

DAFTAR PUSTAKA

- Ali Redha, A. *et al.* (2021) ‘Novel insights on anti-obesity potential of the miracle tree, *Moringa oleifera*: A systematic review’, *Journal of Functional Foods*, 84, p. 104600. Available at: <https://doi.org/10.1016/j.jff.2021.104600>.
- Ayala, A., Muñoz, M.F. and Argüelles, S. (2014) ‘Lipid peroxidation: Production, metabolism, and signaling mechanisms of malondialdehyde and 4-hydroxy-2-nonenal’, *Oxidative Medicine and Cellular Longevity*, 2014. Available at: <https://doi.org/10.1155/2014/360438>.
- Butterfield, D.A. and Halliwell, B. (2019) ‘Oxidative stress, dysfunctional glucose metabolism and Alzheimer disease’, *Nature Reviews Neuroscience*, 20(3), pp. 148–160. Available at: <https://doi.org/10.1038/s41583-019-0132-6>.
- Crasan, I.M. *et al.* (2025) ‘Metaflammation’s Role in Systemic Dysfunction in Obesity: A Comprehensive Review’, *International Journal of Molecular Sciences*, 26(21), pp. 1–56. Available at: <https://doi.org/10.3390/ijms262110445>.
- Duranti, G. *et al.* (2021) ‘*Moringa oleifera* leaf extract upregulates nrf2/ho-1 expression and ameliorates redox status in c2c12 skeletal muscle cells’, *Molecules*, 26(16). Available at: <https://doi.org/10.3390/molecules26165041>.
- Dzuvor, C.K.O. *et al.* (2022) ‘Bioactive components from *Moringa oleifera* seeds: production, functionalities and applications—a critical review’, *Critical Reviews in Biotechnology*, 42(2), pp. 271–293. Available at: <https://doi.org/10.1080/07388551.2021.1931804>.
- Gal, Z. *et al.* (2024) ‘New Evidence for the Role of the Blood-Brain Barrier and Inflammation in Stress-Associated Depression: A Gene-Environment Analysis Covering 19,296 Genes in 109,360 Humans’, *International Journal of Molecular Sciences*, 25(20). Available at: <https://doi.org/10.3390/ijms252011332>.

- ‘Glia - 2020 - Robb - The metabolic response to inflammation in astrocytes is regulated by nuclear factor-kappa B signaling.pdf’ (no date).
- Guillemot-Legris, O. and Muccioli, G.G. (2017) ‘Obesity-Induced Neuroinflammation: Beyond the Hypothalamus’, *Trends in Neurosciences*, 40(4), pp. 237–253. Available at: <https://doi.org/10.1016/j.tins.2017.02.005>.
- Jin, W. *et al.* (2023) ‘Hypolipidemic effect and molecular mechanism of ginsenosides: a review based on oxidative stress’, *Frontiers in Pharmacology*, 14(April), pp. 1–21. Available at: <https://doi.org/10.3389/fphar.2023.1166898>.
- Lin, X. and Li, H. (2021) ‘Obesity: Epidemiology, Pathophysiology, and Therapeutics’, *Frontiers in Endocrinology*, 12(September), pp. 1–9. Available at: <https://doi.org/10.3389/fendo.2021.706978>.
- McKernan, K. *et al.* (2020) ‘Role of TLR4 in the induction of inflammatory changes in adipocytes and macrophages’, *Adipocyte*, 9(1), pp. 212–222. Available at: <https://doi.org/10.1080/21623945.2020.1760674>.
- Nahar, S. *et al.* (2016) ‘Antiobesity activity of Moringa oleifera leaves against high fat diet-induced obesity in rats’, *International Journal of Basic and Clinical Pharmacology*, 2014, pp. 1263–1268. Available at: <https://doi.org/10.18203/2319-2003.ijbcp20162427>.
- Pirillo, A. *et al.* (2021) ‘Global epidemiology of dyslipidaemias’, *Nature Reviews Cardiology*, 18(10), pp. 689–700. Available at: <https://doi.org/10.1038/s41569-021-00541-4>.
- Pirozzi, C. *et al.* (2024) ‘Body and mind: how obesity triggers neuropsychiatric and neurodegenerative disorders’, *Frontiers in Psychiatry*, 15(January), pp. 1–5. Available at: <https://doi.org/10.3389/fpsy.2024.1524555>.
- Rachmi, C.N., Li, M. and Alison Baur, L. (2017) ‘Overweight and obesity in Indonesia: prevalence and risk factors—a literature review’, *Public Health*, 147, pp. 20–29. Available at:

<https://doi.org/10.1016/j.puhe.2017.02.002>.

Rathore, J. and Das, C.R. (2022) 'Moringa oleifera: A review of phytochemicals constituents and medical properties as a future source of new drugs', *International journal of health sciences*, 6(April), pp. 6952–6976.

Sagar A Sarode *et al.* (2023) 'Moringa oleifera: phytochemistry, pharmacology. gsc biological and pharmaceutical sciences', *GSC Biological and Pharmaceutical Sciences*, 24(3), pp. 041–055. Available at: <https://doi.org/10.30574/gscbps.2023.24.3.0352>.

Schmitt, L.O. and Gaspar, J.M. (2023) 'Obesity-Induced Brain Neuroinflammatory and Mitochondrial Changes', *Metabolites*, 13(1). Available at: <https://doi.org/10.3390/metabo13010086>.

Sies, H. and Jones, D.P. (2020) 'Reactive oxygen species (ROS) as pleiotropic physiological signalling agents', *Nature Reviews Molecular Cell Biology*, 21(7), pp. 363–383. Available at: <https://doi.org/10.1038/s41580-020-0230-3>.

Thadeus, M.S. *et al.* (2024) 'Moringa oleifera fruit extract as a potential antioxidant against liver injury by 2-Nitropropane induction in obese male mice model: pre-clinical study', *F1000Research*, 12, pp. 1–16. Available at: <https://doi.org/10.12688/f1000research.121695.2>.

Le Thuc, O. and García-Cáceres, C. (2024) 'Obesity-induced inflammation: connecting the periphery to the brain', *Nature Metabolism*, 6(7), pp. 1237–1252. Available at: <https://doi.org/10.1038/s42255-024-01079-8>.

Tsikakos, D. (2017) 'Assessment of lipid peroxidation by measuring malondialdehyde (MDA) and relatives in biological samples: Analytical and biological challenges', *Analytical Biochemistry*, 524, pp. 13–30.

Available at: <https://doi.org/10.1016/j.ab.2016.10.021>.

Vuković, M. *et al.* (2026) ‘Neurometabolic and Neuroinflammatory Consequences of Obesity: Insights into Brain Vulnerability and Imaging-Based Biomarkers’, *International Journal of Molecular Sciences*, 27(2), p. 958. Available at: <https://doi.org/10.3390/ijms27020958>.