

## DAFTAR PUSTAKA

- Abdullah, A., Pratama, R., Sauqi, S.D.A., Nurhayati, T. & Sofyan 2023. Identification of Bacterial Communities Related to Handling in Commercial White-leg Shrimp (*Litopenaeus vannamei*) Using Metagenomic Analysis. IOP Conference Series: *Earth and Environmental Science*, 1137(1): 1–12.
- Abidin, D. H. Z., Lavoué, S., A Rahim, M., & Akieb, M. N. A. 2022. Assessing a megadiverse but poorly known community of fishes in a tropical mangrove estuary through *environmental DNA (eDNA) metabarcoding*. *Scientific Reports*. Vol 12(1) : 1-16.
- Adnan, B., Kurniawati, T., Trianto, M. 2024. Keanekaragaman dan Kelimpahan Arthropoda Tanah di Daerah Terrestrial Situ Lengkong Panjalu, Jawa Barat, Indonesia. *Jurnal Biodjati*. Vol 9(1): 66-79.
- Alam, F. B., González-Giraldo, Y., & Forero, D. A. 2022. Bioinformatic analysis of epigenomic studies for major depressive disorder. *Archivos De Neurociencias*, Vol 27(2). <https://doi.org/10.31157/an.v27i2.326>.
- Allen, M., Kwait, R., Vastano, A., Kisurin, A., Z°C, colo, I., Jaffe, B., Angle, J., Maslo, B., L°C, kwood, J. 2023. Sampling Environmental DNA from Trees and Soil to Detect Cryptic Arboreal Mammals. *Scientific Reports: Nature Portfolio*. Vol 13 (180): 1 – 13.
- Apriani, R., Santoso, U., Mulyawan, R., Ellya, H. 2022. Keanekaragaman Makrofauna Tanah pada Beberapa Variasi Vegetasi di lahan Penelitian agroteknologi Universitas Lambung Mangkurat. *Agritrop: jurnal Ilmu-Ilmu Pertanian (Journal of Agricultural Science)*. Vol 20(1): 84-92.
- Arianti, N. D. 2020. Keanekaragaman Jenis Moluska Di Wilayah Mangrove Pesisir Kelurahan Teluk Uma Kabupaten Karimun. *Jurnal Maritim*. Vol 1(2): 80-86.
- Arisandy, D., Triyanti, M. 2018. Keanekaragaman Jenis Vegetasi Strata Semak di Hutan Perlindungan Kawasan Bukit Cogong. *BIOEDUSAINS: Jurnal Pendidikan Biologi dan Sains*. Vol 1(2): 95 – 105. <https://doi.org/10.31539/bioedusains.v1i2.362>.
- Astuti, R., Yufidasari, H., Perdana, A., Putra, I., Ayun, Q., Kusuma, M. 2022. *Mikrobiologi: Konsep Dasar dan Teknik Laboratorium*. Malang: UB Press.
- Aulia, K. T., Indrawati, A., & Safika, S. 2022. Kelimpahan fungi kelas dothideomycetes pada lumba-lumba hidung botol (*tursiops aduncus*). *Acta*

*VETERINARIA Indonesiana*. Vol 10(2): 148-156.  
<https://doi.org/10.29244/avi.10.2.148-156>

- Balestrini, R., Lumini, E., Borriello, R., Bianciotto, V. 2015. Plant-Soil Biota Interactions. *Science Direct: Soil Microbiology, Ecology and Biochemistry*. 4: 311-338.
- Ban, X., SHAO, Z., Sun, J., & Xue, X. 2022. Highly diversified mit<sup>o</sup>C, hondrial genomes provide new evidence for interordinal relationships in the arachnida. *Cladistics*. Vol 38(4): 452-464.  
<https://doi.org/10.1111/cla.12504>.
- Bastida, F. Moreno, J. I. Hernandez, T. Garcia, C. 2006. Microbiological Activity In a Soil 15 Years After its Revegetation. *Soil Biology and Biochemistry* 38: 2503-2507.
