DAFTAR PUSTAKA

Akin, H. M. 2006. Virologi Tumbuhan. Yogyakarta, Kanisius.

Anonim, http://www.quimica.urv.es/~bo/MOLMOD/Mike_Colvin/qc/sm.html, Diakses pada tanggal 16 Juli 2017

Arief, Ihsanul, 2013, Kajian Aktivitas Anti-HIV dan Sitoksisitas Senyawa Turunan Diarilanilina dengan Metode Hubungan Kuantitatif Struktur dan Aktivitas, Tesis, Jurusan kimia FMIPA UGM, Yogyakarta.

Bian, Jinlei., Li, Tinghan., Weng, Tianwei., Wang,Jubo., Chen, Yu., and Li, Zhiyu, 2016, Synthesis, Evaluation and Quantitative Structure–Activity relationship (QSAR) Analysis of Wogonin Derivatives as Cytotoxic Agents, *Bioorg. Med. Chem. Lett.*, 27, 1012–1016.

Bos, L, 1970, Symptoms of Virus Diseases In Plants, Research Institute for Plants Protection,Wageningen.

Buciński, A., Nasal, A., Kaliszan, R., 2000, Pharmacological Classification of Drugs Based on Neural Network Processing of Molecular Modeling Data. *Comb. Chem. High Throughput Screen*. 3, 525–533.

Buciński,A., Socha,A., Wnuk, Małgorzata., Bączek,T., Nowaczyk, A., Jerzy Krysiński., Goryński, Krzysztof., and Koba, Marcin., 2008, Artificial Neural Networks in Prediction of Antifungal Activity of a Series of Pyridine Derivatives Against Candida Albicans, *J. Microbiol. Methods*, 76, 25–29.

Draper, N.R., Smith, H., 1966. Applied Regression Analysis, 2nd Edition, John Wiley and Sons, New York.

Fatimah,Is,. and Nugraha, Jaka., 2007, Analisis Hubungan Kuantitatif Struktur dan Kelarutan Senyawa Aktif Pestisida Organofosfat Pendekatan Model Linear dan Metode Kluster, *Jurnal Ilmu Dasar*., 8, 91-102.

Frimayanti, N., Yam, M.L., Lee, H.B., Othman, R., Zain, S.M., and Abd. Rahman, N., 2011, Validation of Quantitative Structure-Activity Relationship (QSAR) Model for Photosensitizer Activity Prediction, Int. *J. Mol. Sci*., 12, 8626-8644.

Golbraikh, A., Shen, M., Xiao, Z., Xiao, Y., and Lee, K., 2003, Rational Selection of Training and Test Sets for the Development of Validated QSAR Models. *J. Comp.-Aid. Mol. Des.*, 17, 241–253.

Goodarzi, Mohammad., Freitas, Matheus. P., and Ghasemi, Nahid., 2010, QSAR Studies of Bioactivities of 1-(azacyclyl)-3-arylsulfonyl-1H-pyrrolo[2,3-b] pyridines as 5-HT6 Receptor Ligands Using Physicochemical Descriptors and MLR and ANN-Modeling, *Eur. J. Med. Chem*., 45, 3911-3915.

Hornik, K., Stinchcombe, M., White, H., 1989. Multilayer Feed Forward Networks are Universal Approximators. *Neural Netw*., 2, 359–366.

Hu, R., Doucet, J., Delamar, M., and Zhang, R., 2009, QSAR Models for 2-Amino-6-Arylsulfonylbenzonitriles and Congeners HIV-1 Reverse Transcriptase Inhibitors Based on Linear and Nonlinear Regression Methods, *Eur. J. Med. Chem*., 44, 2158–2171.

Jensen, F., 2007, Introduction to Computational Chemistry, Second Edition, John Wiley & Sons, Ltd. Chichester.

Katritzky, Alan R., 1995, Quantum-Chemical Descriptors in QSAR/QSPR Studies, Center for Heterocyclic Compounds, Department of Chemistry, University of Florida.

Kubinyi, H., 1993, QSAR : Hansch Analysis and Related Approaches, VCH Publishers : New York.

Lee, K.W., Kwon, S.Y., Hwang, S., Lee, J.U. dan Kim, H., 1996, Quantitative Structure Activity Relationship (QSAR) Study on C-7 Substituted Quinolone, *Kor. Chem. Soc*. 17, 147-152.

Leonberger,Kimberly., Jackson,Kelly., Smith,Robbie.,Ward Gauthier,Nicole., 2016, Plant Diseases,University of Kentucky College of Agriculture, Food and Environment.

Li, Tianxian., Zhang, Jian., Pan, Jianke., Wu, Zengxue.,Hu, Deyu., and Song, Baoan, 2016, Design, Synthesis, and aAntiviral Activities of 1,5-benzothiazepine Derivatives Containing Pyridine Moiety, *Eur. J. Med. Chem*., 125, 657-662.

Long, Chengwen., Li, Pei., Chen, Meihang., Dong, Liangrun., Hu, Deyu., and Song Baoan, 2015, Synthesis, Anti-Tobacco Mosaic Virus and Cucumber Mosaic Virus Activity, and 3D-QSAR Study of Novel 1,4-pentadien-3-one Derivatives Containing 4-thioquinazoline Moiety, *Eur. J. Med. Chem*., 102, 639-647.

