

DAFTAR PUSTAKA

- Alcaïs, A. *et al.* (2000) 'Granulomatous reaction to intradermal injection of lepromin (Mitsuda reaction) is linked to the human NRAMP1 gene in Vietnamese leprosy sibships', *Journal of Infectious Diseases*, 181(1), pp. 302–308. doi: 10.1086/315174.
- Amsyah, U. K. *et al.* (2019) 'Expression of IL-10 in A.actinomycetemcomitans induced rat treated by Purple Miana Leaves', *Biomedical and Pharmacology Journal*, 12(4), pp. 2099–2104. doi: 10.13005/bpj/1845.
- Armitage, K. and Woodhead, M. (2007) 'New guidelines for the management of adult community-acquired pneumonia', *Current Opinion in Infectious Diseases*, 20(2), pp. 170–176. doi: 10.1097/QCO.0b013e3280803d70.
- Armstrong, G. L., Conn, L. A. and Pinner, R. W. (1999) 'Trends in infectious disease mortality in the United States during the 20th century', *Journal of the American Medical Association*, 281(1), pp. 61–66. doi: 10.1001/jama.281.1.61.
- Bachman, M. A. *et al.* (2011) 'Klebsiella pneumoniae Yersiniabactin Promotes Respiratory Tract Infection through Evasion of Lipocalin 2', *Infection and Immunity*, 79(8), pp. 3309–3316. doi: 10.1128/iai.05114-11.
- Bengoechea, J. A. and Sa Pessoa, J. (2019) 'Klebsiella pneumoniae infection biology: Living to counteract host defences', *FEMS Microbiology Reviews*, 43(2), pp. 123–144. doi: 10.1093/femsre/fuy043.
- Blackwell, J. M. *et al.* (2000) 'Understanding the multiple functions of Nramp1', *Microbes and Infection*, 2(3), pp. 317–321. doi: 10.1016/S1286-4579(00)00295-1.
- Cai, W. *et al.* (2016) 'Synergistic effects of baicalein with cefotaxime against Klebsiella pneumoniae through inhibiting CTX-M-1 gene expression', *BMC Microbiology*, 16(1), pp. 1–9. doi: 10.1186/s12866-016-0797-1.
- Canonne-Hergaux, F. *et al.* (2002) 'Expression and subcellular localization of NRAMP1 in human neutrophil granules', *Blood*, 100(1), pp. 268–275. doi: 10.1182/blood.V100.1.268.
- Cellier, M. F. M. (2012) 'Current Topics in Innate Immunity II', 946, pp. 335–351. doi: 10.1007/978-1-4614-0106-3.
- Chastre, J. and Fagon, J. (2001) 'State of the Art Ventilator-associated

Pneumonia', *Critical Care Medicine*, 1997(23), pp. 867–903. doi: 10.1164/rccm.2105078.

- Chen, P.-Y. *et al.* (2016) 'Systematic review with meta-analysis: the efficacy of levofloxacin triple therapy as the first- or second-line treatments of *Helicobacter pylori* infection', *Alimentary Pharmacology & Therapeutics*, 44(5), pp. 427–437. doi: 10.1111/apt.13712.
- Correa, M. A. *et al.* (2017) 'Slc11a1 (Nramp-1) gene modulates immune-inflammation genes in macrophages during pristane-induced arthritis in mice', *Inflammation Research*, 66(11), pp. 969–980. doi: 10.1007/s00011-017-1077-8.
- Cushnie, T. P. T. and Lamb, A. J. (2005) 'Antimicrobial activity of flavonoids', *International Journal of Antimicrobial Agents*, 26(5), pp. 343–356. doi: 10.1016/j.ijantimicag.2005.09.002.
- Dar, M. A. *et al.* (2018) 'Expression kinetics of natural resistance associated macrophage protein (NRAMP) genes in *Salmonella Typhimurium*-infected chicken', *BMC Veterinary Research*, 14(1), pp. 1–11. doi: 10.1186/s12917-018-1510-4.
- Depkes RI (2005) *Pharmaceutical Care Untuk Penyakit Infeksi Saluran Pernapasan*,. Jakarta: Departemen Kesehatan Republik Indonesia.
- Diane E. Handy, Rita Castro, J. L. (2011) '基因的改变 NIH Public Access', *Bone*, 23(1), pp. 1–7. doi: 10.1161/CIRCULATIONAHA.110.956839.
- Diaz-Ochoa, V. E. *et al.* (2014) 'Transition metal ions at the crossroads of mucosal immunity and microbial pathogenesis', *Frontiers in Cellular and Infection Microbiology*, 4(January), pp. 1–10. doi: 10.3389/fcimb.2014.00002.
- Ding, X. *et al.* (2014) 'Polymorphism, expression of natural resistance-associated macrophage protein 1 encoding gene (NRAMP1) and its association with immune traits in pigs', *Asian-Australasian Journal of Animal Sciences*, 27(8), pp. 1189–1195. doi: 10.5713/ajas.2014.14017.
- Doern, G. V. *et al.* (1998) 'Prevalence of Antimicrobial Resistance Among Respiratory Tract Isolates of *Streptococcus pneumoniae* in North America: 1997 Results from the SENTRY Antimicrobial Surveillance Program', *Clinical Infectious Diseases*, 27(4), pp. 764–770. doi: 10.1086/514953.
- Dunstan, S. J. *et al.* (2002) 'Typhoid Fever and Genetic Polymorphisms at the Natural Resistance–Associated Macrophage Protein 1', *The Journal of Infectious Diseases*, 183(7), pp. 1156–1160. doi: 10.1086/319289.

