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ACADEMIC PROFILE

Biology lecturer and researcher specializing in plant phytochemistry, secondary metabolites, plant physiology, antibacterial and antibiofilm assays, and open distance science education. Her work connects laboratory-based plant research with accessible learning and academic service.

RESEARCH AREAS

Plant science Botany, plant physiology, medicinal flora	Phytochemistry Secondary metabolites, extraction, bioactivity
Microbiology Antibacterial and antibiofilm mechanisms	Education Open and distance biology learning

EDUCATION

2018 - 2022	Doctor in Microbiology, Universitas Gadjah Mada Dissertation: Potential of Sansevieria trifasciata and S. cylindrica leaf extracts: cellular and molecular mechanisms as antibacterials.
2007 - 2009	Master's Degree in Bioscience, Universitas Sebelas Maret Thesis: Anatomical, secondary metabolite, and molecular testing of Sansevieria trifasciata.
2002 - 2007	Bachelor's Degree in Biology, Universitas Sebelas Maret Undergraduate research on stocking density and Artemia franciscana biomass production.

ACADEMIC AND PROFESSIONAL APPOINTMENTS

2024 - Present	Academic Staff, Universitas Terbuka Yogyakarta Biology teaching, research, student guidance, and academic evaluation.
2022 - Present	Editorial Board Member, Horizon e-Publishing Group Plant phytochemistry and secondary metabolism subject expertise.
2022 - 2024	Manager of Learning Assistance and Teaching Materials Services, UT Lampung Learning assistance systems, instructional materials, and academic services.
2018 - 2022	Doctoral Researcher, Universitas Gadjah Mada Experimental research on cellular and molecular antibacterial mechanisms.
2015 - 2018	Manager of Tutorials and Teaching Materials, UT Lampung Tutorial delivery, tutor coordination, and teaching-material distribution.
2008 - 2015	Academic Staff, Universitas Terbuka Lampung Biology instruction, practical modules, and student academic advising.

SELECTED SCHOLARLY WORKS

Dewatisari, W. F., & To'Bungan, N. (2025). Skrinng Fitokimia sebagai Kandidat Anti-quorum Sensing Bakteri dari Bahan Alam Tumbuhan. Deepublish. ISBN 978-634-01-1836-0.

Dewatisari, W. F., Situmorang, P. C., Setyawati, A., Utami, S., & Zuhairi, F. R. (2025). Efficacy of *Gynura procumbens* (Lour.) Merr. extract in enhancing diabetic wound healing through modulation of IL-1 β , PDGF β , and TGF- β in a rat model. *Journal of Pharmacy & Pharmacognosy Research*, 13(6), 1776-1796.

Wulandari, A. R., & Dewatisari, W. F. (2025). Literature Review: Natural Anthelmintic from Moringa Leaves (*Moringa oleifera*) for Controlling *Haemonchus contortus* in Goats. *Jurnal Biologi Tropis*, 25(4a), 713-725.

Dewatisari, W. F., & Nuryandani, E. (2024). A review: Potensi *Dracaena liberica* (Gérôme & Labroy) Christenh sebagai etnomedicine dan treaupetic. *E3S Web of Conferences*, 483, 01005. DOI: 10.1051/e3sconf/202448301005.

Dewatisari, W. F., & Hariyadi, H. (2024). Potensi Antibakteri Minuman Fungsional Tradisional Jawa (Wedang Uwuh) Berdasarkan Variasi Waktu Rebusan [The Antibacterial Potential of Traditional Javanese Functional Beverage Based on Boiling Time Variation]. *Jurnal Teknologi dan Industri Pangan*, 35(1), 10-26. DOI: 10.6066/jtip.2024.35.1.10.

Dewatisari, W. F. (2023). Ethnopharmacology and Potential of Bioactive Compounds in Butterfly Pea (*Clitoria ternatea* Linn.) as Antibacterial - A Review. In *Trends in Science and Technology for Sustainable Living*, 2, 207-230. Universitas Terbuka.

Dewatisari, W. F., & To'Bungan, N. (2023). Biological activity and phytochemistry of *Dracaena angolensis* Welw. ex Carrière. *Plant Science Today*, 10(4).

Dewatisari, W. F. (2020). Comparison of chloroform and ethanol solvents on the yield of tongue-in-law (*Sansevieria trifasciata* Prain) leaf extract using maceration method. *Journal of Pharmacy*, 3(1), 127-132.

Dewatisari, W. F. (2019). Aktivitas Antibakteri Ekstrak Etanol Daun Cabe Rawit Putih (*Capsicum frutescens*). *Proceeding Biology Education Conference*, 16(1).

Dewatisari, W. F. (2019). Perbandingan Variasi Pelarut Dari Ekstrak Daun Lidah Mertua (*Sansevieria trifasciata*) Terhadap Rendemen Dan Aktivitas Antibakteri. *Prosiding Seminar Nasional Biologi Universitas Muhammadiyah Surakarta*.

Dewatisari, W. F., Setyawati, A., Jafar, N., Riyanti, D., Nugroho, D. S., Rahayu, D. P., et al. (2026). Implementasi Teknologi Tepat Guna Cookies Sambung Nyawa (*Gynura procumbens*) untuk Pemberdayaan PKK Sidomulyo, Pengasih, Kulon Progo, Yogyakarta. *Kurnia Mengabdikan: Jurnal Pengabdian kepada Masyarakat*, 3(2), 196-213.

ACADEMIC PROFILES AND SELECTED SOURCES

Google Scholar	https://scholar.google.com/citations?user=flswQ24AAAAJ
ORCID	https://orcid.org/0000-0003-4381-6096
SINTA	https://sinta.kemdiktisaintek.go.id/authors/profile/6036444
Universitas Terbuka Repository	https://repository.ut.ac.id/view/creators/Dewatisari=3AWhika_Febria=3A=3A.html
FST Universitas Terbuka faculty directory	https://fst.ut.ac.id/dosen/
Personal academic website	https://whika.de/

Last updated: 30 September 2026. Selected publications only; the complete and current record and citation metrics are available through the linked profiles and publications archive at whika.de.