

REFERENCES

- Amallia, Y. R., & Advinda, L. (2020). *Biology Learning Resource Design Based on Guided Inquiry*. 10(ICoBioSE 2019), 122–129.
- Anderson, W. L., Mitchell, S. M., & Osgood, M. P. (2005). Effects of feedback on student writing. *Journal of Second Language Writing*, 14(2), 91-110.
- Arantika, J., Saputro, S., & Mulyani, S. (2019). Effectiveness of guided inquiry-based module to improve science process skills. *Journal of Physics: Conference Series*, 1157(4), 0–6.
- Azizah, R. N. (2016). Pengembangan Psychomotor Performance Assesment Berbasis Pendekatan Saintifik dalam Kerangka Authentic Assesment pada Praktikum Bakteri Kelas X SMA. *TESIS*. Program Studi Magister Pendidikan Sains, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sebelas Maret Surakarta.
- Bilhartz, T. D., Kjelvik, M. K., & Chavez, A. E. (2017). A review of biology curriculum and assessment for pre-health professional students. *Journal of Microbiology & Biology Education*, 18(3), 1-10.
- Bybee, R. (2013). *The Case For STEM Education: Challenges and Opportunities*. National Science Teachers Association.
- Brown, A. L., & Rutherford, M. (1995). *Collaborative inquiry in science: Group learning improves science inquiry skills*. National Science Teachers Association.
- Darmawan, H., & Nawawi, N. (2020). Pengembangan Media Pembelajaran Interaktif dan Lembar Kerja Siswa pada Materi Virus. *JPBIO (Jurnal Pendidikan Biologi)*, 5(1), 27-36.
- D'Angelo, C. M., & Rutledge, D. N. (2013). The effectiveness of online discussion forums across majors in an undergraduate biology course. *Journal of Microbiology & Biology Education*, 14(2), 211-220.
- Depdiknas. (2008). *Pengembangan Bahan Ajar*. Depdiknas.
- Dewan Guru Besar IPB. (2020). *Peningkatan Produksi, manfaat Sustainability Biodiversitas Tanaman Indonesia* (P. P. I. Press (ed.)).
- Diniaty, A., & Atun, S. (2015). *Using Students' Worksheet of Entrepreneurship-Oriented Small-Scale Chemical Industry to Increase the Entrepreneurial Interest of Students: ISBN : 116–123*.
- Ekantini, A., & Wilujeng, I. (2018). The development of science student worksheet based on education for environmental sustainable development to enhance scientific literacy. *Universal Journal of Educational Research*, 6(6), 1339–1347.
- Erasmus, D. J. (2021). DNA barcoding: A different perspective to introducing undergraduate students to DNA sequence analysis. *Biochemistry and Molecular Biology Education*, 49(3), 416–421.

