

Peer Review

Review of: "Evaluation of Antidiabetic Potential of Gymnema Sylvestre and Metformin Combination in Streptozotocin-Induced Diabetic Rats"

Nagalakshmi Kamaraj¹

1. Biotechnology, Karpaga Vinayaga College of Engineering and Technology, Chennai, India

Comment 1: The total study period of 28 days is not sufficient to study the effect. Physiological effects may take around 45 days to show up.

Comment 2: The 25 mg/kg dosage of STZ administered in two injections is insufficient for Sprague Dawley rats. A dosage range between 35–45 mg/kg shows the induced hyperglycemia levels exceeding 350 mg/dL.

Comment 3: The manuscript lacks the phytochemical description of G.sylvestre.

Comment 4: The creatinine level is reduced way too low compared to a normal physiological condition.

Comment 5: HOMA index calculation is missing, though an insulin resistance model is used for the study.

Comment 6: The lack of histopathology study results fails to add correlation with biochemical changes.

Declarations

Potential competing interests: No potential competing interests to declare.