Mishra, M., Mishra, V. K., Senger, P., Pathak, A. K., & Kashaw, S. K., 2013, Exploring QSAR Studies on 4-substituted Quinazoline Derivatives as Antimalarial Compounds for the Development of Predictive Models. *Med. Chem. Res*., 23(3), 1397-1405

Motta, L.F. and Almeida, W.P., 2011. Quantitative Structure-Activity Relationships (QSAR) of A Series of Ketone Derivatives as Anti-Candida Albicans. *Int. J. Drug Disc*.,3(2), 100–117.

Nurhayati, 2012, Virus Penyebab Penyakit Tanaman, Fakultas Pertanian Universitas Sriwijaya.

Podunavac-Kuzmanović, S.O., Cvetković, D.D., and Barna, D.J., 2009, QSAR Analysis of 2-Amino or 2-Methyl-1-Substituted Benzimidazoles Against Pseudomonas aeruginosa, *Int. J. Mol. Sci*., 10, 1670-1682.

Pranowo, H.D. 2000. Kimia Komputasi. Yogyakarta: Pusat Kimia komputasi Indonesia-Austria Universitas Gadjah Mada.

Puzyn, T., Leszczyński, J., and Cronin, M.T., 2010, Recent Advances in QSAR Studies: Methods and Applications, Springer.

Rozaq, A. 2008. Penggunaan Deskriptor Sterik Untuk Analisis HKSA Antimalaria Senyawa Analog 1,10-Fenantrolin Berdasarkan Analisis MLR dan PCR. Skripsi. Yogyakarta : UGM.

Sahu, N.K., Sharma, M.C, Mourya, V., and Kohli, D.V., 2012, QSAR Study of Some Substituted 4-Quinolinyl and 9-Acridinyl Hydrazones as Antimalarial Agents, *Acta Pol. Pharm*., 69,1153–1165.

Sahu, N.K., Sharma, M.C., Mourya, V., and Kohli, D.V., 2014, QSAR Studies of Some Side Chain Modified 7-Chloro-4-Aminoquinolines as Antimalarial Agents, *Arabian J. Chem.*, 7(5), 701-707.

Siswandono and Soekarjo, B, 1995, Kimia Medisinal, cetakan pertama Universitas airlangga Press, Surabaya.

Schlegel.H,Bernhard, Some Practical Suggestions for Optimizing Geometries and Locating Transition States, Department of Chemistry Wayne State University Detroit, Michigan.

Song, J.Soo., Moon, Taesung., Kee D. N, Lee, Jae Kyun., Hahn, Hoh-Gyu., Choic, Eui-Ju., and Yoon, C.N, 2008, Quantitative Structural–Activity Relationship (QSAR) Study for Fungicidal Activities of Thiazoline Derivatives Against Rice Blast, *Bioorg. Med. Chem. Lett.*, 18, 2133–2142.

Syaifudin, Moh.,2015, Analisis Hubungan Kuantitatif Struktur dan Aktivitas Calcium Channel Blocker Senyawa Turunan Dihidropiridin, skripsi Universitas Negeri Semarang.

Tahir, Iqmal., 2014, Kimia Komputasi, Konsep Perhitungan Mekanika Kuantum 2, Universitas Gadjah Mada.

Todeschini, Roberto., Consonni, Viviana., Pavan, Manuela., Mauri, Andrea., Ballabio, Davide., and Alberto Manganaro., 2006, Molecular Descriptors, Milano Chemometrics and QSAR Research Group, Department of Environmental Sciences Department Sciences University of Milano, Italy.

Wibowo, A.E. 2012. Aplikasi Praktis SPSS dalam Penelitian. Yogyakarta : Gava Media.

Wahyuni WS., Dietzgen RG., Hanada K., and Francki RIB. 1992. Serological and Biological Variation Between and Within Subgroup I and II strains of Cucumber Vosaic virus. *Plant Pathol*., 41, 282-297.

Wua, Wenneng,. Chen,Qin,. Tai Anqi,. Guangqi Jiang,. and Guiping Ouyang ., 2015, Synthesis and Antiviral activity of 2-Substituted methylthio-5-(4-amino-2-methylpyrimidin-5-yl)-1,3,4-oxadiazol Derivatives, *Bioorg. Med. Chem. Lett.*, 25, 2243–2246.

Zhao, Wei-Gang., Wang, Jian-Guo., LI, Zheng-Ming and Yang, Zhao., 2005, Synthesis and Antiviral Againts Tobacco Mosaic Virus and 3D-QSAR of α-Subtitued-1,2,3-Thiazoleacetamides, *Bioorg. Med. Chem. Lett.*, 16, 6102-6111.

DESAIN SENYAWA TURUNAN 2-METILTIO-5-(4-AMINO-2-METILPIRIMIDIN-5-IL)-1,3,4-OXADIAZOL SEBAGAI ANTI-TOBACCO MOSAIC VIRUS (TMV) BERDASARKAN HASIL ANALISIS HUBUNGAN KUANTITATIF STRUKTUR-AKTIVITAS (HKSA)

MUHAMAD DAHLAN, Prof. Dr. Mudasir, M.Eng.; Dr. Dwi Siswanta, M. Eng.