- Efendi, Z. (2003) 'Daya Fagositosis Makrofag pada Jaringan Longgar Tubuh', *USU Digital Library*, pp. 1–4.
- Faisal, F. *et al.* (2014) 'Penilaian Respons Pengobatan Empiris pada Pasien Rawat Inap dengan Pneumonia Komunitas Evaluation of Empirical Treatment Response in Hospitalized Patient Community Acquired Pneumonia', *J Respir Indo*, 34(2), pp. 60–70.
- Farhadi, F. *et al.* (2019) 'Antibacterial activity of flavonoids and their structure–activity relationship: An update review', *Phytotherapy Research*, 33(1), pp. 13–40. doi: 10.1002/ptr.6208.
- Farida, H. *et al.* (2015) 'International Journal of Infectious Diseases Viruses and Gram-negative bacilli dominate the etiology of community-acquired pneumonia in Indonesia , a cohort study', 38, pp. 101–107. doi: 10.1016/j.ijid.2015.07.023.
- FINE, P. E. M. *et al.* (2018) 'Large-Scale Candidate Gene Study of Tuberculosis Susceptibility in the Karonga District of Northern Malawi', *The American Journal of Tropical Medicine and Hygiene*, 71(3), pp. 341–349. doi: 10.4269/ajtmh.2004.71.341.
- Fish, D. N. and Chow, A. T. (1997) 'The Clinical Pharmacokinetics of Levofloxacin', *Clinical Pharmacokinetics*, 32(2), pp. 101–119. doi: 10.2165/00003088-199732020-00002.
- Forbes, J. R. and Gros, P. (2001) 'Divalent-metal transport by NRAMP proteins at the interface of host-pathogen interactions', *Trends in Microbiology*. doi: 10.1016/S0966-842X(01)02098-4.
- Franklin, G. A. *et al.* (2003) 'A novel model of pneumonia from intraperitoneal injection of bacteria', *American Journal of Surgery*, 186(5), pp. 493–499. doi: 10.1016/j.amjsurg.2003.07.012.
- Gomez, M. A. *et al.* (2007) 'NRAMP-1 expression modulates protein-tyrosine phosphatase activity in macrophages: Impact on host cell signaling and functions', *Journal of Biological Chemistry*, 282(50), pp. 36190–36198. doi: 10.1074/jbc.M703140200.
- Govoni, G. and Gros, P. (1998) 'Macrophage NRAMP1 and its role in resistance to microbial infections', *Inflammation Research*, 47(7), pp. 277–284. doi: 10.1007/s000110050330.
- Gruenheid, S. *et al.* (2002) ' Natural Resistance to Infection with Intracellular Pathogens: The Nramp1 Protein Is Recruited to the Membrane of the

Phagosome', *The Journal of Experimental Medicine*, 185(4), pp. 717–730. doi: 10.1084/jem.185.4.717.