- Bates, A. J., Sadler, J., Grundy, D., Lowe, N., Davis, G. E., Baker, D. J., ... & Young, H. A. 2014. Garden and landscape-scale correlates of moths of differing conservation status: significant effects of urbanization and habitat diversity. *PLoS ONE*. Vol 9(1): e86925.  
<https://doi.org/10.1371/journal.pone.0086925>.
- Batu, H., Talakua, S., Siregar, A., Osok, R. 2019. Status Kesuburan Tanah Berdasarkan Aspek Kimia dan Fisik Tanah di DAS Wai Ela, Negeri Lima, Kabupaten Maluku Tengah, Provinsi Maluku. *Jurnal Budidaya Pertanian*, Vol 15(1): 1 – 12. <https://doi.org/10.30598/jbdp.2019.15.1.1>.
- Bender, S., Wagg, C., & Heijden, M. G. A. v. d. 2016. An underground revolution: biodiversity and soil ecological engineering for agricultural sustainability. *Trends in Ecology & Evolution*, 31(6), 440-452.  
<https://doi.org/10.1016/j.tree.2016.02.016>
- Bini, D. Santos, C. A. Carmo, K. B. Kishino, N. Andrade, G. Zangaro, W. Nogueira, M. A. 2013. Effects of Land Use on Soil Organic Carbon and Microbial Processes Associated with Soil Health in Southern Brazil. *European Journal of Soil Biology* 55: 117-123.
- Bolyen, E., Rideout, J.R., Dillon, M.R. et al. 2018. QIIME 2: Reproducible, interactive, scalable, and extensible microbiome data science. *PeerJ Preprints* 6, e27295v2. <https://doi.org/10.7287/peerj.preprints.27295v2>
- Brantschen, J., Pellissier, L., Walser, J. C., & Altermatt, F. 2022. Evaluation of primer pairs for eDNA-based assessment of Ephemeroptera, Plecoptera, and Trichoptera across a biogeographically diverse region. *Environmental DNA*. Vol 4(6): 1356-1368.

- Bur, T., Crouau, Y., Bianco, A., Gandois, L., & Probst, A. 2012. Toxicity Of Pb And Of Pb/Cd Combination On The Springtail *Folsomia Candida* In Natural Soils: Reproduction, Growth And Bioaccumulation As Indicators. *Science of the Total Environment*. Vol 414: 187-197. <https://doi.org/10.1016/j.scitotenv.2011.10.029>.
- Casey, J. M., Ransome, E., Collins, A. G., Mahardini, A., Kurniasih, E. M., Sembiring, A., ... & Meyer, C. P. 2021. DNA *metabarcoding* marker choice skews perception of marine eukaryotic biodiversity. *Environmental DNA*. Vol 3(6): 1229-1246.
- Curd, E., Gal, L., Gallego, R., Silliman, K., Nielsen, S., Gold, Z. 2023. rCRUX: A Rapid and Versatile Tool for Generating Metabarcoding Reference Libraries in R. *Environmental DNA*, 6(1). <https://doi.org/10.1002/edn3.489>.
- Fauziyyah, N., Putri, D. 2016. Isolasi Jamur dari Batuan Penutup Drainase Pada Sisi Selatan Lantai II Bidang H Candi Borobudur. *Jurnal Konservasi Cagar Budaya Borobudur*. Vol 10(2): 40-44. <https://doi.org/10.33374/jurnalkonservasicagarbudaya.v10i2.153>.
- Fitriani, I., Andani, N., Yuliana, A., Syarifudin, A. 2021. Keanekaragaman Vegetasi Pohon pada Lahan Pekarangan di Desa Tambakrejo Kecamatan Jombang Kabupaten Jombang. *Agrotechnology Research Journal*. Vol 5(2): 85 – 90.
- García, R. R., °C, haran, F. J., Jáuregui, B. M., García, U., Osoro, K., & Celaya, R. 2010. Ground-dwelling arthropod communities present in three types of cantabrian (nw spain) heathland grazed by sheep or goats. *European Journal of Entomology*, 107(2), 219-227. <https://doi.org/10.14411/eje.2010.029>
- Giebner, H., Langen, k., Bourlat, S., Kukowka, S., Mayer, C., Astrin, J., Misof, B., Fonesca, V. 2019. Comparing Diversity levels in *Environmental* Samples: DNA *Sequence* Capture and Metabarcoding Approaches Using 18S and COI Genes. *Wiley: Molecular Ecology Resources*, Vol 2020(20): 1333-1345.
