

## Certificate of Biostatistics

August 08, 2021

To World Journal of Gastroenterology Editors,

Title of Study: Knockdown of DDX51 inhibited tumor growth of esophageal squamous cell carcinoma via PI3K/AKT pathway

Chief investigator: **Ming-Yan Zhang**, Department of Gastroenterology, Shandong Provincial Hospital Affiliated to Shandong First Medical University, Jinan 250000, China

This letter is to confirm that I have read the ethics application prepared for this study, and that in my opinion the statistical methods and technique mentioned are appropriate for the research.

Please contact me if you have any queries.

Sincerely,

Ming-Yan Zhang

A handwritten signature in black ink, reading "Ming-Yan Zhang". The signature is written in a cursive style with a long, sweeping underline.