- Farida, Supriadi, N., & Kurniawati, N. (2019). Developing Student Worksheet Assisted with Geogebra on Derivative Materials. *Journal of Physics: Conference Series*, 1155(1).
- Freeman, S. Eddy, S., McDonough, M., Smith, M., Okoroafor, N., Jordt, H., Wenderoth, P. (2014). Active Learning Increases Student Performance in Science, Engineering, and Mathematics. *PNAS*, 111, 8410-8415.
- Frézal, L., & Leblois, R. (2008). Four years of DNA barcoding: Current advances and prospects. *Infection, Genetics and Evolution*, 8(5), 727–736.
- Ginting, F. A., & Gultom, T. (2021). Development Of Molecular Biology Student Worksheets for Biology Students Medan State University. *Prosiding Sixth Postgraduate Bio Expo 2021*, 220–229.
- Gumanti, T. A. Y. S. (2016). *Metode Penelitian Pendidikan*. Mitra Wacana Media.
- Hebert, P. D. N., Cywinska, A., Ball, S. L., & DeWaard, J. R. (2003). Biological identifications through DNA barcodes. *Proceedings of the Royal Society B: Biological Sciences*, 270(1512), 313–321.
- Herlinda, S., Pujiastuti, Y., Irsan, C., Riyanto, Arsi, Anggraini, E., Karenina, T., Budiarti, L., Rizkie, L., & Octavia, D. M. (2021). *Pengantar Ekologi Serangga*. UNSRI Press.
- Hong, E. and Choi, J. (2014) Development and evaluation of a student workbook for secondary school life science. *Journal of Biological Education*, 48(2), pp. 68-76.
- Inawati, I., Muhammad, M., & Milla, L. (2017). Penggunaan Lembar Kerja Siswa (Lks) Berbasis Inkuiri Terbimbing Untuk Meningkatkan Hasil Belajar Pada Materi Pemanasan Global. *ETAheses.UINSGD*
- Johannesen, M., Kruse, S., & Stender, M. (2016). Selecting age-appropriate content for a biology curriculum: A case study approach. *Journal of Biological Education*, 50(2), 163-173.
- Kesumawati, N., Retta, A., & Sari, N. (2017). *Pengantar statistika penelitian*. Rajawali Pers.
- Manurung, B., Hasairin, A & Daulae, A. (2020a). Molecular analysis of rice green leafhopper, *Nephotettix virescens* (Distant) from Samosir Island-Indonesia using mitochondrial COI gene. *J. ent. Res.*, 44 (2), 183-188.
- Manurung, B., Hasairin, A & Daulae, A. (2020b). Genetic analysis and molecular phylogeny of rice green leafhopper *Nephotettix nigropictus* (Stal) based on the mitochondrial COI DNA gene. *Annals of Biology* 36 (2): 181-185.
- Manurung, B., Hasairin, A & Daulae, A. (2020c). Genetic analysis and molecular phylogeny of zigzag leafhopper *Maiestas dorsalis* (Motschulsky) using mitochondrial COI gene. *IOP Conf.Series: Earth and Environmental Sciences* 457 (2020) 012021.
- Margayu, T., Yelianti, U., & Hamidah, A. (2020). Pengembangan LKPD Berbasis Inkuiri Terbimbing Pokok Bahasan Klasifikasi Mahluk Hidup. *Biodik*, 6(2), 133–144.

- Maryana, N. (2021). *There are 4-5 Million Insects that Have not been Detected in Indonesia, Let's Join as a Taxonomist*. 30 November. <https://ipb.ac.id/news/index/2021/11/ada-4-5-juta-serangga-yang-belum-terdeteksi-di-indonesia-yuk-gabung-jadi-taksonomist/400edf64f6a14c627ec1a6ab539c9216>
- Mulyatiningsih, E. (2014). *Metode Penelitian Terapan Bidang Pendidikan*. Alfabeta.
- PD, T. (2010). *Pengantar penelitian pendidikan bagi pengembangan profesi pendidikan & tenaga kependidikan*. Kencana Prenada media group.
- Prastowo, A. (2012). *Panduan Kreatif Membuat Bahan Ajar Inovatif Menciptakan Metode Pembelajaran yang Menarik dan Menyenangkan*. Diva Press.
- Putra, N. (2015). *RESEARCH & DEVELOPMENT PENELITIAN DAN PENGEMBANGAN: Suatu Pengantar*. Rajawali Pers.
- Rahayu, D. A., & Jannah, M. (2019). *Dna Barcode Hewan Dan Tumbuhan Indonesia*. 9–25.
- Rahayu, Y. S., Pratiwi, R., & Indana, S. (2018). Development of biology student worksheets to facilitate science process skills of student. *IOP Conference Series: Materials Science and Engineering*, 296(1).
- Reyes, J. D., & Ybanez, M. L. (2015). The effectiveness of biology textbooks' covers in enhancing students' motivation and interest. *Education in Medicine Journal*, 7(1), 63-70.
- Rizka, C., Harahap, F., & Edi, S. (2018). *Isolasi & Amplifikasi DNA*. Unimed Press.
- Sánchez-Bayo, F., & Wyckhuys, K. A. G. (2019). Worldwide decline of the entomofauna: A review of its drivers. *Biological Conservation*, 232(January), 8–27.
- Sandika, B., & Fitrihidajati, H. (2018). Improving creative thinking skills and scientific attitude through inquiry-based learning in basic biology lecture toward student of biology education. *JPBI (Jurnal Pendidikan Biologi Indonesia)*, 4(1), 23–28.
- Saptasari, M. (2012). Peningkatan Minat Mahasiswa pada Taksonomi Tumbuhan di Perguruan Tinggi. *Jurnal Pendidikan Dan Pembelajaran*, 19(2), 196–203.
- Saputro, B. (2017). *Manajemen Penelitian Pengembangan (Research & Development) bagi Penyusun Tesis dan Disertasi* (Vol. 53, Issue 9). Aswaja Pressindo.
- Saragih, S. (2015). *Aplikasi SPSS Dalam Statistik Penelitian Pendidikan*. Perdana Publishing.
- Sayuti, I. (2019, November). Development of Inquiry-Based Student Worksheets in Analytical Microbiology Subjects for Bacterial Growth Dynamics in Biology Education Students at Riau University. *In Proceedings of the UR International Conference on Educational Sciences* (pp. 391-396).
- Smith, M. K., & Knight, R. D. (2012). Using the biology concept inventory to assess learning gains in an introductory biology class. *Journal of*