- Gunarno. 2021. Perbandingan Indeks Keanekaragaman Serangga di Wilayah Ekosistem Hutan Penyangga Taman Nasional Gunung Leuser Bukit Lawang. *Jurnal Analisis Pemikiran Insan Cendekia*. Vol 4(2): 72-84.
- Hajar., Puspita, J. W., & Nacong, N. 2021. Dinamika Populasi Pada Ekosistem Mangrove. *Jurnal Ilmiah Matematika Dan Terapan*. Vol 18(1): 110-116.
- Hess, J. F., Kohl, T. A., Kotrová, M., Rönsch, K., Paprotka, T., Mohr, V., & Paust, N. 2020. Library preparation for next generation sequencing: A review of automation strategies. *Biotechnology advances*. Vol (41)107537 : 1-14.

- Hidayat, F., Farrasati, R., Winarna. 2021. Kajian Kerapatan dan Keragaman Organisme Tanah Gambut di Bawah Tegakan Tanaman Kelapa Sawit. *Jurnal Pendidikan Kelapa Sawit*. Vol 29(2): 115-126.
- Hill, G. M., Kawahara, A. Y., Daniels, J. C., Bateman, C., & Scheffers, B. R. 2021. Climate change effects on animal ecology: butterflies and moths as a case study. *Biological Reviews*. Vol 96(5): 2113-2126. <https://doi.org/10.1111/brv.12746>.
- Hintikka, S., Carlsson, J. E., & Carlsson, J. 2021. The bacterial hitchhiker's guide to COI: Universal primer-based COI capture probes fail to exclude bacterial DNA, but 16S capture leaves metazoa behind. *Metabarcoding and Metagenomic*. Vol 6:145-159.
- Holland, N. D. and Somorjai, I. M. L. 2020. Tail regeneration in a cephalochordate, the bahamas lancelet, asymmetron lucayanum. *Journal of Morphology*, Vol 282(2): 217-229. <https://doi.org/10.1002/jmor.21297>.
- Husen, E., Surono., Pratiwi, E., Widowati, LR. 2022. Metode Analisis Biologi Tanah, Edisi. Bogor, Indonesia : Balai Penelitian Tanah.
- Hutauruk D., Marhaeni, A., Malewa, S., Dabukke, R., Nurhayu, W., Darmawan, A. 2023. Keanekaragaman Jenis Arthropoda di Arboretum Institut Teknologi Sumatera. *Journal of Biological and Life Sciences*. Vol 1: 24-27.
- Jacobs-Palmer, E., Gallego, R., Cribari, K., Keller, A., & Kelly, R. P. 2020. *Environmental* dna metabarcoding for simultaneous monitoring and ecological assessment of many harmful algae. *BioRxiv: Cold Spring Harbor Laboratory*. <https://doi.org/10.1101/2020.10.01.322941>
- Kusuma, T., Hadi, M., Hidayat, J. 2022. Struktur Komunitas Kupu – Kupu (Lepidoptera: Rhopalocera) di KHDTK Wanadipa Undip Kabupaten Semarang, Jawa Tengah. *Jurnal Bioma*, Vol 24(1): 90 – 95.
- Lalla, C., Calvasuro, R., Dick S., Prieto, A. 2021. Winogradsky Columns as a Strategy to Study Typically Rare Microbial Eukaryotes. *Elsevier European Journal of Protistology*. Vol 80: 1 – 20.
- Leray, M., Yang, J.Y., Meyer, C.P. et al. 2013. A new versatile primer set targeting a short fragment of the mitochondrial COI region for metabarcoding metazoan diversity: application for characterizing coral reef fish gut contents. *Front Zool*. Vol 10 (34). <https://doi.org/10.1186/1742-9994-10-34>.
