



Jnana Bharathi, Bangalore, Karnataka - 560056, India

Tel: +91-80-22961462/61, Fax: +91-80-23219295 / 23211020

Department of Microbiology and Biotechnology

Dr. S. Chidananda Sharma, Ph.D

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Professor

CERTIFICATE

This is to certify that the thesis entitled **“Regulation and Expression Pattern of AP-1 Factors in Breast Cancer Cells: Role of Estradiol-17 β , Protein kinase C and Protein Kinase A”** submitted by **Mr. Babu. R. Lamani** for the fulfillment of requirement for the degree of **DOCTOR OF PHILOSOPHY IN BIOTECHNOLOGY** to Bangalore University is based on the original work carried out by him under my guidance and supervision. It is also certified that this thesis or any part thereof has not been submitted for any purpose to any other university.

Prof. S. Chidananda Sharma