

**INVITRO MUTAGENIC STUDIES  
OF PORTULACA spp.**

*A Thesis*

*Submitted to*

*The Maharaja Sayajirao University of Baroda Vadodara*

*In partial fulfillment of the requirement for the Degree of*

**DOCTOR OF PHILOSOPHY  
*in*  
BOTANY**

**BY  
ARCHANA SRIVASTAVA**

*Under the guidance of*

**PROF. ARUNA G. JOSHI**

**DEPARTMENT OF BOTANY  
FACULTY OF SCIENCE  
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA  
VADODARA  
2017**