



राष्ट्रीय प्रतिरक्षाविज्ञान संस्थान

NATIONAL INSTITUTE OF IMMUNOLOGY

## CERTIFICATE

This is to certify that this thesis entitled “ **Determination of the function of a Rab protein in intracellular trafficking in *Leishmania*** ” by “ **Sudha Bala Singh** ” in partial fulfillment of the Ph.D. degree, of the **Jawaharlal Nehru University**, embodies the work done by the candidate under my guidance at the **National Institute of Immunology**. The work is original and has not been submitted in part or in full for any other degree or diploma of any university.

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