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This letter is to certify that the research work entitled, '**Chronic hyperglycemia drives alterations in macrophage effector function in pulmonary tuberculosis**' represents original work performed by the nominated applicant **Ms. Sudhasini Panda** as part of her Ph.D. thesis under my supervision and guidance in the Department of Biochemistry, All India Institute of Medical Sciences, New Delhi, India. The work represents original research relevant in the field of Tuberculosis Immunology and Diabetes. The submitted research work is funded by Science and Engineering Research Board (SERB), (EEQ/2017/000165), and was approved by the institute ethics committee, All India Institute of Medical Sciences (IECPG-374/28.09.2017). All the experiments were carried out in accordance with relevant institutional and national guidelines and regulations.

Sincerely

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