



**DEPARTMENT OF STATISTICS
UNIVERSITY OF KARACHI
KARACHI**

Mudassir Uddin

M.Sc (Karachi); M.Phil (Karachi); M.Sc (Oxford); Ph.D (Aberdeen)

Professor & Chairman

Dated: 04.05.2021

Certificate of Biostatistics

To whom it may concern

Title of the study: Effect of Glycyrrhizic Acid and 18 β -Glycyrrhetic Acid on the Differentiation of Human Umbilical Cord-Mesenchymal Stem Cells into Hepatocytes

Chief Investigator: Asmat Salim

Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan

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

Please contact me if you have any queries.

Sincerely,

Prof. Dr Mudassir Uddin
(Chairman)

cc to:

- 1) file concern