- Gruenheid, S. and Gros, P. (2000) 'Genetic susceptibility to intracellular infections: Nramp1, macrophage function and divalent cations transport', *Current Opinion in Microbiology*, 3(1), pp. 43–48. doi: 10.1016/S1369-5274(99)00049-1.
- Gunawan and Sulistia, G. (2009) *Farmakologi dan Terapi*. Jakarta: Balai Penerbitan Fakultas Kedokteran, Universitas Indonesia.
- Gurmeet Singh, S. G. W. (2018) 'Pattern of bacterial and fungal pathogen in patients with high risk for invasive fungal disease in an Indonesian tertiary care hospital: an observational study', 8688, pp. 1–12. doi: 10.11604/pamj.2018.29.60.11931.
- Hatta, M. *et al.* (2017) 'Expression of mRNA IL-17F and sIL-17F in atopic asthma patients', *BMC Research Notes*, 10(1), pp. 1–5. doi: 10.1186/s13104-017-2517-9.
- Hurst, M. *et al.* (2002) 'Levofloxacin', *Drugs*, 62(14), pp. 2127–2167. doi: 10.2165/00003495-200262140-00013.
- J.E., C. J. *et al.* (2002) 'Intrapulmonary pharmacokinetics of linezolid', *Antimicrobial Agents and Chemotherapy*, 46(5), pp. 1475–1480. doi: 10.1128/AAC.46.5.1475.
- Jabado, N. *et al.* (2000) 'Natural resistance to intracellular infections: natural resistance-associated macrophage protein 1 (Nramp1) functions as a pH-dependent manganese transporter at the phagosomal membrane.', *The Journal of experimental medicine*, 192(9), pp. 1237–1248. doi: 10.1084/jem.192.9.1237.
- Juttukonda, L. J., Chazin, W. J. and Skaar, E. P. (2016) 'Acinetobacter baumannii coordinates urea metabolism with metal import to resist host-mediated metal limitation', *mBio*, 7(5), pp. 1–11. doi: 10.1128/mBio.01475-16.
- Kak, G., Raza, M. and Tiwari, B. K. (2018) 'Interferon-gamma (IFN- γ): Exploring its implications in infectious diseases', *Biomolecular Concepts*, 9(1), pp. 64–79. doi: 10.1515/bmc-2018-0007.
- Karo, M. *et al.* (2018) 'Effects of miana (*Coleus scutellarioides* (L) Benth) to expression of mRNA IL-37 in Balb/c mice infected *Candida albicans*', *Pharmacognosy Journal*, 10(1), pp. 16–19. doi: 10.5530/pj.2018.1.3.
- Karo, M. B. *et al.* (2018) 'IgM antibody and colony fungal load impacts of orally administered ethanol extract of *Plectranthus scutellarioides* on mice with

systemic candidiasis', *Journal of Pharmacy and Pharmacognosy Research*, 6(1), pp. 27–34.

