

## ABSTRAK

**Fitri Nurmalasari, NIM 4171141020 (2017). Pengembangan Buku Saku Keanekaragaman Jamur Makroskopis di Perkebunan Sawit Berbasis Riset sebagai Media Pembelajaran Alternatif Biologi untuk SMA.**

Kurangnya pemahaman siswa terhadap materi jamur disebabkan karena kurangnya literasi siswa mengenai materi jamur seperti memahami ciri-ciri jamur serta membedakan jenis jamur yang beracun dan tidak beracun. Kesulitan siswa dalam mengerjakan soal yang berkaitan dengan materi jamur (*Fungi*). Karena dalam pembelajaran biologi siswa selalu kesulitan untuk mengingat istilah asing dan bahasa Latin, yang sulit untuk dihafal contohnya saja dalam materi jamur. Penelitian ini bertujuan untuk: 1) Mengembangkan suatu buku saku berbasis riset dalam mata pelajaran biologi 2) Meningkatkan pengetahuan siswa dalam materi jamur. Metode yang digunakan dalam penelitian ini adalah Penelitian dan Pengembangan (*Research and Development*) yang dimodifikasi. Tahapannya dituangkan dalam model 4D yang dimodifikasi sampai tahap pengembangan, sehingga model 4-D terdiri atas tiga tahap, yakni: pendefinisian, perancangan, dan pengembangan. Validasi dilakukan oleh ahli materi, ahli pembelajaran dan ahli desain, sedangkan uji coba dilakukan terhadap siswa IPA di SMAN 1 Bahorok yang terdiri: perorangan (5), (9) kelompok kecil dan (30) kelompok terbatas serta guru mata pelajaran biologi pada bulan April 2022. Aspek penilaian buku saku meliputi kelayakan isi, bahasa, penyajian dan kegrafikan. Data diperoleh melalui proses validasi dan uji coba dengan menggunakan instrument angket penilaian. Berdasarkan analisis data terhadap angket validasi buku saku keanekaragaman jamur di perkebunan sawit berbasis riset oleh ahli materi, ahli pembelajaran dan ahli desain termasuk dalam kategori sangat praktis. Hasil *Pre-test* dan *Post-test* pada kelas kontrol dan kelas eksperimen masuk dalam kategori sedang.

Kata Kunci : ***Buku Saku, Keanekaragaman Jamur Makroskopis, Berbasis Riset, Perkebunan sawit***

## ABSTRACT

**Fitri Nurmalasari, NIM 4171141020 (2017). Development of a Pocket Book on Macroscopic Fungi Diversity in Research-Based Oil Palm Plantations as an Alternative Biology Learning Media for Senior High Schools.**

The lack of students' understanding of mushroom material is caused by a lack of student literacy regarding mushroom material such as understanding the characteristics of mushrooms and distinguishing types of mushrooms that are poisonous and non-toxic. Students' difficulties in working on questions related to mushroom material (*Fungi*). Because in learning biology students always have difficulty remembering foreign terms and Latin, which are difficult to memorize, for example, in mushroom material. This study aims to: 1) Develop a pocket book based on research in biology 2) Increase students' knowledge in the subject of mushrooms. The method used in this study is a modified Research and Development. The stages are outlined in the 4D model which is modified to the development stage, so that the 4-D model consists of three stages, namely: defining, designing, and developing. Validation was carried out by material experts, learning experts and design experts, while trials were carried out on science students at SMAN 1 Bahorok consisting of: individuals (5), 9 small groups and 30 limited groups and biology teachers in April 2022. Assessment aspects pocket book includes the feasibility of content, language, presentation and graphics. The data was obtained through a process of validation and testing using an assessment questionnaire instrument. Based on data analysis of the research-based pocket book validation questionnaire on mushroom diversity in oil palm plantations by material experts, learning experts and design experts, it is included in the very practical category. The results of the pre-test and post-test in the control class and the experimental class were in the moderate category.

**Keywords:** Pocket Book, Diversity of Macroscopic Fungi, Research, Oil Palm plantations