

ABSTRACT

Diana Rahmawati. 2023. Improving Students' Analytical Ability on Immune System Material through the Implementation of Multimedia Development with Articulate Storyline as a TPACK Component. Supervised by Dr. H. Uus Toharudin, M.Pd., Dr. drh. Nia Nurdiani, M.Si.

The difficulty of students developing analytical skills in mastering the subject matter of the Immune System in the context of Biology lessons. This study aims to determine the effect of learning by using interactive multimedia developed with the Articulate Storyline application as a TPACK component on students' analytical abilities in the Immune System material. This study used a pre-experimental method with a one group pretest-posttest design. The sample in this study were students of Class XI MIPA 4 at SMA Pasundan 1 Bandung. The results showed that the students' analytical skills had increased, the N-Gain category obtained was dominated by the high category ($0.70 \leq \text{N-Gain} \leq 1.00$) for 27 students (90%). It can be concluded that students' analytical skills have increased after learning to use interactive multimedia developed with the Articulate Storyline application as a TPACK component in immune system material. Based on the results of this study, it is recommended for future researchers to prepare learning media carefully and master the TPACK framework so that learning can run properly.

Keywords : Analytical Ability, Interactive Multimedia, TPACK