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Dear Editor:

This is to certify that the manuscript entitled “**Advances in the mechanism of action of metformin in pituitary tumors--a review**” has been edited by Scientific Writing Solutions, USA for English writing. Our editors are professionals in the US academic institutions whose research areas are closed related to the researches in the manuscripts. They are English native speakers and their editing skills passed our vigorous tests. If you have any questions, please contact me at [Editor@Sciwriting.com](mailto:Editor@Sciwriting.com).

Sincerely,

A handwritten signature in black ink that reads "Jeff Johnson". The signature is written in a cursive, flowing style.

Jeff Johnson

Chief Editor

Scientific Writing Solutions, USA

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