

**DNA Barcode based calibration of  
Indian freshwater fishes for analyzing  
species diversity and shared nucleotide traits**

A thesis submitted to Assam University in partial fulfilment of the  
requirement for the degree of Doctor of Philosophy in the  
Department of Biotechnology, Assam University

**By**

**MOHUA CHAKRABORTY**  
**Ph.D. Reg. No. 1711/2011 and Date: 15.09.11**



**DEPARTMENT OF BIOTECHNOLOGY**  
**HARGOBIND KHURANA SCHOOL OF LIFE SCIENCES**  
**ASSAM UNIVERSITY SILCHAR-788011, INDIA**  
**SEPTEMBER, 2014**