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Evaluation of anti-aging effects of vitamins in *Drosophila*

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Aging is a natural phenomenon that has attracted extensive biological research efforts in past. Interest in this area is growing since the discovery of single gene mutations that extended the life-span of laboratory model organisms. Many molecules have been reported to extend the life-span of laboratory model organisms. Insulin/insulin-like growth factor controlled lifespan extension in the nematode worm *Caenorhabditis elegans* is due to some lifespan-extending mutations. Diet restriction method can also extend the life-span of Drosophila and *Caenorhabditis elegans*. In this study we have tested the group of vitamins (vitamin B1, B2, B9, B12 and A) by feeding them at different concentrations to *Drosophila*. It is observed that vitamin B1 at 5 µM, vitamin B2 at 500, 200, 1 µM, vitamin B9 at 500, 200 µM, vitamin B12 at 500 µM, vitamin A at 1 µM, concentrations enhanced the average age of *Drosophila* population. Further the anti-aging effects of aforementioned group of vitamins are needed to be explored at molecular level in *Drosophila*.

Biography

Kirtypal Singh is currently pursuing PhD in Biotechnology from School of Animal Biotechnology at Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana. He has completed MSc and MPhil in Biotechnology from Lovely Professional University, India.

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