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| Name: | [**UTTAR PRADESH JOURNAL OF ZOOLOGY**](http://www.mbimph.com/journal/1) |
| Manuscript Number: | **Ms\_UPJOZ\_5136** |
| Title of the Manuscript: | **Molecular Basis of 20E Biosynthesis and its Function** |
| Type of the Article | **Review Article** |

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| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This manuscript provides critical insights into the hormonal regulation of silkworm development, immunity, and metabolism through the action of 20-hydroxyecdysone (20E).**  **It highlights key genetic components like BmEO, 3DE-3β-reductase, and nobo-Bm involved in 20E biosynthesis and their functional significance in developmental progression and survival.**  **The study also demonstrates the potential of manipulating 20E pathways for improving silk yield, offering valuable applications in sericulture biotechnology.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | **Looks good** |  |
| **Is the manuscript scientifically, correct? Please write here.** | Yes |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Cited references are only up to 2020; none beyond that. It would be good if you could include more recent ones. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | Good |  |
| **Optional/General** comments | **Good** |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

**Vijayakumar Chinnathambi, Tamil Nadu Veterinary and Animal Sciences University, India**