

## ABSTRAK

**David Napitupulu.** Studi Keanekaragaman Jamur Makroskopis di Taman Hutan Raya Kabupaten Karo Sebagai Buku Ajar Biologi Berbasis Lokal. *Tesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2014.*

Penelitian ini bertujuan untuk mengetahui keanekaragaman jamur makroskopis di Taman Hutan Raya Kabupaten Karo dan mengembangkan buku ajar biologi SMA berbasis lingkungan lokal. Penelitian ini dilakukan di Taman Hutan Raya Bukit Barisan Kabupaten Karo. Pengkoleksian jamur makroskopis dilakukan pada 2 stasiun berdasarkan kondisi curah hujan dan lokasi pertumbuhan jamur. Jamur makroskopis yang ditemukan di Taman Hutan Raya Kabupaten Karo terdiri dari 76 spesies dan 51 genus. Beberapa genus diantaranya adalah *Albatrellus*, *Aleuria*, *Amanita*, *Auriscalpium*, *Camarophyllus*, *Cantharellus*, *Clavulina*, *Collybia*, *Coltricia*, *Coprinus*, *Crepidotus*, *Dacrymyces*, *Daldinia*, *Flammulina*, *Fomitopsis*, *Ganoderma*, *Gomphidius*, *Hygrocybe*, *Laccaria*, *Lacrymaria*, *Lactarius*. Indeks keanekaragaman jamur makroskopis pada stasiun 1 sebesar 2.22165 sedangkan indeks keanekaragaman jamur makroskopis pada stasiun 2 sebesar 1.68582 (kategori sedang). Produk penelitian yang dihasilkan berupa jamur makroskopis dan buku ajar biologi berbasis lokal. Analisis buku ajar biologi melalui 2 dosen ahli sebesar 65% (kelayakan isi), 78% (kelayakan penyajian), 68% (kelayakan kebahasaan); sedangkan penilaian melalui 6 orang guru biologi sma swasta Immanuel Kabanjahe sebesar 87% (kelayakan isi), 82% (kelayakan penyajian), 89% (kelayakan kebahasaan). Sebanyak 30 orang siswa SMA swasta Immanuel Kabanjahe juga dilibatkan untuk validasi buku ajar biologi dimana hasil yang diperoleh cukup baik dan membantu mereka semakin mengenal jamur lebih dekat. Hasil validasi buku ajar biologi bagi siswa memberi pengaruh positif dan informasi baru tentang jamur karena mereka belum pernah membaca buku seperti buku ajar biologi tersebut.

Kata Kunci : Keanekaragaman Jamur Makroskopis, Buku Ajar Biologi Untuk SMA Berbasis Lingkungan Lokal

## ABSTRACT

**David Napitupulu.** Study of Mushroom's Diversity in Taman Hutan Raya Kabupaten Karo as Biology Textbook Based on Local Environment. *Thesis. Medan: Graduate Program of The State University of Medan, 2014.*

This research was aimed to know the diversity of mushrooms in Taman Hutan Raya Kabupaten Karo and to develop the Biology textbook of Senior High School based on local environment. This research was conducted in Taman Hutan Raya Bukit Barisan Kabupaten Karo. The Collecting process of the mushrooms was done at two stations based on the raindrop condition and where the mushroom were growth. 76 species and 51 genus, some of the genus were *Albatrellus*, *Aleuria*, *Amanita*, *Auriscalpium*, *Camarophyllus*, *Cantharellus*, *Clavulina*, *Collybia*, *Coltricia*, *Coprinus*, *Crepidotus*, *Dacrymyces*, *Daldinia*, *Flammulina*, *Fomitopsis*, *Ganoderma*, *Gomphidius*, *Hygrocybe*, *Laccaria*, *Lacrymaria*, *Lactarius*. The diversity index of the mushrooms at station 1 were about 2.22165; whereas the diversity index of the mushrooms at station 2 were about 1.68582 (medium category). The research products which were gained were mushrooms and the local-based biology textbook. The percentage of the analysis of the biology textbook which were obtained from two expert lecturers was about 65% (feasibility of content), 78% (feasibility of presentation), 68% (feasibility of linguistic); while the evaluation of which was done by six teachers of SMA Swasta Immanuel Kabanjahe was about 87% (feasibility of content), 82% (feasibility of presentation), 89% (feasibility of linguistic). 30 students of the school were also involved to evaluate the textbook. The result was good and can be usefull for them, that is know mushrooms more. The evaluation result of the biology textbook for student was to give positive influence and new information about mushrooms because they had never read any books like the biology textbook.

Keywords: Mushroom's Diversity, Biology textbook for Senior High School Based on Local Environment