

## DAFTAR PUSTAKA

- Aboul-Maaty, N.A.F. and Oraby, H.A.S., 2019. Extraction of high-quality genomic DNA from different plant orders applying a modified CTAB-based method. *Bulletin of the National Research Centre*, 43(1), pp.1-10.
- Ansari, R., Hughes, C.L. and Husain, K., 2016. Ligand-Mediated Toxicology: Characterization and Translational Prospects. *Translational Toxicology: Defining a New Therapeutic Discipline*, pp.113-137.
- Asif, S., Khan, M., Arshad, M.W. and Shabbir, M.I., 2021. PCR Optimization for Beginners: A Step by Step Guide. *Research in Molecular Medicine*, 9(2), pp.81-102.
- Agu, P.C., Afiukwa, C.A., Orji, O.U., Ezech, E.M., Ofoke, I.H., Ogbu, C.O., Ugwuja, E.I. and Aja, P.M., 2023. Molecular *docking* as a tool for the discovery of molecular targets of nutraceuticals in diseases management. *Scientific Reports*, 13(1), p.13398.
- Baroroh, U., Sin, C.W.Y. and Riasari, H., 2024. EXPLORATION OF POTENTIAL NATURAL COMPOUNDS THROUGH IN SILICO APPROACH: A CASE STUDY ON TOKARAMID COMPOUNDS. *Jurnal Sains dan Teknologi Farmasi Indonesia*, 12(2), pp.86-101.
- Boonyasuppayakorn, S., Saelee, T., Huynh, T.N.T., Hairani, R., Hengphasatporn, K., Loeanurit, N., Cao, V., Vibulakhaophon, V., Siripitakpong, P., Kaur, P. and Chu, J.J.H., 2023. The 8-bromobaicalein inhibited the replication of dengue, and Zika viruses and targeted the dengue polymerase. *Scientific Reports*, 13(1), p.4891.
- Cano, E.A., 2024. In Silico identification of dengue NS5 phytochemical inhibitors as potential antiviral drug compounds via molecular *docking*. *Journal of Plant Biotechnology*, 51(1), pp.100-110.
- Chung, H.S. and Tokmakoff, A., 2006. Visualization and characterization of the infrared active amide I vibrations of proteins. *The Journal of Physical Chemistry B*, 110(6), pp.2888-2898.
- Chomczynski, P. and Sacchi, N., 1987. Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction. *Analytical biochemistry*, 162(1), pp.156-159.
- Dallakyan, S. and Olson, A.J., 2015. Small-molecule library screening by *docking* with PyRx. *Chemical biology: methods and protocols*, pp.243-250.

- Dewi, B.E., Taufiqurrachman, I., Desti, H., Sudiro, M. and Angelina, M., 2020, March. Inhibition mechanism of *Psidium guajava* leaf to dengue virus replication in vitro. In *IOP Conference Series: Earth and Environmental Science* (Vol. 462, No. 1, p. 012034). IOP Publishing.
- Dos Santos Nascimento, I.J., da Silva Santos-Junior, P.F., de Aquino, T.M., de Araujo-Junior, J.X. and da Silva-Junior, E.F., 2021. Insights on Dengue and Zika NS5 RNA-dependent RNA polymerase (RdRp) inhibitors. *European Journal of Medicinal Chemistry*, 224, p.113698.
- Farchiyah, E.L., Arumingtyas, S., Widyarti., Rahayu S. 2016. *Biologi Molekuler: Prinsip dasar analisis*. Jakarta: Penerbit Erlangga.
- Fardilla, F.P., Kusumaningrum, H.P., Wijanarka. 2017. Identifikasi molekuler tanaman pisang rajalawe berdasarkan gen Internal Transcribed Spacer (ITS). *Jurnal Biologi*. 6(1):21-28.
- Fatriansyah, J.F., Rizqillah, R.K. and Yandi, M.Y., 2022. Molecular docking and molecular dynamics simulation of fisetin, galangin, hesperetin, hesperidin, myricetin, and naringenin against polymerase of dengue virus. *Journal of tropical medicine*, 2022(1), p.7254990.
- Fernandes, P. and Cabral, J.M.S., 2007. Phytosterols: applications and recovery methods. *Bioresource technology*, 98(12), pp.2335-2350.
- Fu, Y., Zhao, J. and Chen, Z., 2018. Insights into the molecular mechanisms of protein-ligand interactions by molecular docking and molecular dynamics simulation: a case of oligopeptide binding protein. *Computational and mathematical methods in medicine*, 2018(1), p.3502514.
- García-Alegría, A.M., Anduro-Corona, I., Pérez-Martínez, C.J., Guadalupe Corella-Madueño, M.A., Rascón-Durán, M.L. and Astiazaran-Garcia, H., 2020. Quantification of DNA through the NanoDrop spectrophotometer: methodological validation using standard reference material and Sprague Dawley rat and human DNA. *International journal of analytical chemistry*, 2020(1), p.8896738.
- Goswami, C., Pawase, P.A., Shams, R., Pandey, V.K., Tripathi, A., Rustagi, S. and Darshan, G., 2024. A Conceptual Review on Classification, Extraction, Bioactive Potential and Role of Phytochemicals in Human Health. *Future Foods*, p.100313.
- Green, M.R. and Sambrook, J., 2019. Analysis of DNA by agarose gel electrophoresis. *Cold Spring Harbor Protocols*, 2019(1), pp.pdb-top100388.

