



Name:	<u>UTTAR PRADESH JOURNAL OF ZOOLOGY</u>
Manuscript Number:	Ms_UPJOZ_3532
Title of the Manuscript:	Developmental and Cytogenetic toxicity of 3D printing Material on sea urchin Arbacia lixula
Type of the Article	



1: Review Comments

	Reviewer's comment	Author's feedback
Compulsory REVISION comments		Okay
1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)	The manuscript titled "Developmental and Cytogenetic Toxicity of 3D Printing Material on Sea Urchin Arbacia lixula" holds significant importance for the scientific community. It addresses a pressing environmental concern by investigating the ecotoxicological effects of polylactic acid (PLA), a widely used material in 3D printing, on marine echinoderms. Understanding the impact of PLA pollution on marine organisms is crucial for assessing the broader ecological implications of bioplastic use and informing sustainable waste management practices. The findings of this study contribute valuable insights that can guide policymakers, researchers, and industry stakeholders in mitigating plastic pollution and preserving marine ecosystems. Therefore, the manuscript's findings are pertinent and relevant to the ongoing discourse on environmental sustainability and plastic pollution mitigation efforts.	
2. Is the title of the article suitable? (If not please suggest an alternative title)	The title is suitable as it provides a clear and concise overview of the study's subject matter, making it easily identifiable and relevant to readers interested in ecotoxicology and marine biology.	



<p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The abstract is comprehensive as it provides a clear and succinct summary of the research, enabling readers to grasp the study's objectives and findings efficiently.</p> <p>The structure of the manuscript follows a logical sequence, guiding the reader through the research process from background information to results and conclusions.</p> <p>The manuscript appears to be scientifically sound in its methodology and presentation of results. The study design is well-described, with clear experimental procedures outlined in the Materials and Methods section.</p> <p>Yes its sufficient</p>	
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Minor REVISION comments	The references cited in the manuscript are relevant and recent, providing a comprehensive overview of the existing literature on the topic. However, to further enrich the discussion, additional references could be included, particularly those that explore the ecotoxicological effects of PLA on marine organisms and the broader implications of plastic pollution on marine ecosystems.	
Optional comments		

PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	