

ABSTRAK

Desy Suryanthi Tamba, NIM 4183341011 (2022). Pengembangan Buku Suplemen Pengenalan PCR (*Polymerase Chain Reaction*) pada Matakuliah Biomolekuler di Universitas Negeri Medan.

Penelitian ini bertujuan untuk menghasilkan produk buku suplemen tentang pengenalan PCR yang layak digunakan dalam matakuliah biomolekuler. Model pengembangan yang digunakan dalam penelitian ini adalah model pengembangan Thiagarajan (4D) yang terdiri dari tahap pendefinisian, perancangan, pengembangan dan penyebaran yang dibatasi sampai pada tahap ketiga yaitu pengembangan. Buku suplemen yang dikembangkan divalidasi berdasarkan dua kriteria yaitu materi/isi dan media buku, respon dosen pengampu matakuliah dan respon mahasiswa. Hasil validasi produk oleh ahli materi dan ahli media memiliki nilai rata-rata sebesar 92,5 % dan 86,9 % yang termasuk kategori “sangat baik” dan “layak”, respon dosen pengampu yaitu sebesar 85,2% kategori “sangat baik” dan uji kelompok perorangan, kelompok kecil, dan kelompok terbatas secara berurutan dengan nilai rata-rata 88,8%, 85,4%, dan 95,3% dengan kategori “sangat baik” dan “layak”.

Kata kunci: Buku suplemen, *Polymerase Chain Reaction*, model pengembangan

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ABSTRACT

Desy Suryanthi Tamba, NIM 4183341011 (2022). Development of a Supplement to the Introduction of PCR (Polymerase Chain Reaction) in the Biomolecular Course at the State University of Medan.

This study aims to produce a supplementary book product on the introduction of PCR that is suitable for use in biomolecular courses. The development model used in this research is the Thiagarajan (4D) development model which consists of the definition, design, development and deployment stages which are limited to the third stage, namely development. The supplement book that was developed was validated based on two criteria, namely the material/content and media of the book, the response of the lecturer in charge of the course and the response of the student. The results of product validation by material experts and media experts have an average value of 92.5% and 86.9% which are included in the "very good" and "decent" categories, the response from the lecturers is 85.2% in the "very good" category. and test individual groups, small groups, and limited groups respectively with an average value of 88.8%, 85.4%, and 95.3% with the categories "very good" and "decent".

Keywords: Supplement book, Polymerase Chain Reaction, 4D development model

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