

## **ABSTRACT**

### **IMPROVING STUDENT LEARNING OUTCOMES IN BIOLOGY THROUGH PROBLEM BASED LEARNING MODEL IN GRADE 10 OF SENIOR HIGH SCHOOL1 SUNGKAI BARAT**

**by  
RENI FEBRIYANTI**

The aim of this study was to describe: (1) biology learning plan design focusing on fungi materials using problem based learning model, (2) process of biology learning using problem based learning model, (3) assessment instruments, and (4) improvement of learning outcomes in biology. The research method of this study was action research with three phase cycle. *PBL* cycle I was based on the test results daily test of biology, *PBL* cycle II was based on the results of the test cycle I, and *PBL* cycle III based was on the results of the test cycle II. This study was conducted in senior high school 1 Sungkai Barat. Data were collected by using observation and tests, and the qualitative descriptive. Results of this study are: (1) learning design with syntax a) student orientation based on problem, b) student organization based on learning, c) individual and group investigating, d) serving and developing the result e) teacher analysis and evaluation process of *PBL*, (2) the learning process using *PBL* learning model increase the activity of learners in the learning, (3) the assessment instrument using a written test about the description with a validity value of 0.728, a reliability value of 0.908, average difficulty level of items, and a well acceptable discrimination power of items, and (4) learning outcomes of grade 10 students reached a minimum completeness criteria of 90% for cognitive domain and 95 for affective domain, but the indicator of responsibility wasn't reached up to 80%.

Keywords: learning outcomes, biology, problem based learning model