

**Novel Pd-Catalyzed Carbon-Carbon and Carbon-Heteroatom  
Cross Coupling Reactions towards the Synthesis of Diverse  
Functional Molecules**

**A Thesis submitted to the University of North Bengal**

**For the Award of  
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**in**

**Chemistry**

**BY**

**BISWAJIT MONDAL**

**GUIDE**

**Dr. SAJAL DAS**

**Department of Chemistry**

**University of North Bengal**

**CO-GUIDE**

**Dr. MRINALKANTI KUNDU**

**TCG Lifesciences Pvt. Ltd**

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