I hereby declare that the work contained in the present PhD thesis entitled "Investigating factors influencing in vitro differentiation during development using mouse embryonic stem cells as a biological system" submitted at Jaypee University of Information Technology, Waknaghat, India, is an authentic record of my original research work, carried out under the supervision of Dr. Simran Tandon. This work has not been submitted in part or full for the award of any other degree or diploma in any other University/Institute.

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