- Katzung, B. (2004) *Farmakologi Dasar dan Klinik*. 3rd edn. Jakarta.
- Kaufmann, S. H. E. and Dorhoi, A. (2016) 'Molecular Determinants in Phagocyte-Bacteria Interactions', *Immunity*, 44(3), pp. 476–491. doi: 10.1016/j.immuni.2016.02.014.
- Kementerian Kesehatan RI Badan Penelitian dan Pengembangan (2018) 'Hasil Utama Riset Kesehatan Dasar', *Kementerian Kesehatan Republik Indonesia*, pp. 1–100. Available at: <http://www.depkes.go.id/resources/download/informasi/hasil-risikesdas-2018.pdf>.
- KG, B. (2002) *Imunologi Dasar Edisi 5*. 5th edn. Jakarta: Balai Penerbit Fakultas Kedokteran Universitas Indonesia.
- Kitzis, M.-D. *et al.* (1999) 'In-vitro activity of levofloxacin, a new fluoroquinolone: evaluation against *Haemophilus influenzae* and *Moraxella catarrhalis*', *Journal of Antimicrobial Chemotherapy*, 43(suppl_3), pp. 21–26. doi: 10.1093/jac/43.suppl_3.21.
- Kollef, M. H. (2005) 'The importance of antimicrobial resistance in hospital-acquired and ventilator-associated pneumonia', *Current Anaesthesia and Critical Care*, 16(4), pp. 209–219. doi: 10.1016/j.cacc.2005.11.008.
- Kresno, S. B. (2001) *Imunologi : Prosedur Diagnosis dan Laboratorium*. 4th edn. Jakarta: Fakultas Kedokteran Universitas Indonesia.
- Kumar, S. and Pandey, A. K. (2013) 'フラボノイドレビュー', *TheScientificWorldJournal*, 2013, p. 162750. Available at: <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3891543&tool=pmcentrez&rendertype=abstract>.
- Lee-Sayer, S. S. M. *et al.* (2015) 'The Where, When, How, and Why of Hyaluronan Binding by Immune Cells', *Frontiers in Immunology*, 6. doi: 10.3389/fimmu.2015.00150.
- Lesjak, M. and Srai, S. K. S. (2019) 'Role of dietary flavonoids in iron homeostasis', *Pharmaceuticals*, 12(3), pp. 1–21. doi: 10.3390/ph12030119.
- Lim, W. S. *et al.* (2009) 'British Thoracic Society guidelines for the management of community acquired pneumonia in adults: Update 2009', *Thorax*, 64(SUPPL. 3). doi: 10.1136/thx.2009.121434.
- Liu, J. *et al.* (1995) 'Identification of polymorphisms and sequence variants in the

human homologue of the mouse natural resistance-associated macrophage protein gene.’, *American journal of human genetics*, 56(4), pp. 845–53. Available at:

<http://www.ncbi.nlm.nih.gov/pubmed/7717395><http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=PMC1801220>.

- Liu, W. *et al.* (2004) ‘VDR and NRAMP1 gene polymorphisms in susceptibility to pulmonary tuberculosis among the Chinese Han population: A case-control study’, *International Journal of Tuberculosis and Lung Disease*, 8(4), pp. 428–434.
- Lu, C. *et al.* (2020) ‘Hyaluronic acid-based levofloxacin nanomicelles for nitric oxide-triggered drug delivery to treat bacterial infections’, *Carbohydrate Polymers*, 229, p. 115479. doi: 10.1016/j.carbpol.2019.115479.
- Lukhoba CW, Simmonds MSJ, P. A. (2006) ‘No Title’, *Plectranthus: A review of ethnobotanical uses. Journal of Ethnopharmacology (2006)* doi:10.1016/j.jep.2005.09.011.
- Lutfiyya, M. N. *et al.* (2006) ‘Diagnosis and treatment of community-acquired pneumonia.’, *American family physician*, 73(3), pp. 442–50. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/16477891>.
- Mackintosh, C. G. *et al.* (2000) ‘Genetic resistance to experimental infection with *Mycobacterium bovis* in red deer (*Cervus elaphus*)’, *Infection and Immunity*, 68(3), pp. 1620–1625. doi: 10.1128/IAI.68.3.1620-1625.2000.
- Majhi, A. *et al.* (2014) ‘Levofloxacin-Ceftriaxone Combination Attenuates Lung Inflammation in a Mouse Model of Bacteremic Pneumonia Caused by Multidrug-Resistant *Streptococcus pneumoniae* via Inhibition of Cytolytic Activities of Pneumolysin and Autolysin’, 58(9), pp. 5164–5180. doi: 10.1128/AAC.03245-14.
- Mandell, L. A. *et al.* (2007) ‘Infectious Diseases Society of America/American Thoracic Society Consensus Guidelines on the Management of Community-Acquired Pneumonia in Adults’, *Clinical Infectious Diseases*, 44(Supplement_2), pp. S27–S72. doi: 10.1086/511159.
- Mbaveng, A. T. *et al.* (2015) ‘Antibacterial activity of nineteen selected natural products against multi-drug resistant Gram-negative phenotypes’, *SpringerPlus*, 4(1), pp. 1–9. doi: 10.1186/s40064-015-1645-8.
- Mishra, A. K. *et al.* (2009) ‘Inhibitory activity of Indian spice plant *Cinnamomum zeylanicum* extracts against *Alternaria solani* and *Curvularia lunata*, the

pathogenic dematiaceous moulds', *Annals of Clinical Microbiology and Antimicrobials*, 8, pp. 1–7. doi: 10.1186/1476-0711-8-9.

