

ABSTRAK**PENGEMBANGAN BUKU AJAR BIOLOGI BERBASIS *MIND MAPPING* DILENGKAPI KODE QR BERISI *LINK* KUIS PADA MATERI EVOLUSI UNTUK SISWA SMA KELAS XII**

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Penggunaan buku ajar biologi yang inovatif belum banyak digunakan oleh guru dalam proses pembelajaran biologi sehingga membuat siswa mengalami kesulitan dalam memahami konsep materi biologi yang sangat luas cakupannya. Dengan begitu, minat membaca siswa terhadap buku ajar biologi juga menurun seiring perkembangan teknologi yang semakin meningkat. Penelitian ini bertujuan untuk mengembangkan buku ajar biologi berbasis *mind mapping* yang dilengkapi kode QR berisi kuis yang dapat membantu siswa kelas XII dalam memahami materi evolusi. Informasi kebutuhan buku ajar biologi berbasis *mind mapping* pada materi evolusi diperoleh melalui kegiatan survei kebutuhan pada 5 sekolah di Yogyakarta dengan melakukan wawancara bersama guru Biologi SMA kelas XII.

Pengembangan produk buku ajar Biologi berbasis *mind mapping* pada materi evolusi ini menggunakan langkah-langkah pengembangan menurut Sugiyono yang dibatasi sampai pada 5 langkah pengembangan. Selanjutnya, produk yang telah dikembangkan divalidasi kelayakannya oleh para ahli. Validasi dilakukan oleh 2 dosen sebagai ahli media dan ahli materi serta 2 guru Biologi SMA kelas XII. Data yang diperoleh dari hasil validasi dianalisis secara kualitatif dan kuantitatif.

Hasil validasi secara keseluruhan menunjukkan angka 3,1 dengan kategori Baik, yang menyimpulkan bahwa kualitas buku ajar biologi berbasis *mind mapping* dilengkapi kode QR berisi kuis pada materi evolusi baik untuk diujicobakan dalam proses pembelajaran biologi.

Kata Kunci: RnD, Buku Ajar, *Mind Mapping*, Evolusi, Kode QR

**DEVELOPMENT OF BIOLOGY TEXTBOOK BASED ON MIND MAPPING
EQUIPPED WITH QR CODES CONTAINING QUIZZES LINK ON
EVOLUTIONARY MATERIAL FOR XII GRADE SENIOR HIGH SCHOOL**

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ABSTRACT

The use of innovative biology textbook has not been widely used by teachers in the biology learning process, making it difficult for students to understand the concept of biological material which is very broad in scope. That way, students interest in reading biology textbooks also decreases as technology develops. This research aims to develop the biology textbook based on mind mapping equipped with QR code containing a quizzes that can help students class XII to understand evolutionary material. Information needs biology textbook based on mind mapping on evolutionary material were obtained through a needs survey activity at 5 schools in Yogyakarta by conducting interviews with biology teachers in class XII.

The development of biology textbook based on mind mapping on evolutionary material uses development steps according to Sugiyono which is limited to 5 development steps. Furthermore, the products that have been developed will be tested for eligibility by experts. The validation was carried out by 2 lectures as media expert and material expert as well as 2 high school biology teachers in class XII by filling out the validation sheet. Data obtained from the validation results were analyzed qualitatively and quantitatively.

The validation results showed an average of 3,1 with the category “Good” with the conclusion that the quality of biology textbook based on mind mapping equipped with QR code containing quizzes on evolutionary material both for being tested in process of learning biology.

Keywords: Researc and Development, Textbook, Mind Mapping, Evolusinary, QR Code.