DEPARTMENT OF STATISTICS UNIVERSITY OF KARACHI KARACHI



Mudassir Uddin

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

Adjunct Professor & Former Chairman

Dated: 25.03.2022

Certificate of Biostatistics

To whom it may concern

Title of the study: Overexpression of GATA-4 and MEF2C in humanumbilical cord mesenchymal stem cells increase their differentiation into

cardiac-like cells

Chief Investigator: Kanwal Haneef

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 (Former *Chairman*)

cc to:

1) file concern