- Leal, M. C., Munro, M. H. G., Blunt, J. W., Puga, J., Jesus, B., Calado, R., ... & Madeira, C. 2013. Biogeography and biodiscovery hotspots of macroalgal marine natural products. *Natural Product Reports*, 30(11), 1380.

<https://doi.org/10.1039/c3np70057g>.

- Lusia, E., Widianingsih., Riniatsih, I. 2013. Struktur Komunitas Fitoplankton Di Ekosistem Padang Lamun Alami dan Buatan Di Perairan Teluk Awur Jepara. *Journal of Marine Research*. Vol 2(4): 1-7.
- Magoga, G., Forni, G., Brunetti, M., Merai, A., Spada, A., Biase, A., Montagna, M. Curation of a Reference database of COI *Sequences* for Insect Identification Through DNA Metabarcoding: COins. *DATABASE: The Journal of Biological Database and Curation*, Vol 00: 1-7.
- Marfuah, S., Kolondam, B., Tallei, T. 2021. Potensi *Environmental DNA (e-DNA)* untuk Pemantauan Konservasi Keanekaragaman Hayati. *Jurnal Bios Logos*. Vol 11(1) : 75 – 81.
- Margareta, A., 2023. Wawasan Bioinformatika *Next Generation Sequencing* dalam Sampel Metagenomik Mikrobioma Usus. *Jurnal Medical Laboratory*. Vol 2 (1): 1 – 17.
- Marnis, H., Syahputra, K., Darmawan, J., Febrianti, D., Tahapari, E., Larashati, S., ... & Subangkit, A. T. 2024. Utilizing edna methods in biodiversity studies of rivers affected by anthropogenic pollution: a case study on the Batanghari rivers in indonesia. *Springer: Biodiversity and Conservation*. <https://doi.org/10.21203/rs.3.rs-4462558/v1>.
- Marshall, N. T. and Stepien, C. A. 2020. Macroinvertebrate community diversity and habitat quality relationships along a large river from targeted edna metabarcode assays. *Environmental DNA*. Vol 2(4): 572-586. <https://doi.org/10.1002/edn3.90>.
- Martín, M.L.T., Lavega, R., Carrasco, J.C., Pérez, M., Pérez-Pulido, A.J., Thon, M. & Pérez Benito, E. 2022. Influence of *Agaricus bisporus* establishment and fungicidal treatments on casing soil meta taxonomy during mushroom cultivation. *BMC Genomics*, 23(1).
- Mollah, A., Ashan, M. A., & Khatimah, A. H. 2022. Uji Kualitas dan Kuantitas DNA Porang (*Amorphophallus Muelleri* Blume) pada Beberapa Kawasan di Sulawesi Selatan. *Jurnal Agritechno*. Vol 15(1) : 1-7.
- Moroz, L. L. 2015. Convergent evolution of neural systems in ctenophores. *Journal of Experimental Biology*. Vol 218(4): 598-611. <https://doi.org/10.1242/jeb.110692>
- Mugnai, F., Megléc, E., Costantini, F., Abbiati, M., Bavestrello, G., Bertasi, F., ... & Wangensteen, O. S. 2021. Are marine biodiversity hotspots still blackspots for barcoding?. *Biorxiv*. 07.12.448298. <https://doi.org/10.1101/2021.07.12.448298>.

- Muhammad, F., Maryono., Hadiyanto., Ratnaningsih, T., Hastuti, R. 2023. Reboisasi sebagai Upaya Konservasi di KHDTK Dipo Forest Hutan Penggaron Kabupaten Semarang. *Jurnal Pasopati*, Vol 5 (1): 29 – 36.
- Nasution, N. 2016. Keanekaragaman Laba-Laba (Araneae) Pada Ekosistem Sawah dengan Beberapa Pola Tanam di Kota Padang. *Jurnal Bi°C, oncetta*. Vol 2(1): 12-20.
- Natal-da-Luz, T., Römbke, J., & Sousa, J. P. 2008. Avoidance Tests In Site-Specific Risk Assessment—Influence Of Soil Properties On The Avoidance Response Of Collembola And Earthworms. *Environmental Toxicology and Chemistry*. Vol 27(5): 1112-1117. <https://doi.org/10.1897/07-386.1>.