- Moudgil, K. D. *et al.* (2011) 'Immunomodulation of autoimmune arthritis by herbal CAM', *Evidence-based Complementary and Alternative Medicine*, 2011(January). doi: 10.1155/2011/986797.
- Muangsombut, V. *et al.* (2017) 'Burkholderia pseudomallei Evades Nramp1 (Slc11a1)- and NADPH Oxidase-Mediated Killing in Macrophages and Exhibits Nramp1-Dependent Virulence Gene Expression', *Frontiers in Cellular and Infection Microbiology*, 7(August), pp. 1–13. doi: 10.3389/fcimb.2017.00350.
- N. Botteldoorn°, H. Werbrouck°, N. Rijpens°, L. Herman°, V. Dedain°, J. Depuydt#, S. D. S. (2001) 'Genetic resistance towards Salmonella infections', *Paper and Print Focus*, 15(SPEC. ISS.), p. 31. doi: 10.4324/9781315697307-4.
- Niederman, M. S. (2007) 'Recent advances in community-acquired pneumonia: Inpatient and outpatient', *Chest*, 131(4), pp. 1205–1215. doi: 10.1378/chest.06-1994.
- ningsih, N. *et al.* (2018) 'Effectiveness of Miana Leaves Extract (Coleus Scutellarioides Lamiaceae Benth) on Perineal Rupture Wound Healing in Postpartum Mother', *International Journal of Nursing and Health Science*, 4(3), pp. 1–4. doi: 10.14445/24547484/ijnhs-v4i3p101.
- Núñez, G., Sakamoto, K. and Soares, M. P. (2019) 'Innate Nutritional Immunity', pp. 11–18. doi: 10.4049/jimmunol.1800325.
- Osonga, F. J. *et al.* (2019) 'Antimicrobial activity of a new class of phosphorylated and modified flavonoids', *ACS Omega*, 4(7), pp. 12865–12871. doi: 10.1021/acsomega.9b00077.
- Özçelik, B. *et al.* (2008) 'Antimicrobial Activity of Flavonoids against Extended-Spectrum β -Lactamase (ES β -L)-Producing *Klebsiella pneumoniae*', *Tropical Journal of Pharmaceutical Research*, 7(4), p. 1151. doi: 10.4314/tjpr.v7i4.14701.
- Paczosa, M. (2016) 'Klebsiella pneumoniae: Going on the Offense with a Strong Defense Michelle', *Hamostaseologie*, 27(1), pp. 22–31. doi: 10.1128/MMBR.00078-15.Address.
- Pakadang, S. R. *et al.* (2015) 'Immunomodulator Potential of Miana Leaves (Coleus scutellarioides (L) Benth) in Prevention of Tuberculosis Infection', 3(4), pp. 129–134. doi: 10.12691/ajmr-3-4-2.

