



Abstract

Testudines' Terrapins: DNA Barcoding and Their Conservation Status [†]

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Abstract: Terrapins are turtle types that live in freshwater or brackish water. There are 12 species of terrapin worldwide. A total of 26 COI sequences from worldwide terrapins were used in this study. The study aims to determine the global utility of terrapin DNA barcoding using novel COI sequences and compare them to other COI sequences previously published in BOLD Systems and GenBank. Nevertheless, the conservation status of terrapins is also taken into account in the interest of sustainability. The sequences contained three families, as determined by the UPGMA tree, with 33% of terrapins classified as least concern (LC) and 25% classified as critically endangered (CR). The genomic and bioinformatics analyses of terrapins reported here could be a basis for future research on this species worldwide.

Keywords: turtle; COI sequences; BOLD Systems; GenBank; sustainability; UPGMA tree and critically endangered



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Data Availability Statement: The data presented is authentic and was not improperly selected, manipulated, enhanced, or fabricated. The information can be found in GeneBank (accession numbers OL658844-OL658847) and BOLD Systems (Sequence IDs HYT001-21 to HYT004-21).

Conflicts of Interest: The authors declare no conflict of interest.