- Nelson, D. R., Fletcher, R. A., Guidetti, R., Roszkowska, M., Grobys, D., & Kaczmarek, Ł. 2020. Two new species of tardigrada from moss cushions (*grimmia* sp.) in a xerothermic habitat in northeast tennessee (usa, north america), with the first identification of males in the genus *viridiscus*. *PeerJ*. Vol 8, e10251. <https://doi.org/10.7717/peerj.10251>.
- Nugraha, R., Dewi, P. S., & Nurilmala, M. 2022. Evaluasi Primer Gen COI sebagai Biomarker Ketertelusuran Ikan menggunakan Bioinformatika. *Jurnal Pengolahan Hasil Perikanan Indonesia*. Vol 25(1):67-79.
- Nuraida, D., Rosyida, S., Widyawati, N., Sari, K., Fanani, M. 2022. Analisis Vegetasi Tumbuhan Herba di Kawasan Hutan Krawak. *Jurnal Biologi dan Pembelajarannya*. Vol 9(2): 96 – 104.
- Nuraina, I., Fahrizal., Prayogo, H. 2018. Analisa Komposisi dan Keanekaragaman Jenis Tegakan Penyusun Hutan Tembawang Jelemuk di Desa Meta Bersatu Kecamatan Sayan Kabupaten Melawi. *Jurnal Hutan Lestari*. Vol 6(1): 137-146.
- Nurudin, F., Kariada, N., Irsadi, A. 2013. Keanekaragaman Jenis Ikan Di Sungai Sekonyer Taman Nasional Tanjung Puting Kalimantan Tengah. *Unnes Journal of Life Science*. Vol2(2): 118-125.
- Orlowski, G., Frankiewicz, J., & Karg, J. 2016. Nestling diet optimization and condition in relation to prey attributes and breeding patch size in a patch-resident insectivorous passerine: an optimal continuum and habitat constraints. *Journal of Ornithology*. Vol 158(1): 169-184. <https://doi.org/10.1007/s10336-016-1394-7>.
- Pérez-Bote, J. L. and Romero, A. J. 2012. Epigeic soil arthropod abundance under different agricultural land uses. *Spanish Journal of Agricultural Research*. Vol 10(1): 55-61. <https://doi.org/10.5424/sjar/2012101-202-11>.
- Purcena, L. L. A., Leal, M. C. B. D. M., Leandro, W. M., & Fernandes, K. F. 2014.

- Effects of organic and conventional management of sugarcane crop on soil physicochemical characteristics and phosphomonoesterase activity. *Journal of Agricultural and Food Chemistry*. Vol 62(7): 1456-1463. <https://doi.org/10.1021/jf403141w>.
- Razzak, M., Awwal, M., Rahman, M., Bashar, K. 2020. Diversity and abundance of soil arthropods in Jahangirnagar University campus, Dhaka, Bangladesh. *International Journal of Fauna and Biological Studies*. Vol 9(6): 07-12.
- Reinhold-Castro, K. R., Gasparotto, J. d. C., Neitzke-Abreu, H. C., & Teodoro, U. 2015. Larval habitats of sand flies in rural areas of southern Brazil. *Journal of Vector Ecology*, 40(2), 269-276. <https://doi.org/10.1111/jvec.12164>.
- Rizko, N., Kusumaningrum, H., Ferniah, R., Pujiyanto, S., Erfianti, T., Mawarni, S., Rahayu, H., Khairunnisa, D. 2020. Isolasi DNA Daun Jeruk Bali Merah (*Citrus maxima* Merr.) dengan Modifikasi Metode *Doyle and Doyle*. *Jurnal Berkala Bioteknologi*. Vol 3(2): 1-7.
- Roume, A., Deconchat, M., Raison, L., Balent, G., & Ouin, A. 2011. Edge effects on ground beetles at the woodlot-field interface are short-range and asymmetrical. *Agricultural and Forest Entomology*. Vol 13(4): 395-403. <https://doi.org/10.1111/j.1461-9563.2011.00534>.
