

## Reference

- [1] K. V. Lakshmi, A. V. Sudhikumar, and E. M. Aneesh, "Larvicidal activity of phytoextracts against dengue fever vector, *Aedes aegypti* - A review," *Plant Sci. Today*, vol.5, no. 4, pp. 167–174, 2018, doi: 10.14719/pst.2018.5.4.407.
- [2] M. Javidfar and S. Ahmadi, "QSAR modelling of larvicidal phytocompounds against *Aedes aegypti* using index of ideality of correlation," *SAR QSAR Environ. Res.*, vol. 31, no. 10, pp. 717–739, 2020, doi: 10.1080/1062936X.2020.1806922.
- [3] J. E Cogan, "Dengue and severe dengue," *Who*, 2018, [Online]. Available: <https://www.who.int/news-room/fact-sheets/detail/dengue-and-severe-dengue>.
- [4] S. Chalom *et al.*, "Utilization of electrocoagulation for the isolation of alkaloids from the aerial parts of *Stemona aphylla* and their mosquitoicidal activities against *Aedes aegypti*," *Ecotoxicol. Environ. Saf.*, vol. 182, no. July, p. 109448, 2019, doi: 10.1016/j.ecoenv.2019.109448.
- [5] P. Yogarajalakshmi *et al.*, "Toxicological screening of marine red algae *Champia parvula* (C. Agardh) against the dengue mosquito vector *Aedes aegypti* (Linn.) and its non-toxicity against three beneficial aquatic predators," *Aquat. Toxicol.*, vol. 222, no. March, p. 105474, 2020, doi: 10.1016/j.aquatox.2020.105474.
- [6] R. Pavela, "Essential oils for the development of eco-friendly mosquito larvicides: A review," *Ind. Crops Prod.*, vol. 76, pp. 174–187, 2015, doi: 10.1016/j.indcrop.2015.06.050.
- [7] R. Pavela, "History, presence and perspective of using plant extracts as commercial botanical insecticides and farm products for protection against insects - A review," *Plant Prot. Sci.*, vol. 52, no. 4, pp. 229–241, 2016, doi: 10.17221/31/2016-PPS.
- [8] M. R. S. Silvério, L. S. Espindola, N. P. Lopes, and P. C. Vieira, "Plant natural products for the control of *Aedes aegypti*: The main vector of important arboviruses," *Molecules*, vol. 25, no. 15, 2020, doi: 10.3390/molecules25153484.
- [9] S. Vilar, G. Cozza, and S. Moro, "Medicinal Chemistry and the Molecular Operating Environment (MOE): Application of QSAR and Molecular Docking to Drug Discovery," *Curr. Top. Med. Chem.*, vol. 8, no. 18, pp. 1555–1572, 2008, doi: 10.2174/156802608786786624.
- [10] M. R. Keyvanpour and M. B. Shirzad, "An Analysis of QSAR Research Based on Machine Learning Concepts," *Curr. Drug Discov. Technol.*, vol. 18, no. 1, pp. 17–30, 2021.
- [11] C. B. R. Santos *et al.*, "A SAR and QSAR study of new artemisinin compounds with antimalarial activity," *Molecules*, vol. 19, no. 1, pp. 367–399, 2014, doi: 10.3390/molecules19010367.
- [12] A. Beheshti, E. Pourbasheer, M. Nekoei, and S. Vahdani, "QSAR modeling of antimalarial activity of urea derivatives using genetic algorithm-multiple linear regressions," *J. Saudi Chem. Soc.*, vol. 20, no. 3, pp. 282–290, 2016, doi: 10.1016/j.jscs.2012.07.019.
- [13] J. P. Doucet, E. Papa, A. Doucet-Panaye, and J. Devillers, "QSAR models for predicting the toxicity of piperidine derivatives against *Aedes aegypti*," *SAR QSAR Environ. Res.*, vol. 28, no. 6, pp. 451–470, 2017, doi: 10.1080/1062936X.2017.1328855.
- [14] M. Fajar Rizqi, R. Rendian Septiawan, and I. Kurniawan, "Implementation of Simulated Annealing-Support Vector Machine on QSAR Study of Indenopyrazole Derivative as Anti-Cancer Agent," *2021 9th Int. Conf. Inf. Commun. Technol. ICoICT 2021*, no. Icidm, pp. 662–668, 2021, doi: 10.1109/ICoICT52021.2021.9527416.
- [15] M. Fajar Rizqi, R. Rendian Septiawan, and I. Kurniawan, "Implementation of Simulated Annealing-Support Vector Machine on QSAR Study of Indenopyrazole Derivative as Anti-Cancer Agent," *2021 9th Int. Conf. Inf. Commun. Technol. ICoICT 2021*, pp. 662–668, 2021, doi: 10.1109/ICoICT52021.2021.9527416.
- [16] H. F. Azmi, K. M. Lhaksmana, and I. Kurniawan, "QSAR Study of Fusidic Acid Derivative as Anti-Malaria Agents by using Artificial Neural Network-Genetic Algorithm," *2020 8th Int. Conf. Inf. Commun. Technol.*, 2020.
- [17] F. Rahman, K. M. Lhaksmana, and I. Kurniawan, "Implementation of Simulated Annealing-Support Vector Machine on QSAR Study of Fusidic Acid Derivatives as Anti-Malarial Agent," *2020 6th Int. Conf. Interact. Digit. Media*, 2020.
- [18] A. Arwansyah, A. R. Arif, G. Syahputra, S. Sukarti, and I. Kurniawan, "Theoretical studies of Thiazolyl-Pyrazoline derivatives as promising drugs against malaria by QSAR modelling combined with molecular docking and molecular dynamics simulation," *SAR QSAR Environ. Res.*, vol. 47, no. 12, pp. 988–1001, 2021.
- [19] I. Kurniawan, R. Wardhani, M. Rosalinda, and N. Ikhsan, "QSAR Study for Prediction of HIV-1 Protease Inhibitor Using the Gravitational Search Algorithm–Neural Network (GSA-NN) Methods," *Lontar Komput. J. Ilm. Teknol. Inf.*, vol. 12, no. 2, pp. 62–77, 2021.
- [20] A. Arwansyah *et al.*, "Molecular modelling on SARS-CoV-2 papain-like protease: an integrated study

