

REVIEWER'S REPORT

Manuscript No.: IJAR-58578

Title: Effect of black soldier fly larvae meal on hematological and biochemical parameters of the Japanese quail (*Coturnix japonica*).

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. The Japanese quail (*Coturnix japonica*) is a small, fast-growing ground bird native to East Asia that is widely raised for its edible eggs and meat. It is also known as the Coturnix quail.
2. Dried larvae are the dehydrated immature stages of insects—most commonly the black soldier fly or mealworms—processed to create a shelf-stable, high-protein food source. They are widely used as a nutritious feed supplement for backyard chickens, pet reptiles, fish, and wild birds.
3. Blood parameters are the measurable components and physical characteristics of blood, such as red blood cell counts, hemoglobin levels, and chemical balances, which doctors use to check health, find diseases, and see how well organs work.
4. Alternative proteins are foods that replace conventional animal-based meat, dairy, and eggs with plant-based sources, fermentation-derived microbes, and cell-cultivated animal cells. They are designed to provide similar nutrition and flavors while using fewer natural resources and creating fewer greenhouse gas emissions.

REVIEWER'S REPORT

- 5. To soybean and fish meal in animal diets, improving gut health, supporting growth at moderate levels, and providing lauric acid. However, high inclusion rates can reduce feed intake or alter meat and lipid profiles.**
- 6. Hematological and biochemical parameters are measurable blood tests that evaluate cellular blood components and chemical constituents in serum or plasma. Key categories include complete blood counts, metabolic panels, and organ function markers.**
- 7. Hematological and biochemical parameters are measurable blood tests used to check health, focusing on blood cells and chemical levels. Hematological parameters look at blood cells, such as red cells, white cells, and platelets. Biochemical parameters look at chemical substances in the liquid part of blood, such as enzymes, proteins, and sugars.**
- 8. The effects of black soldier fly larvae (BSFL) meal as an animal feed ingredient include supporting normal growth, improving gut health, and providing high levels of protein and lauric acid, though high inclusion levels can negatively impact performance.**
- 9. Key words can be given more.**
- 10. Result part tables with values are impressive.**
- 11. But for values can be made graphs.**
- 12. Summary points also be added.**
- 13. Significant points are good and meaningful.**
- 14. After a small changes good to publish in your journal.**