

## ABSTRAK

NDARU WIDIA, 2025. **Pengembangan Lembar Kerja Peserta Didik Elektronik (E-LKPD) Berbasis *Liveworksheet* Pada Materi Sistem Ekskresi Manusia.** Jurusan Pendidikan Biologi, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Siliwangi.

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Lembar Kerja Peserta Didik Elektronik (E-LKPD) merupakan salah satu alternatif yang dapat digunakan dalam proses pembelajaran yang didukung oleh kemajuan teknologi. E-LKPD merupakan bagian dari perangkat pembelajaran yang baik digunakan untuk meningkatkan aktivitas peserta didik dalam proses belajar mengajar. Penelitian ini bertujuan untuk mengembangkan perangkat pembelajaran berupa E-LKPD berbasis *liveworksheet* pada materi system ekskresi jenjang SMA. Penelitian dan Pengembangan ini menggunakan model ADDIE yang terdiri dari lima tahapan, yaitu *analyze, design, develop, implementation, dan evaluation*. Penelitian ini dilakukan sampai tahapan develop sehingga menghasilkan produk perangkat pembelajaran berupa E-LKPD pada materi system ekskresi manusia untuk jenjang SMA dengan mendapatkan persentase hasil validasi ahli materi sebesar 77,3% yang termasuk kategori “layak”, persentase hasil validasi ahli media sebesar 78,2% yang termasuk kategori “layak”, hasil penilaian praktisi biologi didapatkan hasil 96,9% yang termasuk kategori “sangat layak”, dan respon pengguna terhadap produk diperoleh persentase 82,4% yang termasuk kategori “sangat layak” pada uji coba perorangan dan didapat persentase sebesar 90,2% yang termasuk kategori “sangat layak” pada uji coba kelompok kecil. Sehingga dapat disimpulkan bahwa produk E-LKPD berbasis *liveworksheet* sebagai perangkat pembelajaran pada materi system ekskresi manusia di SMA adalah sangat layak sebelum dilakukan tahap implementasi untuk digunakan sebagai perangkat pembelajaran.

**Kata kunci :** E-LKPD, *liveworksheet*, sistem ekskresi

## ABSTRACT

NDARU WIDIA, 2025. **Development of Electronic Student Worksheets (E-LKPD) Based on Liveworksheets on Human Excretory System Material.** Department of Biology Education, Faculty of Teacher Training and Education, Siliwangi University.

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Electronic Student Worksheets (E-LKPD) are one of the alternatives that can be used in the learning process supported by technological advances. E-LKPD is part of a good learning tool used to increase student activity in the teaching and learning process. This study aims to develop a learning tool in the form of E-LKPD based on liveworksheets on the excretory system material for high school level. This Research and Development uses the ADDIE model which consists of five stages, namely analyze, design, develop, implementation, and evaluation. This research was conducted until the development stage so that it produced a learning device product in the form of E-LKPD on the human excretion system material for high school level by obtaining a percentage of material expert validation results of 77.3% which is included in the category of "very feasible", the percentage of media expert validation results of 78.2% which is included in the category of "very feasible", the results of the assessment of biology practitioners obtained a result of 96.9% which is included in the category of "very feasible", and user responses to the product obtained a percentage of 82.4% which is included in the category of "very feasible" in individual trials and a percentage of 90.2% which is included in the category of "very feasible" in small group trials. So it can be concluded that the E-LKPD product based on liveworksheets as a learning device on the material of the human excretion system in high school is very feasible before the implementation stage is carried out to be used as a learning device.

**Kata kunci :** E-LKPD, *liveworksheet*, *exretion system*