- Sabaruddin., Fitri, S., Lestari, L. 2008. Hubungan Antara Kandungan Bahan Organik Tanah dengan Periode Pasca Tebang Tanaman HTI *Acacia Mangium* Willd. *Jurnal Tanah Tropical*. Vol 14(2): 105-110.
- Sadeghi, M., Tomaru, Y., & Ahola, T. 2021. RNA viruses in aquatic unicellular eukaryotes. *Viruses*. Vol 13(3): 362.
- Sankar, A. S. and Patnaik, A. 2018. Impact of soil physico-chemical properties on distribution of earthworm populations across different land use patterns in southern India. *The Journal of Basic and Applied Zoology*. Vol 79(1). <https://doi.org/10.1186/s41936-018-0066-y>.
- Santoso, Y. 2024. Keanekaragaman Morfotipe Collembola Serta Hubungannya Dengan Kualitas Tanah Di Kawasan Wanadipa Undip Penggaron, Kabupaten Semarang. *Skripsi*, Universitas Diponegoro.
- Saputra, D., Pakasi, S., Warouw, V. 2020. Identifikasi Sifat Fisik dan Kimia Tanah pada Lahan Persawahan di Kecamatan Kotamobagu Selatan. *Jurnal C<sup>o</sup>C, os E-Journal Universitas Sam Ratulangi*, Vol 2(2): 1 – 14.
- Schoefer, L., Mohan, R., Schwiertz, A., Braune, A., & Blaut, M. 2003. Anaerobic degradation of flavonoids by *Clostridium orbiscindens*. *Applied and Environmental Microbiology*. Vol 69(10): 5849-5854. <https://doi.org/10.1128/aem.69.10.5849-5854.2003>.

- Shahra, F., Jayanthi, S., Sentosa, Z., Ayu, M., Syahputra, M. 2023. Keanekaragaman Moluska Sebagai Indikator Kualitas Air di Kuala Langsa, Aceh. *Jurnal Jeumpa: Jurnal Pendidikan Sains dan Biologi*. Vol 10(1): 49-57.
- Sihombing, E. P., Abdul R., Rahmawaty, Erwin N. A. 2017. Evaluasi Sifat Fisika Tanah Typic Hapludults Pada Empat Generasi Tanam Kelapa Sawit Pt S°C, fin Indonesia Di Kebun Aek Loba Kabupaten Asahan. *Jurnal Pertanian Tropik*. Vol.4, No.2. Agustus 2017. (11): 106- 113
- Suhadah, S. 2023. Keanekaragaman dan Kelimpahan Arthropoda Predator pada Lahan Pertanian Bawang Merah dalam Upaya Penyusunan Petunjuk Praktikum Ekologi. *Biocaster: Jurnal Kajian Biologi*. Vol 3(3): 165-178.
- Sulistiyorini, E., Laila, A., Jiedny, A. 2023. Identifikasi Arthropoda Tanah pada Lahan Tanaman Daun Bawang. *Jurnal Ilmu Tanah dan Lingkungan*, Vol 5 (1): 1 – 6.
- Sumarjan. 2021. Keanekaragaman Jenis Vegetasi di Kawasan Resort Kembang Kuning Kabupaten Lombok Timur. *Biocaster: Jurnal Kajian Biologi*. Vol 1(1): 44-51.
- Tewu, R., Theffie, K., Pioh, D. 2020. Kajian Sifat Fisik dan Kimia pada Tanah Berpasir di Desa Noongan Kecamatan Lawongan Barat. *Jurnal Cocos E – Journal Universitas Sam Ratulangi*. Vol 1(1): 1 – 8.
- Tian, M., Liang, J., Liu, S., Rong, Y., & Zhang, X. 2023. Effects of watermelon cropping management on soil bacteria and fungi biodiversity. *Agriculture*. Vol 13(5): 1010. <https://doi.org/10.3390/agriculture13051010>.
- Toly, S., 2019. Keragaman dan Kelimpahan Komunitas Arthropoda Permukaan Tanah dan Kanopi Tumbuhan di Hutan Taman Wisata Alam Baumata. *Jurnal Biotropia Sains*. Vol 16(1): 93 – 105.