- Peracino, B., Buracco, S. and Bozzaro, S. (2013) 'The Nramp (Slc11) proteins regulate development, resistance to pathogenic bacteria and iron homeostasis in *Dictyostelium discoideum*', *Journal of Cell Science*, 126(1), pp. 301–311. doi: 10.1242/jcs.116210.
- Perhimpunan Dokter Paru Indonesia (2003) 'Pneumonia komuniti 1973 - 2003', *Pneumonia Komuniti (Pedoman diagnosis dan penatalaksanaan)*, p. 6.
- Pneumonia, H. (2005) 'Guidelines for the management of adults with hospital-acquired, ventilator-associated, and healthcare-associated pneumonia', *American Journal of Respiratory and Critical Care Medicine*, 171(4), pp. 388–416. doi: 10.1164/rccm.200405-644ST.
- Podschun, R. and Ullmann, U. (1998) 'Klebsiella spp. as Nosocomial Pathogens: Epidemiology, Taxonomy, Typing Methods, and Pathogenicity Factors', *Clinical Microbiology Reviews*, 11(4), pp. 589–603. doi: 10.1128/CMR.11.4.589.
- Podungge, M. R., Salimi, Y. K. and Duengo, S. (2017) 'Isolasi dan Uji Aktivitas Antioksidan Senyawa Flavonoid dari Daun Miana (*Coleus Scutelleroide* Podungge, M.R., Salimi, Y.K. & Duengo, S. 2017. Isolasi dan Uji Aktivitas Antioksidan Senyawa Flavonoid dari Daun Miana (*Coleus Scutelleroides Benth .*)', *Jurnal Entropi*, 1(1), pp. 67–74.
- Prayoga, T. (2019) 'Evaluation of Antibacterial Activity in Nanoparticles Ointment Preparation using Ethanol Extract of Miana Leaves (*Coleus Atropurpureus* (L.) Benth)', *Nanomedicine Research Journal*, 4(2), pp. 69–76. doi: 10.22034/NMRJ.2019.02.003.
- Profil Kesehatan Indonesia (2016) *Profil Kesehatan RI 2015, Profil Kesehatan Indonesia Tahun 2015*. doi: 10.1111/evo.12990.
- Qureshi, S. T., Skamene, E. and Malo, D. (1999) 'Comparative genomics and host resistance against infectious diseases', *Emerging Infectious Diseases*, 5(1), pp. 36–47. doi: 10.3201/eid0501.990105.
- Rahmatullah, M. *et al.* (2012) 'Medicinal Plants Used by Various Tribes of Bangladesh for Treatment of Malaria', 2012. doi: 10.1155/2012/371798.
- Rante Pakadang, S. *et al.* (2015) 'Immunomodulator Potential of Miana Leaves (*Coleus scutellarioides* (L) Benth) in Prevention of Tuberculosis Infection', *American Journal of Microbiological Research*, 3(4), pp. 129–134. doi: 10.12691/ajmr-3-4-2.
- Ridwan, Y., Satrija, F. and Handharyani, E. (2020) 'Toksitas Akut Ekstrak Daun

Miana (*Coleus Blumei* Benth) pada Mencit (*Mus Musculus*)', *Acta VETERINARIA Indonesiana*, 8(1), pp. 55–61. doi: 10.29244/avi.8.1.55-61.

- Rodríguez-Martínez, J. M. *et al.* (2008) 'Activity of ciprofloxacin and levofloxacin in experimental pneumonia caused by *Klebsiella pneumoniae* deficient in porins, expressing active efflux and producing QnrA1', *Clinical Microbiology and Infection*, 14(7), pp. 691–697. doi: 10.1111/j.1469-0691.2008.02020.x.
- Romulo, A., Zuhud, E. A. M. and Rondevaldova, J. (2018) 'Screening of in vitro antimicrobial activity of plants used in traditional Indonesian medicine', *Pharmaceutical Biology*, 56(1), pp. 287–293. doi: 10.1080/13880209.2018.1462834.
- Rukavina, T., Vasiljev, V. and Ticac, B. (2005) 'Proinflammatory cytokines in antilipopolsaccharide immunity against *Klebsiella* infections', *Mediators of Inflammation*, 2005(2), pp. 88–95. doi: 10.1155/MI.2005.88.
- Schentag, J. J. (2000) 'Clinical Pharmacology of the Fluoroquinolones: Studies in Human Dynamic/Kinetic Models', *Clinical Infectious Diseases*, 31(Supplement_2), pp. S40–S44. doi: 10.1086/314059.
- Schroder, K. and Hertzog, P. (2004) 'IFN Gamma an Overview', *Journal of leukocyte biology*, 75(February), pp. 163–189. doi: 10.1189/jlb.0603252.Journal.
- Soares, M. P. and Weiss, G. (2015) 'The Iron age of host – microbe interactions', 16(11), pp. 1482–1500.
- Society., A. T. (1995) 'Hospital-acquired pneumonia in adults. Diagnosis, assessment of severity, initial antimicrobial therapy, and preventive strategies.', *Am J Respir Crit Care Med*, 153, pp. 1711 – 1725.
- Soussy, C.-J. *et al.* (1999) 'In-vitro antibacterial activity of levofloxacin against hospital isolates: a multicentre study', *Journal of Antimicrobial Chemotherapy*, 43(suppl_3), pp. 43–50. doi: 10.1093/jac/43.suppl_3.43.
- Stober, C. B. *et al.* (2007) 'Slc11a1, formerly Nramp1, is expressed in dendritic cells and influences major histocompatibility complex class II expression and antigen-presenting cell function', *Infection and Immunity*, 75(10), pp. 5059–5067. doi: 10.1128/IAI.00153-07.
- TABUCHI, M. *et al.* (2015) 'Functional analysis of the human NRAMP family expressed in fission yeast', *Biochemical Journal*, 344(1), pp. 211–219. doi: 10.1042/bj3440211.
- Tania, L., Sitepu, E. S. and Harahap, Y. (2016) 'Validasi Metode Analisis

