

**MOLECULAR AND FUNCTIONAL CHARACTERIZATION OF  
TYPE I COLLAGEN GENE (COL1A 1 AND COL1A 2) AND ITS  
INTERACTING PARTNER HSP47 IN OSTEOGENESIS  
IMPERFECTA PATIENTS**

**A THESIS**

**Submitted to the  
FACULTY OF SCIENCE  
PANJAB UNIVERSITY, CHANDIGARH  
For the degree of**

**DOCTOR OF PHILOSOPHY**

**2018**

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