

**ROLE OF POLY (ADP-RIBOSE) POLYMERASES IN  
PANCREATIC ISLET DIFFERENTIATION  
FROM STEM/PROGENITORS**

**THESIS  
SUBMITTED TO**



**THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA,  
VADODARA, GUJARAT**

**FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY IN BIOCHEMISTRY**

**BY  
ABHAY SRIVASTAVA**

**UNDER THE GUIDANCE OF  
PROF. SARITA GUPTA**

**MOLECULAR ENDOCRINOLOGY AND STEM CELL RESEARCH LABORATORY  
DEPARTMENT OF BIOCHEMISTRY  
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THE M. S. UNIVERSITY OF BARODA  
VADODARA- 390 002**

**JUNE, 2017**

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