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Reverse Screening on Indicaxanthin from *Opuntia ficus-indica* as natural chemoactive and chemopreventive agent

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**Highlights**

- Indicaxanthin is a bioactive betalain extracted from *Opuntia ficus indica* fruits
- Indicaxanthin provides a broad-spectrum of pharmaceutical activity
- Reverse screening of Indicaxanthin identified potential targets
- MD simulations and  $\Delta G_{\text{bind}}$  calculation showed behavior of drug-target complexes
- Indicaxanthin could act as neuromodulator, anti-inflammatory, and anticancer agent

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