- Halim, S.A., Khan, S., Khan, A., Wadood, A., Mabood, F., Hussain, J. and Al-Harrasi, A., 2017. Targeting dengue virus NS-3 helicase by ligand based pharmacophore modeling and structure based virtual screening. *Frontiers in chemistry*, 5, p.88.
- Harapan, H., Michie, A., Yohan, B., Shu, P.Y., Mudatsir, M., Sasmono, R.T. and Imrie, A., 2019. Dengue viruses circulating in Indonesia: A systematic review and phylogenetic analysis of data from five decades. *Reviews in medical virology*, 29(4), p.e2037.
- Higuchi, R., Dollinger, G., Walsh, P. S., & Griffith, R. 1992. Simultaneous amplification and detection of specific DNA sequences. *Bio/Technology*, 10(4), 413-417.
- Hikmatyar, M.F., Royani, J.I., Dasumiati. 2015. Isolasi dan Amplifikasi DNA Keladi Tikus (*Thyponium flagelliform*) Untuk identifikasi Keragaman Genetik, *Jurnal Bioteknologi dan Biosains Indonesia*, 2(2),42-48
- Joshi, D.M., Pathak, S.S., Banmare, S. and Bhaisare, S.S., 2023. Review of Phytochemicals Present in *Psidium guajava* Plant and Its Mechanism of Action on Medicinal Activities. *Cureus*, 15(10).
- Kautsar, R., Rachmawati, Y., Rokhim, S., Sucipto, T.H., Damayanti, M. and Ramadhani, A.H., 2024. In Silico Analysis of Inhibitor Potential of Punicalagin Compound in Pomegranate (*Punica granatum*) Against NS5 DENV-3 Protein. *Indonesian Journal of Tropical and Infectious Disease*, 12(1), pp.24-34.
- Kress, W.J. and Erickson, D.L., 2008. DNA barcodes: genes, genomics, and bioinformatics. *Proceedings of the National Academy of Sciences*, 105(8), pp.2761-2762.
- Kress, W.J. and Erickson, D.L., 2007. A two-locus global DNA barcode for land plants: the coding *rbcl* gene complements the non-coding *trnH-psbA* spacer region. *PLoS one*, 2(6), p.e508.
- Kumari, S.H.A.I.L.I., Arumugam, N.A.G.A.R.A.J.A., Singh, R.A.K.E.S.H., Srivastav, M., Banoth, S., Mithra, A.C., Arun, M.B., Goswami, A.K. and KHAN, A., 2018. Diversity analysis of guava (*Psidium guajava*) germplasm collection. *Indian Journal of Agricultural Sciences*, 88(3), pp.489-497.
- Kusumaningrum, H.P., Budiharjo, A., Suprihadi, A., Eshananda, Y., Fadillah, A. and Pangestuti, D.R., 2018. The characterization of Citrus sp. from Parang Island Karimunjawa based on morphological, DNA barcoding and nutritional analysis. *International Journal of Genetics and Molecular Biology*, 10(3), pp.26-38.

