

5th International Conference on **Biodiversity**

March 10-12, 2016 Madrid, Spain

Phylogenetic position of *Psittacula* parakeet bird from Enggano Island, Indonesia based on analyses of cytochrome B gene sequences

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Enggano Island has *Psittacula* parakeet bird; *Psittacula longicauda* modesta. Phylogenetically, the position of the bird has not been Estudied yet. The recent study used DNA sequences of mitochondrial ND2 gene to analyze phylogenetic relationships within *Psittacula* parakeet birds. Blood samples were collected from two *Psittacula* species; *Psittacula alexandri* from Jawa Island, and *Psittacula longicauda* from Enggano Island and Natuna Island. Blood samples were taken from each bird and DNA was extracted from each blood sample. PCR was performed to amplify single DNA fragment of ND2, cytochromeb (Cyt B) and COI genes, separately using a pair of nucleotide primer. The DNA targets were then sequenced. Totally, 1020-bp of Cyt B gene was used to calculate genetic divergence within and between *Psittacula* parakeet, and to construct phylogenetic trees. DNA sequence data of *Psittacula longicauda* and others *Psittacula* species were taken from GenBank. Columba livia, Accipiter, and Cacatua were used as out group species. The genetic divergences within *Psittacula longicauda* were 3.70% for (Pl. modesta vs. Pl. longicauda), and 1.60% for (Pl. modesta vs. *Pl. longicauda*). Phylogenetic trees (NJ and ML trees) showed that based *Psittacula longicauda* (from Sumatra/Borneo Island) and *Pl. defontainei* (from Natuna Island).

Biography

Dwi Astuti is a researcher at the Division of Zoolology, Research Centre for Biology, Indonesian Institute of Sciences, Indonesia. She has completed her PhD from Hokkaido University, Sapporo, Japan. Her focus research is in the field of Bioscience, especially in DNA analyses for studying genetic diversity, molecular phylogeny, and molecular ecology and genetic of animals. She has published some papers in national and international scientific journals and has been serving as a reviewer of some scientific journals.

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