

DAFTAR PUSTAKA

- Adera *et al.*, 2006; Alhujaily *et al.*, 2022; Al-Khayri *et al.*, 2022a, 2022b; Baharara *et al.*, 2020; Choy *et al.*, 2019; FAIZAH *et al.*, 2023; Ginwala *et al.*, 2019; Gu *et al.*, 2021; Guo *et al.*, 2020; Russo *et al.*, 2019; Shamsudin *et al.*, 2022; Zhou *et al.*, 2023)
- Aitken, R. J., Drevet, J. R., Moazamian, A., & Gharagozloo, P. (2022). Male Infertility and Oxidative Stress: A Focus on the Underlying Mechanisms. In *Antioxidants* (Vol. 11, Issue 2). MDPI. <https://doi.org/10.3390/antiox11020306>
- Anggi, A. (2016). Pengaruh Pemberian Dark Chocolate Pada Jumlah Spermatozoa Mencit Balb/C Jantan Yang Dipapar Asap Rokok.
- Arisandi, W., Al Gazali, M., Lama, B., Ilir Bar, K. I., Palembang, K., & Selatan, S. (2023). Science Midwifery Risk factors for endocrine diseases in human reproduction causes of infertility (a literature review). In *Science Midwifery* (Vol. 11, Issue 1). Online. www.midwifery.iocspublisher.org Journalhomepage:www.midwifery.iocspublisher.org
- Barbu, M. G., Thompson, D. C., Suciu, N., Voinea, S. C., Cretoiu, D., & Predescu, D. V. (2021). The roles of micrnas in male infertility. In *International Journal of Molecular Sciences* (Vol. 22, Issue 6, pp. 1–13). MDPI AG. <https://doi.org/10.3390/ijms22062910>
- Bhadoriya, S. S. , G. A. , B. R. P. S. , S. S. K. , & P. J. R. (2018). Antidiabetic potential of polyphenolic-rich fraction of Tamarindus indica seed coat in alloxan-induced diabetic rats. *Journal of Basic and Clinical Physiology and Pharmacology*, 29(1).
- Chong, U. R. W., Abdul-Rahman, P. S., Abdul-Aziz, A., Hashim, O. H., & Mat Junit, S. (2012). Tamarindus indica extract alters release of alpha enolase, apolipoprotein A-I, transthyretin and rab GDP dissociation inhibitor beta from HepG2 cells. *PLoS ONE*, 7(6). <https://doi.org/10.1371/journal.pone.0039476>
- Christijanti, W., Iswari, R., Biologi, J., & Negeri Semarang Jl Raya Sekaran, U. (n.d.). *Pengaruh Ekstrak Daun Kelor (Moringa oleifera) Terhadap Kualitas Sperma Tikus Hiperglikemia*.

