



# Certificate of Biostatistics

August 2, 2018

To whom it may concern,

Title of Study: Temporal clinical, proteomic, histological and cellular immune responses of DSS-induced acute colitis

Principal Investigator: Dr. Joseph Alan Frank

Chief, Senior Investigator  
Frank Laboratory  
Laboratory of Diagnostic Radiology Research  
Radiology and Imaging Sciences  
Clinical Center  
Adjunct Senior Investigator  
National Institutes of Biomedical Imaging and Bioengineering  
National Institutes of Health

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

Please contact me if you have any inquiries.

Sincerely,

A handwritten signature in black ink, appearing to read "Joseph Frank", written over a horizontal line.

Joseph A. Frank, MD  
Senior Investigator  
National Institutes of Health