



ISSN NO. 2320-5407

ISSN(O): 2320-5407 | ISSN(P): 3107-4928

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

Manuscript No.: IJAR-57760

Title: Histopathological Toxicity Evaluation of Deltamethrin on the Integrity of Ovarian Follicles on Mice (*Mus musculus*).

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality	Excellent			
Clarity	Excellent			
Significance	Excellent			

Reviewer's ID: Dr. Sumathi

Detailed Reviewer's Report

- 1. Deltamethrin (also spelled *deltametrin*) is a potent synthetic pyrethroid insecticide used to control a wide range of pests in agriculture, households, and public health. It acts as a neurotoxin, paralyzing insects on contact, but carries significant environmental and toxicity risks.**
- 2. Deltamethrin is a highly effective, synthetic pyrethroid insecticide widely used in agriculture, public health, and home pest control. It belongs to a class of man-made chemicals designed to mimic the natural insect-killing properties found in chrysanthemum flowers.**
- 3. An insecticide is a type of pesticide specifically formulated to kill, harm, repel, or mitigate insects. They are widely used in agriculture, homes, gardens, and public health to control pests like mosquitoes, roaches, and termites.**
- 4. A follicle is a small, fluid-filled sac or cavity in the body that serves as a protective housing for another structure. The term most commonly refers to either the structures that house developing eggs (ovaries) or the roots from which hair grows (skin).**

REVIEWER'S REPORT

- 5. Histopathological toxicity is the microscopic study of tissue and cellular damage caused by toxic substances, such as drugs, environmental pollutants, or poisons. It identifies specific morphological alterations—like cellular necrosis, inflammation, or fibrosis—to reveal how and where a toxic agent affects target organs.**
- 6. Deltamethrin is a Type II synthetic pyrethroid insecticide widely used for agricultural, veterinary, and public health pest control. It is a neurotoxin that alters the function of voltage-gated sodium channels in insects and mammals.**
- 7. The integrity of ovarian follicles is the structural and biological stability of the oocyte and its surrounding somatic cells (granulosa and theca cells). It is essential for successful folliculogenesis, hormone production, and fertility. Maintaining this integrity requires an intact basal lamina and healthy cellular junctions.**
- 8. Key words are good.**
- 9. Histopathological picture is good with significant points.**
- 10. Summary points can be included.**
- 11. In result part for values can be made graphs.**
- 12. After a small changes good to publish in your journal.**