


## CERTIFICATE

DEPARTMENT OF MICROBIOLOGY, FACULTY OF SCIENCE  
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA,  
VADODARA- 390 002, GUJARAT, INDIA

Statement under O. Ph.d.8/(iii) of the M. S. University of Baroda,  
Vadodara

This is to certify that the work included in present thesis titled "Characterisation of genes involved in the development and virulence of pathogenic fungi" has been carried out by Ms. Hiral Shah, under my direct supervision and guidance. The work accomplished in the thesis is original and with innovative findings. The thesis has not been submitted in any other form for award or any degree, diploma, unless otherwise stated. The thesis comprises an original work satisfying the criteria for the award of the degree of Doctor of Philosophy from The Maharaja Sayajirao University of Baroda, Vadodara-390002, Gujarat, India.



Dr. Johannes Manjrekar

Research Supervisor,

Department of Microbiology and Biotechnology Centre,  
Faculty of Science,  
The M. S. University of Baroda,  
Vadodara - 390 002