- Fagbemi, K. O., Olajuyigbe, O. O., & Cooposamy, R. (2023). Biogenic synthesis, characterization, antibacterial and antioxidant activities of silver nanoparticles mediated from *Tamarindus indica* Linn fruit pulp extract. *Journal of HerbMed Pharmacology*, 12(4), 459–468. <https://doi.org/10.34172/jhp.2023.43430>
- Fakhrurrazi, H. R. F. , & K. C. N. (2016). Pengaruh Daun Asam Jawa (*Tamarindus Indica* Linn) Terhadap Pertumbuhan *Candida Albicans*. . *Journal Of Syiah Kuala Dentistry Society*, 1(1).
- Faradiba, A. , G. A. , & K. J. J. (2016). Daya Antibakteri Infusa Daun Asam Jawa (*Tamarindus indica* Linn) terhadap *Streptococcus mutans*. *E-Jurnal Pustaka Kesehatan*, 4(1).
- Ghaly, M. F., Albalawi, M. A., Bendary, M. M., Shahin, A., Shaheen, M. A., Abu Eleneen, A. F., Ghoneim, M. M., Elmaaty, A. A., Elrefai, M. F. M., Zaitone, S. A., & Abousaty, A. I. (2023). *Tamarindus indica* Extract as a Promising Antimicrobial and Antivirulence Therapy. *Antibiotics*, 12(3). <https://doi.org/10.3390/antibiotics12030464>
- Hall, J. E. , & H. M. E. (2021). *Physiology Guyton and Hall 14th Ed. Elsevie*.
- Hardianto, D. (2020). *BIOTEKNOLOGI & BIOSAINS INDONESIA A Comprehensive Review of Diabetes Mellitus: Classification, Symptoms, Diagnosis, Prevention, and Treatment*. <http://ejurnal.bppt.go.id/index.php/JBBI>
- Hasyim, H. (2017). *Basic Health Research*. <https://www.researchgate.net/publication/322624680>
- Henrique de Souza, G., Paes Silva, B., Mikuska Cordeiro, M., Franco de Oliveira, V., Bracht, L., Fernando Comar, J., Marina Peralta, R., Bracht, A., & Babeto de, A. (2023). *Hydroethanolic Extract Of Tamarindus Indica Seeds Decreases Body And Liver Fat In Obese Mice*.
- Houston, B. J., Riera-Escamilla, A., Wyrwoll, M. J., Salas-Huetos, A., Xavier, M. J., Nagirnaja, L., Friedrich, C., Conrad, D. F., Aston, K. I., Krausz, C., Tüttelmann, F., O'bryan, M. K., Veltman, J. A., & Oud, M. S. (2022). A systematic review of the validated monogenic causes of human male infertility: 2020 update and a discussion of emerging gene-disease relationships. In *Human Reproduction Update* (Vol. 28, Issue 1, pp. 15–29). Oxford University Press. <https://doi.org/10.1093/humupd/dmab030>

- Hsu, P. J., Zhu, Y., Ma, H., Guo, Y., Shi, X., Liu, Y., Qi, M., Lu, Z., Shi, H., Wang, J., Cheng, Y., Luo, G., Dai, Q., Liu, M., Guo, X., Sha, J., Shen, B., & He, C. (2017). Ythdc2 is an N6 -methyladenosine binding protein that regulates mammalian spermatogenesis. *Cell Research*, 27(9), 1115–1127. <https://doi.org/10.1038/cr.2017.99>
- Ihwan, K., Nurpiah, Risfianty, D. K., Husain, P., Sanuriza, I. Il, Atika, B. N. D., & Jayadi, I. (2023). Activity Test of Ethanol Extract of Tamarind Leaves (*T. indica L*) Against the Inhibitory Power of Escherichia coli Bacteria. *Jurnal Biologi Tropis*, 23(4), 650–657. <https://doi.org/10.29303/jbt.v23i4.5696>
- Kadir, M. A., Wibowo, E. S., Abubakar, S., & Akbar, N. (2019). Manfaat Mangrove Bagi Peruntukan Sediaan Farmasitika Di Desa Mamuya Kecamatan Galela Timur Kabupaten Halmahera Timur (Tinjauan Etnofarmakologis). *Jurnal Enggano*, 4(1), 12–25. <https://doi.org/10.31186/jenggano.4.1.12-25>
- Katsayal, B. S., Muhammad, A., Ahmed, A., & Sallau, A. B. (2021). *Microparticles Immobilized Tamarindus Indica Extract Bioremediates Toxic Chromium in Tannery Euent and Contaminated Soil*. <https://doi.org/10.21203/rs.3.rs-142360/v1>
- Kuru, P. (2014). Tamarindus indica and its health related effects. *Journal of Tropical Biomedicine (Vol. 4, Issue 9)*.
- Lahamado, O. T., Sabang, S. M., & Mustapa, K. (2017). *Ekstrak Daun Asam Jawa (T. indica L) Sebagai Antidiabetes*. <https://doi.org/https://10.22487/j24775185.2017.v6.i1.9221>
- Mannucci, A., Argento, F. R., Fini, E., Coccia, M. E., Taddei, N., Becatti, M., & Fiorillo, C. (2022). The Impact of Oxidative Stress in Male Infertility. In *Frontiers in Molecular Biosciences* (Vol. 8). Frontiers Media S.A. <https://doi.org/10.3389/fmolb.2021.799294>
- Meis, D. F., Devi, M., & Wibowotomo, B. (2020). *Pengaruh Rasio Berat Daun Sukun (Artocarpus altilis) Dan Daun Sinom (Tamarindus indica L) Terhadap Kapasitas Antioksidan Dan Uji Organoleptik Minuman Fungsional Sinom Daun Sukun*.
- Mescher, L. A. (2017). *Histologi Dasar Junqueira : teks & atlas*. Penerbit Buku Kedokteran EGC.

