.Don were investigate by inheritance two types (strains) of plants with different flowers color were used in this study, Violet (V) and White (W) color as parents, to determine the number of genes involved. This study was conducted at the Department of Chemistry &Biology at the Faculty of Education, University of Kassala, Kassala State, Sudan, during the autumn seasons for two years 2010- 2012. First the two parents were covered to ensure self-pollination. Reciprocal cross has been carried out between the two inbred parents. The study showed that a single pair of genes is probably involved in flower color and that gene for violet color is incompletely dominant over that for white color. The reciprocal crosses gave the same results indicating no role of cytoplasmic genes in the inheritance of these colors.

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