

## DAFTAR PUSTAKA

- Al Nahdi, A. M. T., John, A., & Raza, H. (2017). Elucidation of Molecular Mechanisms of Streptozotocin-Induced Oxidative Stress, Apoptosis, and Mitochondrial Dysfunction in Rin-5F Pancreatic  $\beta$  -Cells. *Oxidative Medicine and Cellular Longevity*, 2017. <https://doi.org/10.1155/2017/7054272>
- Alfaridz, F., & Amalia, R. (2018). Klasifikasi Dan Aktivitas Farmakologi Dari Senyawa Aktif Flavonoid. *Farmaka*, 16(3), 1–9.
- Aligita, W., Susilawati, E., Sukmawati, I. K., Holidayanti, L., & Riswanti, J. (2018). Antidiabetic activities of *Muntingia calabura* L. leaves water extract in type 2 diabetes mellitus animal models. *Indonesian Biomedical Journal*, 10(2), 165–170. <https://doi.org/10.18585/inabj.v10i2.405>
- Alrizaldi, A., Aisyah, R., & Jatmiko, S. W. (2021). The Effect of Coffee on The Quantity of Spermatozoa of Diabetic Wistar Rats Inducted By Aloxan. *Herb-Medicine Journal*, 4(2), 11. <https://doi.org/10.30595/hmj.v4i2.7761>
- Amelia, Y. T., Hanizar, E., & Sari, D. R. (2021). The Effect of Consuming Avocado (*Persea americana*) on Mice (*Mus musculus*) Sperm Quality. *BIOVALENTIA: Biological Research Journal*, 7(1), 11–17. <https://doi.org/10.24233/biov.7.1.2021.201>
- Andalia, N., Safrida, & Sabri, M. (2017). Efektivitas Pemberian Ekstrak Daun Kersen (*Muntingia calabura* L.) terhadap Struktur Mikroskopis Sel Beta Pankreas Tikus Hiperglikemik. *Jurnal EduBio Tropika*, 5(April), 1–53. <https://jurnal.usk.ac.id/JET/article/view/7148>
- Badami, N. R. N., & Sulistyningrum, E. (2017). Pengaruh Ekstrak Air Daun Kersen (*Muntingia calabura*) terhadap Skor Spermatogenesis pada *Mus musculus* Balb/C Terinduksi D-Galaktosa.
- Bánki, O., Roskov, Y., Döring, M., Ower, G., Hernández Robles, D. R., Plata Corredor, C. A., Stjernegaard Jeppesen, T., Örn, A., Vandepitte, L., Hobern, D., Schalk, P., DeWalt, R. E., Ma, K., Miller, J., Orrell, T., Aalbu, R., Abbott, J., Adlard, R., & Aedo, C. (2024). *Catalogue of Life*. <https://www.gbif.org/dataset/7ddf754f-d193-4cc9-b351-99906754a03b>
- Barkabi-Zanjani, S., Ghorbanzadeh, V., Aslani, M., Ghalibafsabbaghi, A., & Chodari, L. (2020). Diabetes mellitus and the impairment of male reproductive function: Possible signaling pathways. *Diabetes and Metabolic*

Dianing Shabrina Marhamati, 2025

**PENGARUH EKSTRAK DAUN KERSEN (*Muntingia calabura*) TERHADAP KONSENTRASI DAN MORFOLOGI SPERMATOZOA MENCIT (*Mus musculus*) DIABETIK YANG DIINDUKSI STREPTOZOTOCIN**

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*Syndrome: Clinical Research and Reviews*, 14(5), 1307–1314.  
<https://doi.org/10.1016/j.dsx.2020.07.031>

Dillasamola, D. (2020). *Infertilitas: Kumpulan Jurnal Penelitian mengenai Infertilitas* (H. Kurniawan (ed.)). [www.lppm.unand.ac.id](http://www.lppm.unand.ac.id)

Ding, G. L., Liu, Y., Liu, M. E., Pan, J. X., Guo, M. X., Sheng, J. Z., & Huang, H. F. (2015). The effects of diabetes on male fertility and epigenetic regulation during spermatogenesis. *Asian Journal of Andrology*, 17(6), 948–953.  
<https://doi.org/10.4103/1008-682X.150844>

Dutta, S., Majzoub, A., & Agarwal, A. (2019). Oxidative Stress and Sperm Function: A Systematic Review on Evaluation and Management. *Arab Journal of Urology*, 17.