- Kwok, S., Kellogg, D.E., McKinney, N., Spasic, D., Goda, L., Levenson, C. and Sninsky, J.J., 1990. Effects of primer-template mismatches on the polymerase chain reaction: human immunodeficiency virus type 1 model studies. *Nucleic acids research*, 18(4), pp.999-1005.
- Lee, H.C., Lai, K., Lorenc, M.T., Imelfort, M., Duran, C. and Edwards, D., 2012. Bioinformatics tools and databases for analysis of next-generation sequence data. *Briefings in functional genomics*, 11(1), pp.12-24.
- Liana, H.A., 2017. Isolasi DNA Chlorella Sp. dengan metode CTAB dan identifikasi sikuen 18S rDNA (Doctoral dissertation, Universitas Islam Negeri Maulana Malik Ibrahim).
- Lipinski, C.A., 2004. Lead-and drug-like compounds: the rule-of-five revolution. *Drug discovery today: Technologies*, 1(4), pp.337-341.
- Mahalaksmi, A.S., Salam, A.R., Rania, A.P., Ekapratista, B.N., Amalia, R.M., Kusumawati, I. and Widyowati, R., 2024. Potential of Guava (*Psidium guajava* L.) as an Additional Therapy for Dengue Fever.
- Martha, D.P.B., 2023. Identifikasi Fenotip dan Genotip 16s rRNA Bakteri Pendeградasi Plastik dengan Perbedaan Metode Isolasi DNA (Doctoral dissertation, Universitas Islam Negeri Maulana Malik Ibrahim).
- McGarvey, D.J. and Croteau, R., 1995. Terpenoid metabolism. *The plant cell*, 7(7), p.1015.
- Mukesh, B. and Rakesh, K., 2011. Molecular *docking*: a review. *Int J Res Ayurveda Pharm*, 2(6), pp.1746-51.
- Mullis, K. B., & Faloona, F. A. 1986. Specific synthesis of DNA in vitro via a polymerase-catalyzed chain reaction. *Methods in Enzymology*, 155, 335-350.
- Mulyani, Y., Purwanto, A. and Nurruhwati, I., 2011. Perbandingan beberapa metode isolasi DNA untuk deteksi dini koi herpes virus (KHV) pada ikan mas (*Cyprinus carpio* L.). *Jurnal Akuatika*, 2(1).
- Neveu, E., Popov, P., Hoffmann, A., Migliosi, A., Besseron, X., Danoy, G., Bouvry, P. and Grudin, S., 2018. RapidRMSD: rapid determination of RMSDs corresponding to motions of flexible molecules. *Bioinformatics*, 34(16), pp.2757-2765.
- N Powers, C. and N Setzer, W., 2016. An in-silico investigation of phytochemicals as antiviral agents against dengue fever. *Combinatorial chemistry & high throughput screening*, 19(7), pp.516-536.

- Noble, C.G. and Shi, P.Y., 2012. Structural biology of dengue virus enzymes: towards rational design of therapeutics. *Antiviral research*, 96(2), pp.115-126.
- NUGROHO, K., TERRYANA, R.T. and LESTARI, P., 2015. OPTIMASI METODE ISOLASI DNA PADA *Jatropha* spp. *Jurnal Agroteknologi*, 5(2), pp.15-22.
- NURSANTY, R., PADZIL, K.N.B.M., RAMLI, N.I.A.B., MAHYUDIN, N.A., JAAFAR, A.H.B. and RUKAYADI, Y., 2023. Phytochemical analysis of ethanolic *P. guajava* leaves extract using GC-MS and LC-MS. *Biodiversitas Journal of Biological Diversity*, 24(5).
- Omonhinmin, C. and Onuselegu, C., 2022. *rbcL* gene in global molecular data repository. *Data in Brief*, 42.
- Picarazzi, F., Vicenti, I., Saladini, F., Zazzi, M. and Mori, M., 2020. Targeting the RdRp of emerging RNA viruses: the structure-based drug design challenge. *Molecules*, 25(23), p.5695.
- Piironen, V., Lindsay, D.G., Miettinen, T.A., Toivo, J. and Lampi, A.M., 2000. Plant sterols: biosynthesis, biological function and their importance to human nutrition. *Journal of the Science of Food and Agriculture*, 80(7), pp.939-966.
- Rani, S., Sharma, J.R. and Sehrawat, S.K., 2019. Standardization the protocol for high genomic DNA yield and quality for guava cultivars. *Journal of Pharmacognosy and Phytochemistry*, 8(1S), pp.77-79.
- Rizko, N., Kusumaningrum, H.P., Ferniah, R.S., Pujiyanto, S., Erfianti, T., Mawarni, S.N., Rahayu, H.T. and Khairunnisa, D., 2020. Isolasi DNA daun jeruk bali merah (*Citrus maxima* Merr.) dengan modifikasi metode *Doyle and Doyle*. *Berkala bioteknologi*, 3(2).
- Rochmasari, Y., 2011. Studi Isolasi Dan Penentuan Struktur Molekul Senyawa Kimia Dalam Fraksi Netral Daun Jambu Biji Australia (*Psidium guajava* L.). *Universitas Indonesia, Depok*.
- Roslim, D.I., 2019, November. Analysis of matK, rbcL and trnL-trnF intergenic spacer sequences on durik-durik (*Syzygium* sp). In *Journal of Physics: Conference Series* (Vol. 1351, No. 1, p. 012023). IOP Publishing.
- Saiki, R.K., Gelfand, D.H., Stoffel, S., Scharf, S.J., Higuchi, R., Horn, G.T., Mullis, K.B. and Erlich, H.A., 1988. Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase. *Science*, 239(4839), pp.487-491.