- Turon, X., Zarcero, J., Antich, A., Wangenstein, O. S., Ballesteros, E., Cebrian, E., ... & Alcoverro, T. 2023. *Metabarcoding* the eukaryotic community of a threatened, iconic Mediterranean habitat: *Posidonia oceanica* seagrass meadows. *Frontiers in Marine Science*. Vol 10.
- Ulandari, Y. R., Sugara, A Yusidarta, I., Sutisna, M. 2023. Asosiasi Gastropoda pada Ekosistem Mangrove di Pulau Kelapa Dua Taman Nasional Kepulauan Seribu. *Prosiding Seminar Nasional Hasil Penelitian Kelautan dan Perikanan*. Vol 1(1): 187-193.
- Ventero, M.P., Espinosa, N., Jover, R., Guillen, Y., Merino, E. & Rodríguez, J.C. 2021. Evolution of Intestinal Microbiome in a Process of Faecal Microbiota Transplantation in a Patient with *Clostridium difficile* Infection:

- NGS Analysis with Different Bioinformatics Software Programs. *Enfermedades infecciosas y microbiología clínica* (English ed.), 39(4): 184–187.
- Wickham, H., Averick, M., Bryan, J., Chang, W., McGowan, L., François, R., Grolemund, G., Hayes, A., Henry, L., Hester, J., Kuhn, M., Pedersen, T., Miller, E., Bache, S., Müller, K., Ooms, J., Robinson, D., Seidel, D., Spinu, V., Takahashi, K., Vaughan, D., Wilke, C., Woo, K. & Yutani, H. 2019. Welcome to the Tidyverse. *Journal of Open Source Software*, 4(43): 1686.
- Wijerathna, T. and Gunathilaka, N. 2020. Diurnal adult resting sites and breeding habitats of phlebotomine sand flies in cutaneous leishmaniasis endemic areas of kurunegala district, sri lanka. *Parasites & Vectors*. Vol 13(1). <https://doi.org/10.1186/s13071-020-04154-7>.
- Willerslev, E., Thomsen, P. 2015. An Emerging Tool in Conservation for Monitoring Past and Present Biodiversity. Environmental DNA. *Elsevier Science Direct Biological Conservation*. Vol 183: 4 – 18.
- Wilujeng, E. D. I., Widyastuti, R., Tjahjono, B., & Suhardjono, Y. R. 2020. Soil Collembola On Land Affected By Pyroclastic Material Of Kelud Volcano, Ngantang Malang. *Journal of Degraded and Mining Lands Management*. Vol 7(3): 2105-2110. <https://doi.org/10.15243/jdmlm.2020.073.2105>.
- Yolla, R. 2019. Keanekaragaman dan Kelimpahan Arachnida pada Top Soil Lahan Pertanian Kedelai. *Skripsi*. Universitas Brawijaya : 39-42.
- Young, J.M., Austin, J.J., Weyrich, L.S. 2017. Soil DNA *Metabarcoding* and High-Throughput Sequencing as a Forensic Tool: Considerations, Potential Limitation and Recommendations. *FEMS Microbiology Ecology*. 93 (2): 1 – 8. <https://doi.org/10.1093/femsec/fiw207>.
- Zahra, P.J., H. Bancin & N. Amin. 2021. Struktur Komunitas Tumbuhan Herba di Desa Iboih Kecamatan Sukakarya Kota Sabang. *Prosiding Seminar Nasional Biotik*. 9(2): 48-51.
- Zhao, H., Li, X., Zhang, Z., Zhao, Y., Chen, P., & Zhu, Y. (2018). Drivers and assemblies of soil eukaryotic microbes among different soil habitat types in a semi-arid mountain in China. *PeerJ*, 6, e6042. <https://doi.org/10.7717/peerj.6042>.
- Zhao, M., Jiang, M., Qin, L., Hu, N., Meng, J., Wang, M., Wang, G. 2024. The Recovery of Soil Eukaryotic Alpha and Beta Diversity After Wetland Restoration. *Elsevier: Science of The Total Environment*. Vol 925: 1-9.