# **Traditioanl Medicine and Ethnomedicine**

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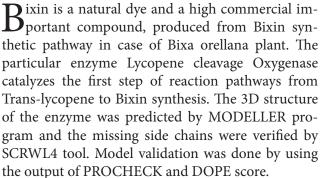
**Title:**Homology Modelling of Lycopene Cleavage Oxygenase: The Key Enzyme of Bixin Production

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Abstract: (Up to 500-600 Words).

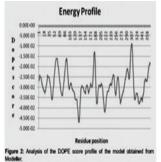


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# Figures/ Images/ Graphs/ Table (both Color and BW) if any





### Importance of Research: (Up 200 Words)

Annatto (Bixa orellana L.) plant contains pigment contains bixin and norbixin, valuable natural colorants (Rodrigues et al., 2007). These pigments are widely used for industrial food and beverages, cosmetics, and as natural dyes for textiles (Chattopadhyay et al., 2008). Bixa orellana seed extracts also lowers blood glucose level by stimulating peripheral utilization of glucose so the seed might be of pharmacological importance (Russell et al., 2008). The natural dye bixin is extracted from the seed of the annatto plant and widely used as food colorant. Many restrictions are on the use of synthetic additives in the food industry as the synthetic dye having adverse effect but the investigation on biochemical properties of Bixa orellana plants and seed extracts has proven that it is having tumour inhibiting capacity (Reddy et al., 2005).

**Keywords:** Bixin, Homology Modelling, Docking, **RC** Plot

### References: (15-20 References hyperlinked with Respective Publisher)

- 1. Altschul SF, Gish W, Miller W, Myers EW, Lipman DJ (1990) Basic local alignment search tool J Mol Biol 215: 403-410.
- 2. Bouvier F, Suire C, Mutterer J, Camara B (2003) Oxidative remodelling of chromoplast carotenoids: identifi cation of the carotenoid dioxygenase CsC-CD and CsZCD genes involved in Crocus secondary metabolite biogenesis Plant Cell 15: 47-62.
- 3. Chattopadhyay P, Chatterjee S, Sen SK (2008) Biotechnological potential of natural food grade biocolorants African Journal of Biotechnology 7: 2972-2985.
- 4. Caspi R, Altman T, Dale JM, Dreher K, Fulcher CA, et al. (2010) The MetaCyc database of metabolic pathways and enzymes and the BioCyc collection

of pathway/genome databases. Nucleic Acids Res 38: 473-479.

- 5. Kloer DP, Ruch S, Al-Babili S,Beyer P,Schulz GE(2005) The structure of a retinal-forming carotenoid oxygenase. Science 308: 267.
- 6. Altschul SF, Gish W, Miller W, Myers EW, Lipman DJ (1990) Basic local alignment search tool J Mol Biol 215: 403-410.
- 7. Bouvier F, Suire C, Mutterer J, Camara B (2003) Oxidative remodelling of chromoplast carotenoids: identification of the carotenoid dioxygenase CsCCD and CsZCD genes involved in Crocus secondary metabolite biogenesis Plant Cell 15: 47-62.
- 8. Chattopadhyay P, Chatterjee S, Sen SK (2008) Biotechnological potential of natural food grade biocolo-

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9. Caspi R, Altman T, Dale JM, Dreher K, Fulcher CA, et al. (2010) The MetaCyc database of metabolic pathways and enzymes and the BioCyc collection

## Biography: (Up to 200 words)

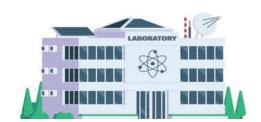
John has completed his PhD from Oxford University. He is the Head of the department of Biology and dean of a premier research institute. He has published more than 35 papers in reputed journals and has been serving as an editorial board member of repute journals.

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# Information of Author's research centre/ Laboratory

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