

## ABSTRAK

Mufidah, Ummi. 2022. *Hubungan Efikasi Diri dan Penalaran Ilmiah Terhadap Hasil Belajar Biologi pada Siswa Kelas X MAN Tanjungpinang*. Skripsi. Tanjungpinang: Program Studi Pendidikan Biologi, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Bony Irawan, S.Pd., M.Pd. Pembimbing II: Assist. Prof. Erda Muhartati. S.Si., M.Si.

### **Kata Kunci: Efikasi Diri, Hasil Belajar, Hubungan, Penalaran Ilmiah**

Penelitian ini bertujuan untuk melihat hubungan antara efikasi diri terhadap hasil belajar, penalaran ilmiah terhadap hasil belajar dan efikasi diri dan penalaran ilmiah terhadap hasil belajar biologi pada siswa kelas X MAN Tanjungpinang. Penelitian ini merupakan penelitian korelasional dengan pendekatan kuantitatif. Sampel dalam penelitian ini berjumlah 118 siswa yang diambil dengan menggunakan teknik *total sampling*. Instrumen penelitian yang digunakan berupa lembar angket efikasi diri dan uji tes soal penalaran ilmiah serta peneliti menggunakan dokumentasi rata-rata nilai UTS dan UAS siswa. Untuk mengukur hubungan efikasi diri dan penalaran ilmiah terhadap hasil belajar biologi pada siswa kelas X MAN Tanjungpinang, data dianalisis menggunakan analisis deskriptif persentase uji *pearson product moment* (Tunggal) dan uji korelasi ganda (*multiple correlation*). Indikator efikasi diri yang diteliti yaitu tingkat (*level/magnitude*), luas bidang tingkah laku (*generality*), kekuatan (*strength*). Penalaran ilmiah yaitu, inklusi kelas (*class inclusion*), seriasi (*serial ordering*), menerapkan teori (*theoretical reasoning*), menganalisis hubungan fungsional (*functionality reasoning*), pola penalaran (*correlation reasoning*). Diperoleh hasil penelitian Terdapat hubungan positif dan signifikan antara efikasi diri terhadap hasil belajar biologi siswa kelas X MAN Tanjungpinang. Terdapat hubungan positif dan signifikan antara penalaran ilmiah terhadap hasil belajar. Terdapat hubungan positif dan signifikan antara efikasi diri terhadap hasil belajar. Terdapat hubungan positif dan signifikan antara efikasi diri dan penalaran ilmiah secara bersama-sama terhadap hasil belajar biologi pada siswa kelas X MAN Tanjungpinang. Adapun kategori hubungan kedua variabel adalah sangat kuat, dengan nilai koefisien determinasi antara efikasi diri terhadap hasil belajar sebesar 70,7%, koefisien determinasi antara penalaran ilmiah terhadap hasil belajar sebesar 73,3%, dan koefisien determinasi antara efikasi diri dan penalaran ilmiah secara bersama-sama terhadap hasil belajar didapatkan koefisien determinasi sebesar 78,0 %.

## ABSTRACT

Mufidah, Umami. 2022. The Relationship between Self-Efficacy and Scientific Reasoning on Biology Learning Outcomes in Class X Students at MAN Tanjungpinang. Thesis. Tanjungpinang: Biology Education Study Program, Faculty of Teacher Training and Education, Raja Ali Haji Maritime University. Supervisor I: Assist. Prof. Bony Irawan, S.Pd., M.Pd. Advisor II: Assist. Prof. Erda Muhartati. S.Si., M.Si.

**Keywords: Learning Outcomes, Relationships, Scientific Reasoning, Self Efficacy**

This study aims to look at the relationship between self-efficacy on learning outcomes, scientific reasoning on learning outcomes and self-efficacy and scientific reasoning on biology learning outcomes in class X MAN Tanjungpinang. This research is a correlational study with a quantitative approach. The sample in this study amounted to 118 students who were taken using the total sampling technique. The research instruments used were self-efficacy questionnaires and scientific reasoning questions and the researchers used documentation of the average UTS and UAS scores of students. To measure the relationship between self-efficacy and scientific reasoning on biology learning outcomes in class X students of Tanjungpinang MAN, data were analyzed using descriptive analysis of the percentage of Pearson product moment test (single) and multiple correlation tests. The self-efficacy indicators studied were level/magnitude, generality and strength. Scientific reasoning, namely, class inclusion, serial ordering, applying theory (theoretical reasoning), analyzing functional relationships (functionality reasoning), patterns of reasoning (correlation reasoning). Obtained research results There is a positive and significant relationship between self-efficacy on biology learning outcomes of class X MAN Tanjungpinang. There is a positive and significant relationship between scientific reasoning and learning outcomes. There is a positive and significant relationship between self-efficacy and learning outcomes. There is a positive and significant relationship between self-efficacy and scientific reasoning together with biology learning outcomes in class X MAN Tanjungpinang. The category of relationship between the two variables is very strong, with a coefficient of determination between self-efficacy on learning outcomes of 70.7%, a coefficient of determination between scientific reasoning on learning outcomes of 73.3%, and a coefficient of determination between self-efficacy and scientific reasoning together -Similar to learning outcomes obtained a coefficient of determination of 78.0%..