

## ABSTRAK

**Nadia Suranta Sembiring, NIM 4183141034 (2018). Pengembangan Media Pembelajaran Berbasis Audiovisual materi sistem kekebalan tubuh di SMA Negeri 12 Medan TP 2021/2022.**

Penelitian ini bertujuan untuk mengetahui hasil pengembangan media pembelajaran berbasis audiovisual pada materi sistem kekebalan tubuh di kelas XI SMA Negeri 12 Medan tahun pembelajaran 2021/2022. Jenis penelitian yang digunakan adalah penelitian dan pengembangan. Subjek dalam penelitian ini adalah Ahli Materi, Ahli Media Pembelajaran, Guru Bidang Studi Biologi dan Siswa kelas XI MIA SMA Negeri 12 Medan. Pengumpulan data dilakukan dengan instrumen berupa lembar penilaian validasi ahli, penilaian guru dan respon siswa. Pengembangan media pembelajaran dilakukan dengan menggunakan model pengembangan intruksional 4D (Four-d) yaitu melalui tahap *Define, Design, Development, dan Dissiminate*. Karena pada model ini setiap tahap dilakukan revisi hingga didapatkan produk media pembelajaran audiovisual yang baik. Hasil penelitian menunjukkan bahwa penilaian ahli materi diperoleh persentase 100% (Sangat Layak), penilaian ahli media pembelajaran diperoleh persentase 82,81% (Layak). Penilaian guru bidang studi diperoleh persentase 100% (Sangat Baik), sedangkan hasil tanggapan/respon dari siswa diperoleh persentase 81,66% (Sangat Baik). Hasil dari uji pemahaman media pembelajaran kepada peserta didik berdasarkan nilai pretest diperoleh rata-rata 49,75 (Rendah), sedangkan hasil posttest diperoleh rata-rata 76,96 (Tinggi). Media pembelajaran audiovisual materi sistem kekebalan tubuh memperoleh kriteria penilaian Sangat Layak dan telah memenuhi persyaratan dalam proses pembelajaran biologi.

**Kata kunci :** Penelitian dan Pengembangan, media pembelajaran, model 4D (Four D).



## ***ABSTRACT***

**Nadia Suranta Sembiring, NIM 4183141034 (2018). Development of Audiovisual-Based Learning Media for immune system materials at SMA Negeri 12 Medan TP 2021/2022.**

This study aims to determine the results of developing audiovisual-based learning media on immune system material in class XI of SMA Negeri 12 Medan in the 2021/2022 academic year. The type of research used is research and development. The subjects in this study were Material Experts, Learning Media Experts, Biology Study Teachers and Class XI MIA students at SMA Negeri 12 Medan. Data collection was carried out with instruments in the form of expert validation assessment sheets, teacher assessments and student responses. The development of learning media was carried out using the 4D (Four-d) instructional development model, namely through the Define, Design, Development, and Dissiminate stages. Because in this model each stage is revised to get a good audiovisual learning media product. The results showed that the assessment of material experts obtained a percentage of 100% (Very Eligible), the assessment of learning media experts obtained a percentage of 82,81% (Fair). The teacher's assessment in the field of study obtained a percentage of 100% (Very Good), while the results of the responses / responses from students obtained a percentage of 81,66% (Very Good). The results of the test of understanding learning media to students based on the pretest score obtained an average of 49,75 (Low), while the post-test results obtained an average of 76,96 (High). Audiovisual learning media material for the immune system obtained the Very Eligible assessment criteria and had met the requirements in the biology learning process.

Keywords: Research and Development, learning media, 4D model (Four D).

