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Effects of the phytochemical extracts of Marigold flower on the development of Drosophila Melanogaster

Drosophila melanogaster, a well-established model organism, is extensively used in biological research due to its short life cycle, ease of genetic manipulation, and a fully sequenced genome. Its use has been instrumental in advancing our understanding of fundamental biological processes, from embryonic development to neurogenetics. This study investigates the potential bioactive effects of phytochemical compounds extracted from marigold flowers on *Drosophila melanogaster*. Marigold flowers are rich in secondary metabolites, including carotenoids, flavonoids, and terpenes, which are known for their potential pharmacological properties. The research aims to identify and characterize specific compounds from these extracts and evaluate their influence on the behavioral responses of *D. melanogaster*. The findings of this study could provide new insights into the biological activities of marigold-derived compounds and their potential applications in various fields.

Author: MOHITH VISHNUVARDHAN REDDY, PULI (Student, Department of Biotechnology and Genetics, School of Sciences, JAIN (Deemed-to-be University))

Co-author: Dr SHARMA U.S., Upendra (Assistant Professor, Department of Biotechnology and Genetics, School of Sciences, JAIN (Deemed-to-be University))

Presenter: MOHITH VISHNUVARDHAN REDDY, PULI (Student, Department of Biotechnology and Genetics, School of Sciences, JAIN (Deemed-to-be University))

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