Fajarwati, I., Solihin, D. D., Wresdiyati, T., & Batubara, I. (2023). Administration of Alloxan and Streptozotocin in Sprague Dawley Rats and the Challenges in Producing Diabetes Model. *IOP Conference Series: Earth and Environmental Science*, 1174(1). <https://doi.org/10.1088/1755-1315/1174/1/012035>

Furman, B. L. (2021). Streptozotocin-Induced Diabetic Models in Mice and Rats. *Current Protocols*, 1(4), 1–21. <https://doi.org/10.1002/cpz1.78>

GBIF Secretariat. (2022). *GBIF Backbone Taxonomy*. GBIF.Org. <https://www.gbif.org/dataset/d7dddbf4-2cf0-4f39-9b2a-bb099caae36c#citation>

Hall, J. E., Hall, M. E., & Guyton, A. C. (2021). *Guyton and Hall Textbook of Medical Physiology, 14th Edition*. Elsevier.

Hasanuddin, A. R. P., Yusran, Islawati, & Artati. (2023). Analisis Kadar Antioksidan pada Ekstrak Daun Binahong Hijau *Anredera cordifolia* (Ten.) Steenis. *Bioma: Jurnal Biologi Makassar*, 8(August 2022), 66–74.  
<https://journal.unhas.ac.id/index.php/bioma>

Huang, R., Chen, J., Guo, B., Jiang, C., & Sun, W. (2024). Diabetes-induced male infertility: potential mechanisms and treatment options. *Molecular Medicine*, 30(1). <https://doi.org/10.1186/s10020-023-00771-x>

IDF. (2021). *IDF Diabetes Atlas (10th edition)*. [www.diabetesatlas.org](http://www.diabetesatlas.org)

Kemenkes-RI. (2018). *Diabetes: Penderita di Indonesia Bisa Mencapai 30 Juta*

Dianing Shabrina Marhamati, 2025

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*Orang pada Tahun 2030*. <https://p2ptm.kemkes.go.id/tag/diabetes-penderita-di-indonesia-bisa-mencapai-30-juta-orang-pada-tahun-2030>

- Khairani, D., Ilyas, S., & Midoen, Y. H. (2024). *Hewan Percobaan Mencit (Mus musculus)* (Issue January).
- Kuchekar, M., Upadhye, M., Pujari, R., Kadam, S., & Gunjal, P. (2021). *Muntingia calabura: A comprehensive review*. *Journal of Pharmaceutical and Biological Sciences*, 9(2), 81–87. <https://doi.org/10.18231/j.jpbs.2021.011>
- Makalunsenge, M. O., Yudistira, A., & Rumondor, E. (2022). Uji Aktivitas Antioksidan Ekstrak dan Fraksi dari *Callyspongia aerizusa* yang Diperoleh dari Pulau Manado Tua. *Pharmacop*, 11(4), 1679–1684.
- Mutammimah, S., Supriyanto, S., & Mu'tamar, M. F. F. (2022). Aktivitas Antioksidan dan Antibakteri Ekstrak Daun Kersen (*Muntingia Calabura L*) dengan Metode Microwave Assisted Extraction. *Rekayasa*, 15(1), 21–28. <https://doi.org/10.21107/rekayasa.v15i1.13229>
- Mutiarahmi, C. N., Hartady, T., & Lesmana, R. (2021). Tinjauan Literatur: Penggunaan Mencit Sebagai Hewan Coba di Laboratorium yang Mengacu pada Prinsip Kesejahteraan Hewan. *Indonesia Medicus Veterinus, January*. <https://doi.org/10.19087/imv.2020.9.3.418>
- Nawir, I., Anna, C., Afifah, N., Sulandjari, S., & Handajani, S. (2021). Pemanfaatan Daun Kersen (*Muntingia calabura L.*) Menjadi Teh Herbal. *Jurnal Tata Boga*, 10(1), 1–11. <https://ejournal.unesa.ac.id/index.php/jurnal-tata-boga/>
- Ningsih, I. S., Chatri, M., Advinda, L., & Violita. (2023). Senyawa Aktif Flavonoid yang Terdapat Pada Tumbuhan. *Serambi Biologi*, 8(2).
- Nugroho, R. A. (2018). *Mengenal Mencit Sebagai Hewan Laboratorium* (A. H. Khanz (ed.)). Mulawarman University Press.
- Prawitasari, D. S. (2019). Diabetes Melitus dan Antioksidan. *KELUWIH: Jurnal Kesehatan Dan Kedokteran*, 1(1), 48–52. <https://doi.org/10.24123/kesdok.v1i1.2496>
- Resti, H. Y., & Cahyati, W. H. (2022). Kejadian Diabetes Melitus Pada Usia Produktif Di Puskesmas Kecamatan Pasar Rebo. *Higeia Journal Of Public Health Research And Development*, 6(3), 350–361.