- Sambrook, J., E.F. Fritsch, T. Maniatis. 1989. *Molecular Cloning Laboratory Manual* 3rd Ed. New York : Cold Spring Harbour Lab. Press
- Sambrook, J., 2001. Isolation of high-molecular-weight DNA from mammalian cells using proteinase K and phenol. *Molecular cloning: a laboratory manual*, pp.463-470.
- Shimizu, H., Saito, A., Mikuni, J., Nakayama, E.E., Koyama, H., Honma, T., Shirouzu, M., Sekine, S.I. and Shioda, T., 2019. Discovery of a small molecule inhibitor targeting dengue virus NS5 *RNA-dependent RNA polymerase* . *PLoS neglected tropical diseases*, 13(11), p.e0007894.
- Sitther, V., Zhang, D., Harris, D.L., Yadav, A.K., Zee, F.T., Meinhardt, L.W. and Dhekney, S.A., 2014. Genetic characterization of guava (*Psidium guajava* L.) germplasm in the United States using microsatellite markers. *Genetic resources and crop evolution*, 61, pp.829-839.
- Spasov, D.S., 2024. Binding Affinity Determination in Drug Design: Insights from Lock and Key, Induced Fit, Conformational Selection, and Inhibitor Trapping Models. *International Journal of Molecular Sciences*, 25(13), p.7124.
- Sreekanth, G.P., 2023. Perspectives on the current antiviral developments towards *RNA-dependent RNA polymerase* (RdRp) and methyltransferase (MTase) domains of dengue virus non-structural protein 5 (DENV-NS5). *European Journal of Medicinal Chemistry*, 256, p.115416.
- Syafaruddin, S., Randriani, E. and Santoso, T.J., 2011. Efektivitas dan efisiensi teknik isolasi dan purifikasi DNA pada jambu mete. *Journal of Industrial and Beverage Crops*, 2(2), p.141601.
- Tarmidzi, S.N., 2024. Waspada DBD di Musim Kemarau. <https://sehatnegeriku.kemkes.go.id/baca/rilis-media/20240616/0045767/waspada-dbd-di-musim-kemarau/>. 7 September 2024.
- Thakur, S., Yadav, I.S., Jindal, M., Sharma, P.K., Dhillon, G.S., Boora, R.S., Arora, N.K., Gill, M.I.S., Chhuneja, P. and Mittal, A., 2021. Development of genome-wide functional markers using draft genome assembly of guava (*Psidium guajava* L.) cv. Allahabad Safeda to expedite molecular breeding. *Frontiers in Plant Science*, 12, p.708332.
- Tineo, D., Calderon, M.S., Bustamante, D.E. and Oliva, M., 2023. Molecular and morphological analyses of plants with ethnomedicinal uses in northeastern Peru. *Ethnobotany Research and Applications*, 25, pp.1-21.

- Toma, M. and Luchian, V., 2019. Morphological and anatomical study of *Psidium guajava* Linn.(guava)-a new fruit tree and medicinal plant researched in Romania.
- Triani, N., 2020. Isolasi DNA tanaman jeruk dengan menggunakan metode CTAB (cetyl trimethyl ammonium bromide). *G-Tech: Jurnal Teknologi Terapan*, 3(2), pp.221-226.
- Trujillo-Correa, A.I., Quintero-Gil, D.C., Diaz-Castillo, F., Quiñones, W., Robledo, S.M. and Martinez-Gutierrez, M., 2019. In vitro and in silico anti-dengue activity of compounds obtained from *Psidium guajava* through bioprospecting. *BMC complementary and alternative medicine*, 19, pp.1-16.
- Vitlin Gruber, A. and Feiz, L., 2018. Rubisco assembly in the chloroplast. *Frontiers in Molecular Biosciences*, 5, p.24.
- Wirajana, I N., Yuliana, D. A., dan Ratnayani, K. 2013. Isolasi DNA metagenomik dari tanah hutan mangrove Pantai Suwung Bali. *Jurnal Kimia*. 7(1):19-24
- Yuwono. 2005. *Biologi Molekuler*. Jakarta : Penerbit Erlangga.
- Zhang, J., Chua, L.S. and Lynn, D.M., 2004. Multilayered thin films that sustain the release of functional DNA under physiological conditions. *Langmuir*, 20(19), pp.8015-8021.
- Zhu, S., Liu, Q., Qiu, S., Dai, J. and Gao, X., 2022. DNA barcoding: an efficient technology to authenticate plant species of traditional Chinese medicine and recent advances. *Chinese Medicine*, 17(1), p.112.