

DAFTAR PUSTAKA

- Afandi, M. Ifan, 2018, Pengaruh Jumlah dan Posisi Gugus Metoksi Pada Turunan Benzaldehid Terhadap Produk Sintesis Turunan Dihidropirimidinon (DHPM), *Skripsi*, Fakultas Sains dan Teknologi Universitas Airlangga.
- Alvim, Haline, G.O., Eufanio, N., Junior, S., Neto, Brenno, A.D., 2014, What Do We Know About Multicomponent Reactions? Mechanisms and Trends for Biginelli, Hantzsch, Mannich, Passerini and Ugi MCRs, *RSC Publishing*, 1-19.
- Atwal, K.S., Swanson, B.N., Unger, S.E., Floyd, D.M., Moreland, S., Hedberg, A., Reilly, B.C.O., 1991, Dihydropyrimidine Calcium Channel Blockers, 3 Acid Esters as Orally Effective Antihypertensive Agents, 806–811.
- Bruice, P. Y., 2007, *Organic Chemistry*, Fifth edition, New York.
- Caruso, F., Mendoza, L., Castro, P., Cotoras, M., Aguirre, M., 2011, Antifungal Activity of Resveratrol Against Botrytis Cinerea Is Improved Using 2-Furyl Derivatives, *Elsevier*.
- Cella, R., Stefani, H.A., 2006, Ultrasound-assisted Synthesis of Z and E Stilbenes by Suzuki Cross-coupling Reactions of Organotellurides with Potassium Organotrifluoroborate Salts, *Tetrahedron*, **62**, 5656–5662.
- de Fátima, Â., Braga, T.C., Neto, L. da S., Terra, B.S., Oliveira, B.G.F., da Silva, D.L., Modolo, L. V., 2015, A Mini-review on Biginelli Adducts with Notable Pharmacological Properties, *J. Adv. Res*, **6**, 363–373.
- Devale, T.L., Parikh, J., Miniyar, P., Sharma, P., Shrivastava, B., Murumkar, P., 2017, Dihydropyrimidinone-isatin Hybrids as Novel Non-nucleoside HIV-1 Reverse Transcriptase Inhibitors, *Bioorg. Chem*, **70**, 256–266.
- Donnez, D., Jeandet, P., Clément, C., Courot, E., 2009, Bioproduction of Resveratrol and Stilbene Derivatives by Plant Cells and Microorganisms, *Trends Biotechnol*, **27**, 706–713.
- Fessenden & Fessenden, 1999, *Kimia Organik Edisi Ketiga Jilid 2*, Erlangga, Jakarta, hal 258-261.
- Field, L.D., Li, H. L., Magill, A.M., 2015, Organic Structures from 2D NMR Spectra, John Wiley & Sons, Ltd, West Sussex, England.
- Folkers, K., Johnson, T.B., 1933, Researches on Pyrimidines. CXXXI. The Reduction of 1,2,3,4-Tetrahydropyrimidines, *J. Am. Chem. Soc*, **55**, 1140–1147.
- Goodwin, P.H., Hsiang, T., Erickson, L., 2000, A Comparison of Stilbene and Chalcone Synthases Including a New Stilbene Synthase Gene from *Vitis Riparia* cv, Gloire de Montpellier, *Plant Sci*, **151**, 1–8.

- Hu, E.H., Sidler, D.R., Dolling, U., 1998, One-Pot Condensation Reaction : An Efficient Synthesis of 5-Alkoxy-carbonyl- 4-aryl-3, 4-dihydropyrimidin-2 (1H) -ones Substituted -keto esters and aryl aldehydes. Simple -keto esters , Such as Methyl Acetoacetate , In The Is Substrate Depen, *J. Org. Chem*, **63**, 3454–3457.
- Jin, T., Zhang, S., Li, T., 2002, p-toluenesulfonic Acid-catalyzed Efficient Synthesis of Dihydropyrimidines: Improved High Yielding Protocol for the Biginelli Reaction, *Synth. Commun*, **32**, 1847–1851.
- Kappe, C.O., 2000, Biologically Active Dihydropyrimidones of the Biginelli-type - A literature survey, *Eur. J. Med. Chem*, **35**, 1043–1052.
- Kravchenko, M.A., Verbitskiy, E. V., Medvinskiy, I.D., Rusinov, G.L., Charushin, V.N., 2014, Synthesis and Antituberculosis Activity of Novel 5-styryl-4-(hetero)aryl- pyrimidines Via Combination of the Pd-catalyzed Suzuki Cross-coupling and SNH reactions, *Bioorganic Med. Chem. Lett*, **24**, 3118–3120.
- Kristanti, A. N., Aminah, N. S., Tanjung, M., Kurniadi, B., 2008, *Buku Ajar Fitokimia*, Airlangga University Press, Surabaya, hal 81-82.
- Kumarasamy, D., Roy, G.R., Rocha-Pereira, J., Neyts, J., Nanjappan, S., Maity, S., Mookerje, M., Naesens, L., 2017, Synthesis and In Vitro Antiviral Evaluation of 4-substitued 3,4-dihydropyrimidinones, *Bioorganic & Medicinal Chemistry Letters*, **27**(2), 139-142.
- Kuraitheerthakumaran, A., Pazhamalai, S., Gopalakrishnan, M., 2016, Microwave-assisted Multicomponent Reaction for The Synthesis of 3,4-Dihydropyrimidin-2(1H)-ones and Their Corresponding 2(1H)-thiones Using Lanthanum Oxide as a Catalyst Under Solvent-free Conditions, *Arab. J. Chem*, **9**, S461–S465.
- Lee, S.K., Park, E.J., Lee, E., Min, H.Y., Kim, E.Y., Lee, T., Kim, S., 2004, Styrylheterocycles as a Novel Class Inhibitor of Cyclooxygenase-2-mediated Prostaglandin E2 Production, *Bioorganic Med. Chem. Lett*, **14**, 2105–2108.
- Mayer, T.U., Sugihara, G., May, R.M., 2012, Small Molecule Inhibitor of Mitotic Spindle Bipolarity Identified in a Phenotype-Based Screen 971.
- McNulty, J., Das, P., 2009, Highly Stereoselective and General Synthesis of (E)-Stilbenes and Alkenes by Means of an Aqueous Wittig Reaction, *European J. Org. Chem*, 4031–4035.
- Moradi, L., Tadayon, M., 2017, Green Synthesis of 3,4-Dihydropyrimidinone Using Nano Fe₃O₄@meglumine Sulfonic Acid as a New Efficient Solid Acid Catalyst Under Microwave Irradiation, *Journal of Saudi Chemical Society*, 1-27.
- Nielsen, Arnold, T., Haulihan, William, J., 2011, *The Aldol Condensation*, California.

