

## ABSTRAK

### **Desi Hayati Putri. (2015). Pengaruh Model Pembelajaran Terhadap Hasil Belajar Biologi, Sikap Ilmiah, dan Keterampilan Proses Sains Siswa di SMA Negeri 1 Simpang Empat Asahan.**

Penelitian ini bertujuan untuk mengetahui: (1) pengaruh model pembelajaran inkuiri terbimbing, investigasi kelompok, dan tradisional terhadap hasil belajar biologi siswa pada materi Kehidupan Sel; (2) pengaruh model pembelajaran inkuiri terbimbing, investigasi kelompok, dan tradisional terhadap sikap ilmiah siswa; (3) pengaruh model pembelajaran inkuiri terbimbing, investigasi kelompok, dan tradisional terhadap keterampilan proses sains siswa. Penelitian ini dilaksanakan di SMA Negeri 1 Simpang Empat Asahan, pada kelas XI IPA semester ganjil tahun pelajaran 2014/2015. Populasi penelitian ini seluruh siswa kelas XI IPA SMA Negeri 1 Simpang Empat Asahan yang berjumlah 90 siswa yang terdiri dari tiga kelas paralel. Sampel yang diambil sebagai kelompok eksperimen adalah: (1) kelas XI IPA<sub>1</sub> menggunakan model pembelajaran inkuiri terbimbing; (2) kelas XI IPA<sub>2</sub> menggunakan model pembelajaran investigasi kelompok; dan kelas XI IPA<sub>3</sub> sebagai kelas kontrol dengan menggunakan model pembelajaran tradisional. Pengambilan sampel dengan menggunakan teknik *total sampling*. Instrumen penelitian berupa tes hasil belajar, angket sikap ilmiah, dan tes keterampilan proses sains siswa. Metode penelitian ini termasuk kuasi ekperimental dengan teknik analisis data Analisis Kovarian (Anacova) dan Analisis Varian (Anava) satu jalur dilanjutkan dengan uji lanjut Tukey. Teknik analisis yang digunakan dengan bantuan Microsoft excel dan SPSS 19.0. Hasil penelitian dan pengujian menunjukkan: (1)  $H_{01}$  ditolak dengan  $F_{hitung} = 267,73$  taraf signifikansi 0,000; (2)  $H_{02}$  ditolak dengan  $F_{hitung} = 11,52$  taraf signifikansi 0,000; dan (3)  $H_{03}$  ditolak dengan  $F_{hitung} = 20,84$  taraf signifikansi 0,000. Kesimpulan penelitian ini adalah: (1) Terdapat pengaruh model pembelajaran terhadap hasil belajar biologi siswa pada materi Sel di kelas XI IPA SMA Negeri 1 Simpang Empat Kabupaten Asahan; (2) Terdapat pengaruh model pembelajaran terhadap sikap ilmiah siswa pada materi Sel di kelas XI IPA SMA Negeri 1 Simpang Empat Kabupaten Asahan; (3) Terdapat pengaruh model pembelajaran terhadap keterampilan proses sains siswa pada materi Sel di kelas XI IPA SMA Negeri 1 Simpang Empat Kabupaten Asahan.

**Kata Kunci:** Hasil Belajar Biologi, Sikap Ilmiah, Keterampilan Proses Sains, Inkuiri Terbimbing, Investigasi Kelompok

## ABSTRACT

**Desi Hayati Putri. (2015). The Effect of Learning Models on Biology Learning Outcomes, Scientific Attitudes, and Scientific Process Skill in SMA Negeri 1 Simpang Empat Asahan.**

This research revealed to know: (1) the effect of guided inquiry, group investigation, and traditional learning models to student's biology learning outcomes on Cell matters; (2) the effect of guided inquiry, group investigation, and traditional learning models to student's scientific attitude; (3) the effect of guided inquiry, group investigation, and traditional learning models to student's scientific process skill. Research was in SMA Negeri 1 Simpang Empat Asahan at grade XI science program first semester 2014/2015 academic year. The research population was totally of grade XI science program in SMA Negeri 1 Simpang Empat Asahan that consists of 90 students divided in three class parallels. Sample taken as experimental class was: (1) class XI IPA<sub>1</sub> with guided inquiry learning model; (2) class XI IPA<sub>2</sub> with group investigation learning model; and (3) class XI IPA<sub>3</sub> as control group with traditional learning model. Sampling technique was total sampling technique. Learning outcome test, scientific attitude questionnaire, and student learning process skill test used as the instrument of this research. The research method was included as quasi experimental research with Analysis Covariant (Anacova) and Analysis Variant (Anava) One Way data analysis technique continued with Tukey Test. Analysis technique helped with Microsoft Excel and SPSS 19.0. Results of research and testing showed: (1) Ho<sub>1</sub> was rejected with a F = 267,73 significant level 0,000; (2) Ho<sub>2</sub> was rejected with a F = 11,52 significant level 0,000; (3) Ho<sub>3</sub> was rejected with F = 20,84 significant level 0,000. The summary of this study are: (1) There is a significant effect of student learning outcomes were learned with Guided Inquiry, Group Investigation, and Traditional learning models; (2) There is a significant effect of student scientific attitude were learned with Guided Inquiry, Group Investigation, and Traditional learning models; and (3) There is a significant effect of student scientific process skill were learned with Guided Inquiry, Group Investigation, and Traditional learning models.

Keyword: Learning Outcomes, Scientific Attitude, Scientific Process Skill, Guided Inquiry, Group Investigation.