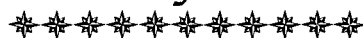


## *Certificate*



*This is to certify that the work incorporated in the thesis "Studies on cellular factors associated with HIV-1 pathogenesis" is an original contribution made by Ms. Jayashree S. Ladha towards the degree of Doctor of Philosophy (Ph.D) in Biotechnology. Materials and help obtained from other sources have been duly acknowledged in the thesis.*

A handwritten signature in cursive script, appearing to read "Jayashree S. Ladha".

*Jayashree S. Ladha*

*Ph.D candidate.*



## *Certificate*

*This is to certify that the work incorporated in the thesis "Studies on cellular factors associated with HIV-1 pathogenesis" is an original contribution made by Ms. Jayashree S. Ladha towards the degree of Doctor of Philosophy (Ph.D) in Biotechnology under my guidance. Materials and help obtained from other sources have been duly acknowledged in the thesis.*

*Debashis Mitra*

*Dr. Debashis Mitra, Ph.D.*

*Research Guide.*