Dianing Shabrina Marhamati, 2025

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<http://journal.unnes.ac.id/sju/index.php/higeia>

- Safna, F. L., Kartika, V., Khalid, N., Rachman, M. E., & Surdam, Z. (2021). Peran Ekstrak Daun Kersen (*Muntingia calabura* L) terhadap Perubahan Kadar Glukosa Darah Mencit (*Mus musculus*). *Fakumi Medical Journal: Jurnal Mahasiswa Kedokteran*, 1(2), 88–96. <https://doi.org/10.33096/fmj.v1i2.82>
- Sharma, A., Minhas, S., Dhillon, W. S., & Jayasena, C. N. (2021). Male infertility due to testicular disorders. *Journal of Clinical Endocrinology and Metabolism*, 106(2), E442–E459. <https://doi.org/10.1210/clinem/dgaa781>
- Sherwood, L. (2010). *Introduction to Human Physiology, Edisi 8, Edisi Internasional*.
- Stevani, H. (2016). *Praktikum Farmakologi*. Kementerian Kesehatan Republik Indonesia: Pusat Pendidikan Sumber Daya Manusia Kesehatan.
- Suarni, E., Dasrul, D., Lubis, T. M., Azhar, A., Rinidar, R., & Ismail, I. (2021). The Sperm Quality of Diabetic Rat (*Rattus norvegicus*) After Treated with Bitter Melon (*Momordica charantia* L.) Extract. *Jurnal Medika Veterinaria*, 14(2), 160–166. <https://doi.org/10.21157/j.med.vet..v14i2.3679>
- Sumarni, S., Sadino, A., & Sumiwi, S. A. (2022). Literature Review: Chemical Content and Pharmacological Activity of Kersen Leaf (*Muntingia calabura* L.). *Jurnal Farmasi Sains Dan Praktis*, 8(1), 13–20. <https://doi.org/10.31603/pharmacy.v8i1.3802>
- Sunarto, Wisnu, N., & Ngestiningrum, A. H. (2019). Modul Ajar Anatomi Fisiologi. In *Prodi Kebidanan Magetan Poltekkes Kemenkes Surabaya* (Vol. 40, Issue 6).
- Sunder, M., & Leslie, S. W. (2022). Semen Analysis. *StatPearls*. <https://www.ncbi.nlm.nih.gov/books/NBK564369/>
- Taslim, N. A., Sutisna, N., Nurkolis, F., Qhabibi, F. R., Kurniawan, R., & Mayulu, N. (2023). Dietary supplementation of *Muntingia calabura* leaves ameliorates reactive oxygen species and malondialdehyde levels: clinical study on alloxan-induced hyperglycemic rats. *Clinical Nutrition Open Science*, 48, 87–96. <https://doi.org/10.1016/j.nutos.2023.03.004>
- Tortora, G. J., & Derrickson, B. (2017). Principles of Anatomy & Physiology 15th Edition. In *John Wiley & Sons, Inc., 2017* (15th ed.).

Dianing Shabrina Marhamati, 2025

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- Wahab, D. N. H., Hasanah, U., Harfiani, E., & Thadeus, M. S. (2025). The Effect of Moringa Leaf Extract Administration on Sperm Morphology and Blood Glucose Reduction in Alloxan-Induced Sprague Dawley Rats. *Al-Kauniyah: Jurnal Biologi*, 18(1), 114–121. <https://doi.org/10.15408/KAUNIYAH.V1I1.37286>
- Wahyudi, A. T., & Minarsih, T. (2023). Pengaruh Ekstraksi dan Konsentrasi Etanol terhadap Kadar Flavonoid Total dan Aktivitas Antioksidan Ekstrak Jahe Emprit (*Zingiber officinale* var. *Amarum*). *Indonesian Journal of Pharmacy and Natural Product*, 6(01), 30–38. <https://doi.org/10.35473/ijpnp.v6i01.2208>
- World Health Organization. (2010). WHO laboratory manual for the examination and processing of human semen, Fifth Edition. In *World Health Organization*.
- World Health Organization. (2021). *WHO laboratory manual for the examination and processing of human semen, Sixth Edition*.