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

Author (s) Name & Affiliation:First Author’s Name \*, Second Author’s Name

 \*University of Oxford, UK
 Cambridge University, UK

(\* Represents Presenting Author)

**Email:** Presenting Author’s email

**Abstract:**

Bixin is a natural dye and a high commercial important compound, produced from Bixin synthetic pathway in case of *Bixa orellana* plant. The particular enzyme Lycopene cleavage Oxygenase catalyzes the first step of reaction pathways from Trans-lycopene to Bixin synthesis. The 3D structure of the enzyme was predicted by MODELLER program and the missing side chains were verified by SCRWL4 tool. Model validation was done by using the output of PROCHECK and DOPE score. (Up to 300 words).

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

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



**Biography:**

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. (Up to 100 words)

**Research Interest:** Bioinformatics, Drug Designing, Chemo Informatics

**Author Information** (Presenting Author)

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| University/Organization |  |
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