- with homology modelling, molecular docking, and molecular dynamics simulations," *SAR QSAR Environ. Res.*, vol. 32, no. 9, pp. 699–718, 2021.
- [21] A. Lambora, K. Gupta, and K. Chopra, "Genetic Algorithm- A Literature Review," *Proc. Int. Conf. Mach. Learn. Big Data, Cloud Parallel Comput. Trends, Prespectives Prospect. Com.* 2019, no. 1998, pp. 380–384, 2019, doi: 10.1109/COMITCon.2019.8862255.
- [22] D. Parbat and M. Chakraborty, "A python based support vector regression model for prediction of COVID19 cases in India," *Chaos, Solitons and Fractals*, vol. 138, pp. 3–7, 2020, doi: 10.1016/j.chaos.2020.109942.
- [23] C. Audet and W. Hare, "Genetic Algorithms," *Springer Ser. Oper. Res. Financ. Eng.*, pp. 57–73, 2017, doi: 10.1007/978-3-319-68913-5\_4.
- [24] I. Ahmad, M. Basher, M. J. Iqbal, and A. Rahim, "Performance Comparison of Support Vector Machine, Random Forest, and Extreme Learning Machine for Intrusion Detection," *IEEE Access*, vol. 6, no. c, pp. 33789–33795, 2018, doi: 10.1109/ACCESS.2018.2841987.
- [25] I. Kurniawan, M. S. Fareza, and P. Iswanto, "Comfa, molecular docking and molecular dynamics studies on cycloguanil analogues as potent antimalarial agents," *Indones. J. Chem.*, vol. 21, no. 1, pp. 66–76, 2021, doi: 10.22146/ijc.52388.