

**ANALISIS FILOGENETIK IKAN *Nemacheilus pfeifferae* (Bleeker, 1853)  
DARI BEBERAPA SUNGAI DI SUMATERA BARAT DAN KERABAT  
DEKATNYA BERDASARKAN GEN SITOKROM B**

**SKRIPSI**

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## ABSTRAK

Analisis filogenetik ikan *Nemacheilus pfeifferae* di Sumatera dan kerabat dekatnya berdasarkan gen sitokrom b telah dilaksanakan dari bulan Maret sampai Agustus 2016 di Laboratorium Genetika dan Biologi Sel, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Andalas, Padang. Amplifikasi DNA gen sitokrom b menggunakan teknik PCR. Jarak genetik antar populasi *N. pfeifferae* di Sumatera 0,4%-7,2% mengindikasikan adanya diferensiasi genetik pada populasi *N. pfeifferae* di Sumatera. *N. pfeifferae* bersifat monofiletik dengan *N. binotatus* dan *N. ornatusi* serta bersifat parafiletik dengan spesies lainnya.



## ABSTRACT

The phylogenetic analysis of *Nemacheilus pfeifferae* in Sumatra and closed relatives based on cytochrome b gene has been conducted from March to August 2016 in Genetic and Cell Biology Laboratory, Department of Biology, Faculty of Mathematics and Natural Sciences, Andalas University, Padang. DNA amplification of cytochrome b gene using PCR technique. The genetic divergences between *N. pfeifferae* populations in Sumatra were 0.4%-7.2%, indicated that there were genetic differentiation of *N. pfeifferae* populations in Sumatra. *N. pfeifferae* was monophyletic with *N. binotatus* and *N. ornatus* and paraphyletic with other species.

