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## Identification of Species Specific DNA Marker as Barcode Sequence from Greater Indian One-Horned Rhinoceros (*Rhinoceros unicornis*) from North East India

By Tarikul Mazumder

GRIN Publishing Aug 2014, 2014. Taschenbuch. Condition: Neu. Neuware - Master's Thesis from the year 2014 in the subject Biology - Geobiology, Assam University, language: English, abstract: The North East India is a reservoir of rich biodiversity for much of India's flora and fauna, and as a consequence, the region is one of the richest in biological values. DNA based species identification or DNA barcoding is an exciting tool for documenting biodiversity with a gene sequence. Here we focused on the development of DNA barcode sequence of Greater Indian one-horned Rhinoceros [*Rhinoceros unicornis*] by determining the DNA sequence of its mitochondrial 5 COI gene region using cross primer design for PCR amplification. The cross species primer pairs of forward primer fish [FISH COX F] and reverse primer invertebrate [INV R] DNA barcoding, successfully amplified the barcode sequence of *R. unicornis* which is confirmed through similarity search in National Centre for Biotechnology [NCBI, [ncbi.nlm.nih.gov](http://ncbi.nlm.nih.gov)] and Barcode of life [BOLD] database and submitted to NCBI-GenBank with accession no. JN417004 is the first COI barcode sequence of *R. unicornis* of Greater Indian one-horned Rhino. We observed the maximum identification of the query sequence in case of *R. unicornis* (99%) and *R. sondaicus* (93%)....



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