

TIPE SITOLOGI DUA SPESIES *PTERIS* DALAM HUBUNGANNYA DENGAN KETINGGIAN TEMPAT

Siti Zubaidah

Jurusan Biologi - FMIPA - Universitas Negeri Malang
Jl. Surabaya 6 Malang 65145

ABSTRACT

*A cytological study of the two spesies of Pteris (*Pteris biaurita* and *Pteris tripartita*) growing arround Malang was carried out. A hypothesis stated that ploidy was enchanced by cold weather. Those study want to find out the correlation between the altitude (with different temperatures) and ploidy of the two spesies. Cytological type and ploidy examined by chromosome number counting, using standart squash methods. The result of this research showed that *Pteris biaurita* and *Pteris tripartita* have two cytotypes, $2n = 58$ ($2x$ or diploid) and $2n = 116$ ($4x$ or tetraploid). There was no correlation between the ploidy level of *Pteris biaurita* and the altitude, but the ploidy level of *Pteris tripartita* apt to be raised in higher altitude.*

Key words: *cytological type, Pteris, ploidy, altitude.*
