

STUDI MORFOLOGI DAN KARIOTIPE BEBERAPA POPULASI BAJING

Callosciurus notatus (Boddaert, 1785) (Rodentia: Sciuridae)

DI SUMATERA BARAT

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FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

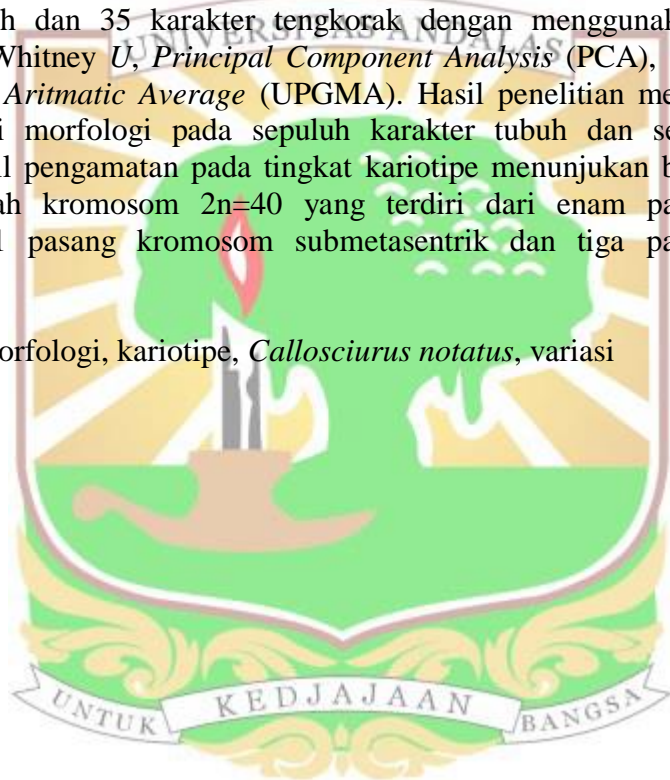
UNIVERSITAS ANDALAS

PADANG, 2017

ABSTRAK

Penelitian mengenai studi morfologi dan kariotipe beberapa populasi bajing (*Callosciurus notatus* (Boddaert, 1785)) di Sumatera Barat telah dilakukan dari bulan Maret 2016 hingga April 2017. Pengambilan 38 individu sampel dilakukan di Padang, Lubuk Basung, Sangir dan Baso dengan menggunakan metode survei serta pengkoleksian langsung di lapangan dan metoda *air drying* untuk pembuatan preparat kromosom. Pengukuran morfologi dan pembuatan preparat dilakukan Laboratorium Genetika dan Biologi Sel Jurusan Biologi Fakultas MIPA Universitas Andalas. Analisis morfologi dilakukan terhadap hasil pengukuran 21 karakter morfologi tubuh dan 35 karakter tengkorak dengan menggunakan uji Kruskal Wallis, Mann Whitney U, *Principal Component Analysis* (PCA), *Unweighted Pair Group Method Arithmetic Average* (UPGMA). Hasil penelitian menunjukkan bahwa terdapat variasi morfologi pada sepuluh karakter tubuh dan sembilan karakter tengkorak. Hasil pengamatan pada tingkat kariotipe menunjukkan bahwa *C. notatus* memiliki jumlah kromosom $2n=40$ yang terdiri dari enam pasang kromosom metasentrik, 11 pasang kromosom submetasentrik dan tiga pasang kromosom subtelosentrik.

Kata kunci : morfologi, kariotipe, *Callosciurus notatus*, variasi



ABSTRACT

A study about morphology and karyotype of plantain squirrel (*Callosciurus notatus* (Boddaert, 1785)) in several population in West Sumatra has been done from March 2016 until April 2017. There were 38 specimens of *C. notatus* which collected from Padang, Lubuk Basung, Sangir and Baso by using survey and direct collection method and air drying method for chromosomes preparation making. Morphometric measurement of morphology and chromosomes observation has been conducted in the Laboratory of Genetic and Biology Cell, Department of Biology, Faculty of Mathematics and Natural Sciences, Andalas University. The result of morphological measurement based on 21 external characters and 35 skull characters was analyzed by Kruskal Wallis test, Mann Whitney *U* test, Principal Component Analysis (PCA) and Unweighted Pair Group Method Aritmatic Average (UPGMA). The result showed that there was morphological variation in ten body characters and nine skull characters. Karyotype showed that chromosome number of *C. notatus* was $2n=40$ which consist of six pairs metacentric chromosomes, 11 pairs submetacentric chromosomes and three pairs subtelocentric chromosomes.

Keyword: morphology, karyotype, *Callosciurus notatus*, variation