- Munjiati, N. E., Sulistiyowati, R., & Kurniawan. (2021). *Pengaruh Pemberian Streptozotocin Dosis Tunggal Terhadap Kadar Glukosa Tikus Wistar (Rattus norvegicus)* (Vol. 9, Issue 1).
- Normasari, R., Fauzi, M. I., & Aziz, A. M. (2021). The Protection Effect Of Methanol Extract From Asam Jawa Seed On Testicular Tissue Damage Induced By Aluminium Chloride (AlCL₃). In *Journal of Agromedicine and Medical Sciences* (Vol. 7, Issue 1).
- Novia, D., Sugiarto, S., & Dewi, Y. L. (2021). Pengaruh dosis Dan Lama Pemberian Ekstrak Daun asam Jawa (*Tamarindus indica* linn) Terhadap Homa-B Pada Tikus model diabetes mellitus TIPE 2 the effect of tamarind leaf (*Tamarindus indica* Linn) extract on homa- β in rats with type 2 diabetes mellitus model. *Media Gizi Indonesia*, 16(3), 267. <https://doi.org/10.20473/mgi.v16i3.267-272>
- Oduwole, O. O., Huhtaniemi, I. T., & Misrahi, M. (2021). The roles of luteinizing hormone, follicle-stimulating hormone and testosterone in spermatogenesis and folliculogenesis revisited. In *International Journal of Molecular Sciences* (Vol. 22, Issue 23). MDPI. <https://doi.org/10.3390/ijms222312735>
- Park, Y. J., & Pang, M. G. (2021). Mitochondrial functionality in male fertility: From spermatogenesis to fertilization. In *Antioxidants* (Vol. 10, Issue 1, pp. 1–27). MDPI. <https://doi.org/10.3390/antiox10010098>
- 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>
- Razali, N. , M.-J. S. , A.-M. A. F. , S. S. , & A. A. (2014). Effects of various solvents on the extraction of antioxidant phenolics from the leaves, seeds, veins and skins of *T. indica* L *Food Chemistry*, 131(2).
- Rakjumar M. (2017) Diabetes-induced testicular dysfunction correction by hydromethanolic extract of *Tamarindus indica* Linn. seed in male albino rat. *International Journal of Green Pharmacy*. doi:https://www.researchgate.net/publication/323119560_Diabetes-induced_testicular_dysfunction_correction_by_hydromethanolic_extract_of_Tamarindus_indica_Linn_seed_in_male_albino_rat
- Rinata, E. (2020). *Buku Ajar Genetika Dan Biologi Reproduksi*.
- Rotondo, J. C., Lanzillotti, C., Mazziotta, C., Tognon, M., & Martini, F. (2021). Epigenetics of Male Infertility: The Role of DNA Methylation. In *Frontiers*

in *Cell and Developmental Biology* (Vol. 9). Frontiers Media S.A.
<https://doi.org/10.3389/fcell.2021.689624>

Salma Hardiani, R., Gunadi, A., Praharani, D., Parnaadji, R., Fatimatuzzahro, N., Kedokteran Gigi, F., Jember, U., Prostodonsia, B., Periodonsia, B., Biomedik, B., Praharani Fakultas Kedokteran Gigi, D., & Jember Jalan Kalimantan, U. (2023). *Potensi Ekstrak Daun Asam Jawa (Tamarindus indica L) dalam Menghambat Pertumbuhan Bakteri Streptococcus mutans pada Resin Akrilik Heat-cured (Potency of Tamarind Leaf Extract (Tamarindus indica L) in Inhibiting the Growth of Streptococcus mutans Bacteria on Heat-cured Acrylic Resin)*.