- General Education*, 61(2), 142-162.
- Solihah, A., & Aditya, D. Y. Implementasi Lembar Kerja Mahasiswa Berbasis Inkuiri Terbimbing pada Mata Kuliah Statistika Dasar. *Jurnal Theorems*, 5(2), 103-110.
- Sugiyono. (2015). *Metode Penelitian Pendidikan (Pendekatan Kuantitatif, Kualitatif, dan R&D)*. Alfabeta.
- Sugiyono, D. (2013). *Metode Penelitian Kuantitatif, Kualitatif, dan Tindakan*.
- Trianto. (2014). *Model Pembelajaran Terpadu (Konsep, Strategi, dan Implementasinya dalam Kurikulum Tingkat Satuan Pendidikan)*. PT Bumi Aksara.
- Trivedi, S., Rehman, H., Saggu, S., Panneerselvam, C., & Ghosh, S. K. (2020). Closing Shots: DNA Barcoding and Molecular Phylogeny. In *DNA Barcoding and Molecular Phylogeny*, pp 265-267.
- Trujillo, K., Ramage, A., & Barker, M. K. (2017). Increasing student engagement and developing deep learning skills through flipped classroom instruction. *Journal of Microbiology & Biology Education*, 18(2), 1-5.
- Wahyuningsih, E. S. (2020). *Model Pembelajaran Mastery Learning Upaya Peningkatan Keaktifan dan Hasil Belajar Siswa*. Yogyakarta: Deepublish.
- Wang, Y., Cheng, Q., & Michel, M. (2019). Effects of matching activities, materials, and assessments to target learning objectives on students' knowledge and attitudes: A quantum learning approach. *Journal of Biological Education*, 53(1), 94-102.
- Walker, J. M., & Ericson, D. L. (2012). *DNA barcoding methods and protocols*. Humana Press.
- Yang, L., Chiu, M., & Yan, Z. (2021) The power of teacher feedback in affecting student learning and achievement: insights from students' perspective, *Educational Psychology*, 41:7, 821-824.
- Yuan, H., Wang, T. and Zuo, L. (2017) The effect of revision materials on academic performance in Biology. *Journal of Biology Education*, 51(4), pp. 255-267.
- Zunaidah, F. N., & Amin, M. (2016). Pengembangan Bahan Ajar Matakuliah Bioteknologi Berdasarkan Kebutuhan dan Karakter Mahasiswa. *Jurnal Pendidikan Biologi Indonesia*, 2(1), 19-30.