Ofloksasin dalam Plasma In Vitro secara Kromatografi Cair Kinerja Tinggi-Fluoresensi Mengacu pada European Medicines Agency Guideline', *Pharmaceutical Sciences and Research*, 3(2), pp. 61–71. doi: 10.7454/psr.v3i2.3518.

- Techau, M. E. *et al.* (2007) 'Evolution of differences in transport function in Slc11a family members', *Journal of Biological Chemistry*, 282(49), pp. 35646–35656. doi: 10.1074/jbc.M707057200.
- Thomson, K. S. *et al.* (1999) 'In-vitro activity of levofloxacin against *Streptococcus pneumoniae* with various levels of penicillin resistance', *Journal of Antimicrobial Chemotherapy*, 43(suppl_3), pp. 15–19. doi: 10.1093/jac/43.suppl_3.15.
- Turi, J. L. *et al.* (2004) 'The iron cycle and oxidative stress in the lung', *Free Radical Biology and Medicine*, 36(7), pp. 850–857. doi: 10.1016/j.freeradbiomed.2003.12.008.
- Varahram, M. *et al.* (2009) 'The VDR and TNF- α gene polymorphisms in Iranian tuberculosis patients: The study on host susceptibility', *Iranian Journal of Clinical Infectious Diseases*, 4(4), pp. 207–213.
- Wadikar, D. D. and Patki, P. E. (2016) 'Coleus aromaticus: a therapeutic herb with multiple potentials', *Journal of Food Science and Technology*, 53(7), pp. 2895–2901. doi: 10.1007/s13197-016-2292-y.
- Wahab, A., Choiriyah, I. and Wilopo, S. A. (2017) 'Determining the Cause of Death : Mortality Surveillance Using Verbal Autopsy in Indonesia', 97(5), pp. 1461–1468. doi: 10.4269/ajtmh.16-0815.
- Wakhidah, A. Z. and Silalahi, M. (no date) 'Etnofarmakologi tumbuhan miana T (Coleus scutellarioides (L.) Benth) pada masyarakat Halmahera Barat, Maluku Utara'.
- Wang, M. *et al.* (2019) 'A review on flavonoid apigenin: Dietary intake, ADME, antimicrobial effects, and interactions with human gut microbiota', *BioMed Research International*, 2019. doi: 10.1155/2019/7010467.
- Wells, B. *et al.* (2009) *Pharmacotherapy Handbook. Seventh Ed, The Annals of Pharmacotherapy*. Seventh Ed. The McGraw-Hill Companies. doi: 10.1345/aph.10237.
- Wyllie, S. *et al.* (2002) 'Disruption of the Nramp1 (also known as Slc11a1) gene in Kupffer cells attenuates early-phase, warm ischemia-reperfusion injury in the

mouse liver', *Journal of Leukocyte Biology*, 72(5), pp. 885–897. doi: 10.1189/jlb.72.5.885.

- Yamane, N. *et al.* (1994) 'Levofloxacin In Vitro Activity: Results from an International Comparative Study with Ofloxacin and Ciprofloxacin', *Journal of Chemotherapy*, 6(2), pp. 83–91. doi: 10.1080/1120009X.1994.11741134.
- Yanto, T. A. *et al.* (2020) 'Molecular and immunological mechanisms of miana leaf (*coleus scutellarioides* [L] benth) in infectious diseases', *Biomedical and Pharmacology Journal*, 13(4), pp. 1607–1618. doi: 10.13005/BPJ/2036.
- Zughaier, S. M., Kandler, J. L. and Shafer, W. M. (2014) 'Neisseria gonorrhoeae modulates iron-limiting innate immune defenses in macrophages', *PLoS ONE*, 9(1). doi: 10.1371/journal.pone.0087688.







