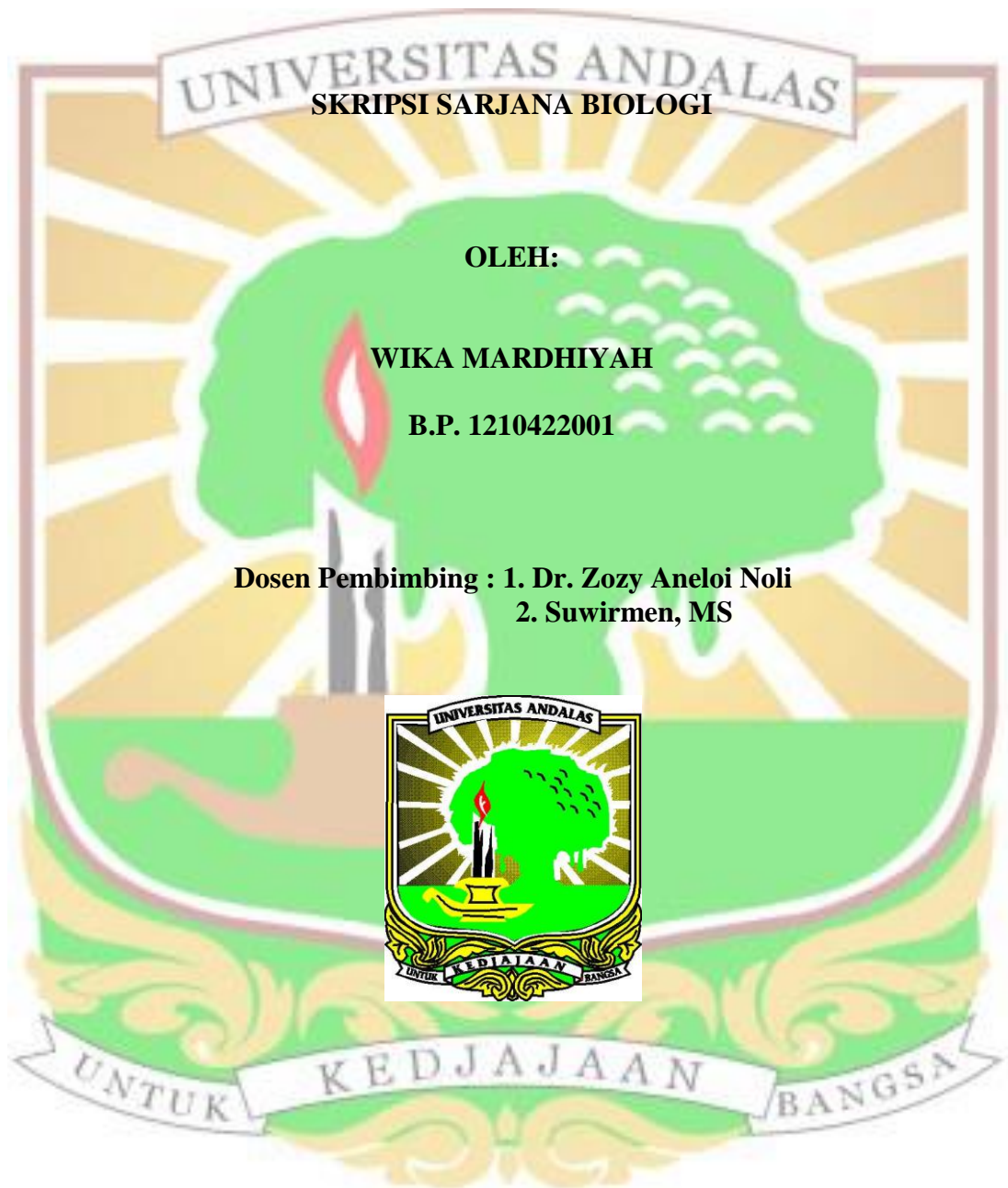


**LAJU FOTOSINTESIS TUMBUHAN ASING INVASIF
(*Mikania micrantha* Kunt., *Ageratum conyzoides* Linn.) DAN NONINVASIF
(*Zinnia elegans* Jacq.) PADA BEBERAPA INTENSITAS CAHAYA**



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ABSTRAK

Penelitian tentang laju fotosintesis tumbuhan asing invasif (*M. micrantha*, *A. conyzoides*) dan noninvasif (*Z. elegans*) pada beberapa intensitas cahaya telah dilakukan pada bulan Mei sampai dengan Juli 2016 di Rumah Kaca dan Laboratorium Riset Fisiologi Tumbuhan, Jurusan Biologi, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Andalas, Padang. Penelitian ini bertujuan untuk mengetahui laju fotosintesis tumbuhan asing invasif (*M. micrantha*, *A. conyzoides*) dan noninvasif (*Z. elegans*) pada beberapa intensitas cahaya. Penelitian ini menggunakan metoda survey dengan alat *Portable Photosynthesis System Ciras-1*. Hasil penelitian menunjukkan bahwa laju fotosintesis tumbuhan asing invasif (*M. micrantha* dan *A. conyzoides*) lebih tinggi dibandingkan tumbuhan noninvasif (*Z. elegans*) pada beberapa intensitas cahaya meskipun nilai konduktansi stomata, *intercellular CO₂ concentration* dan kadar klorofil (khususnya pada *M. micrantha*) lebih rendah.

Kata Kunci : Laju fotosintesis, Invasif, Noninvasif, Konduktansi Stomata, *Intercellular CO₂ concentration*, Klorofil, Intensitas cahaya



ABSTRACT

The research about photosynthetic rates of invasive alien plants (*M. micrantha*, *A. conyzoides*) and noninvasive plant (*Z. elegans*) on some light intensities has been conducted from May to July 2016 in green house and Plant Physiology Laboratory, Biology Department, Mathematics and Natural Science Faculty, Andalas university, Padang. The research aims to find out photosynthetic rates of invasive alien plants (*M. micrantha*, *A. conyzoides*) and noninvasive plant (*Z. elegans*) on some light intensities. The research used survey method with *Portable Photosynthesis System Ciras-1*. The result showed that photosynthetic rates of invasive alien plants (*M. micrantha* dan *A. conyzoides*) were higher than noninvasive plant (*Z. elegans*) on some light intensities although its stomatal conductances, *intercellular CO₂ concentrations* and chlorophyll levels (specially on *M. micrantha*) were lower.

Key words : Photosynthetic rate, Invasive, Noninvasive, Stomatal conductance, *Intercellular CO₂ concentration*, Chlorophyll, Light intensity