Shami, A. N., Zheng, X., Munyoki, S. K., Ma, Q., Manske, G. L., Green, C. D., Sukhwani, M., Orwig, K. E., Li, J. Z., & Hammoud, S. S. (2020). Single-Cell RNA Sequencing of Human, Macaque, and Mouse Testes Uncovers Conserved and Divergent Features of Mammalian Spermatogenesis. *Developmental Cell*, 54(4), 529-547.e12.
<https://doi.org/10.1016/j.devcel.2020.05.010>

Sherwood, L. (2016). *From Cells to System (9th. Ed)*. Cengage Learning.

Sosa, d. (2020). *Chances of getting pregnant with Teratozoospermia. Invitra*.

Sugiantari, I. A. P., Suaskara, I. B. M., & Suarni, N. M. R. (2020). Jumlah Total Spermatozoa Dan Ketebalan Tubulus Seminiferus Tikus Putih Jantan Setelah Pemberian Seduhan Daun Kelor (*Moringa oleifera* L.). *Metamorfosa: Journal of Biological Sciences*, 7(2), 97.
<https://doi.org/10.24843/metamorfosa.2020.v07.i02.p13>

Sunarto, W. N. , & N. A. H. (2020). *Modul Ajar Anatomi Fisiologi. Prodi Kebidanan Magetan Poltekkes Kemenkes Surabaya*.

Sundaram, M. S., Hemshekhar, M., Santhosh, M. S., Paul, M., Sunitha, K., Thushara, R. M., Naveenkumar, S. K., Naveen, S., Devaraja, S., Rangappa, K. S., Kemparaju, K., & Girish, K. S. (2015). Tamarind seed (*Tamarindus indica*) extract ameliorates adjuvant-induced arthritis via regulating the mediators of cartilage/bone degeneration, inflammation and oxidative stress. *Scientific Reports*, 5. <https://doi.org/10.1038/srep11117>

Tortora, G. J., & Grabowski, S. R. (2014). *Principle of Anatomy and Physiology* (14th Ed). John Wiley & amp.

Widhi Kusuma Wardhana, E. H. (2020). Potensi Ekstrak Daun Kirinyuh (*Chromolaena odorata* L.) Terhadap Perbaikan Gambaran Histopatologi Perlemakan Hati Pada Tikus Putih (*Rattus norvegicus*) Dengan Dislipidemia Sebuah Systematic Literature Review. *Potensi Ekstrak Daun Kirinyuh*

(Chromolaena Odorata L.) Terhadap Perbaikan Gambaran Histopatologi Perlemakan Hati Pada Tikus Putih (Rattus Norvegicus) dengan dislipidemia sebuah systematic literature review.

- Wiyandani AM. (2016). *Uji Toksisitas Teratogenik Ekstrak Etanol Daun Asam Jawa (Tamarindus indica Linn) Terhadap Tikus (Rattus norvegicus)* (Vol. 12, Issue 1).
- Yara Cantika, C. F. Y. S. (2019). Pengaruh Pemberian Ekstrak Buah Naga Merah (*Hylocereus polyrhizus*) Terhadap Gambaran Spermatogenesis Tikus Putih (*Rattus norvegicus*) Galur Wistar yang Diinduksi Pakan Tinggi Lemak. *Jurnal Profesi Medika: Jurnal Kedokteran Dan Kesehatan*.
- Ye, W., Luo, C., Huang, J., Li, C., Liu, Z., & Liu, F. (2022). Gestational diabetes mellitus and adverse pregnancy outcomes: systematic review and meta-analysis. In *The BMJ*. BMJ Publishing Group. <https://doi.org/10.1136/bmj-2021-067946>
- Zhang, T., Sun, P., Geng, Q., Fan, H., Gong, Y., Hu, Y., Shan, L., Sun, Y., Shen, W., & Zhou, Y. (2022). Disrupted spermatogenesis in a metabolic syndrome model: The role of vitamin A metabolism in the gut–testis axis. *Gut*, 71(1), 78–87. <https://doi.org/10.1136/gutjnl-2020-323347>