

# **Novel roles for $\beta$ -catenin and Nup358 in Wnt signaling**

**Thesis submitted to the  
University of Pune**

**For the degree of  
Doctor of Philosophy  
In Biotechnology**

**By  
Mr. Mukesh Mani Tripathi**

**Research Supervisor  
Jomon Joseph, Ph.D.  
(Scientist D)**

**National Centre for Cell Science,  
Pune University Campus,  
Pune – 411007, India.**

**January 2012**