- Patil, A.D., Kumar, N.V., Kokke, W.C., Bean, M.F., Freyer, A.J., De Brosse, C., Mai, S., Truneh, A., Faulkner, D.J., Carte, B., Breen, A.L., Hertzberg, R.P., Johnson, R.K., Westley, J.W., Potts, B.C.M., 1995, Novel Alkaloids from the Sponge *Batzella* sp.: Inhibitors of HIV gp120-Human CD4 Binding, *J. Org. Chem.*, **60**, 1182–1188.
- Pavia, D.L., Lampman, G.M., Kriz, G.S., Vyvyan, J.R., 2004, Introduction to spectroscopy, Fourth Edition, Brooks/Cole, Cengage Learning, Belmont-California, USA
- Puripat, M., Ramozzi, R., Hatanaka, M., Parasuk, W., Parasuk, V., Morokuma, K., 2015, The Biginelli Reaction Is a Urea-Catalyzed Organocatalytic Multicomponent Reaction, *J. Org. Chem.*, **80**, 6959–6967.
- Rahmania, Z.O.D., 2015, Sintesis *N'*-Benzoil-4-hidroksi-benzohidrazida dan *N'*-(2,4-diklorobenzoil)-4-hidroksi-benzohidrazida Menggunakan Iradiasi Gelombang Mikro, *Skripsi*, Fakultas Farmasi, Universitas Airlangga.
- Rovnyak, G.C., Atwal, K.S., Hedberg, A., Kimball, S.D., Moreland, S., Gougoutas, J.Z., Reilly, B.C.O., Schwartz, J., Malleys, M.F., 1992, Dihydropyrimidine Calcium Channel Blockers, **4**, Basic 3254–3263.
- Salehi, P., Dabiri, M., Zolfigol, M., Fard, M.B., 2003, Silica Sulfuric Acid: an Efficient and Reusable Catalyst for The One-pot synthesis of 3, 4-dihydropyrimidin-2 (1 H)-ones, *Tetrahedron, Lett.*, **44**, 2889–2891.
- Sweet, F., Fissekis, J.D., 1973, On the Synthesis of 3,4-Dihydro-2(1H)-Pyrimidinones and the Mechanism of the Biginelli Reaction, *J. Am. Chem. Soc.*, **95**, 8741–8749.
- Sari, Ria, H.P., 2018, Desain dan Sintesis Senyawa 6-arilfenil-3,4-dihidropirimidinon dan Turunannya, *Tesis*, Fakultas Sains dan Teknologi Universitas Airlangga.
- Zhang, Z., Zhang, L., Duan, X., Yan, X., Yan, Y., Liu, Q., Liu, T., Zhang, G., 2015, Iron-catalyzed Four-member Multicomponent Reaction for Assembly of (E) -6-arylviny-3 , 4-dihydropyrimidin-2 (1 H) -ones, *Tetrahedron*, 1–7.
- Zhou, Z., Wang, P., Lu, M., 2015, Bronsted Acidic Ionic Liquid [C 3 SO 3 HDoim] HSO 4 Catalyzed One-pot Three-component Biginelli-type Reaction : An Efficient and Solvent-free Synthesis of Pyrimidinone Derivatives and Its Mechanistic Study, *Chinese Chem, Lett.*, 3–7.
- Zulqaida, S., 2016, Eksplorasi Metode Sintesis Turunan Dihidropirimidinon Menggunakan Modifikasi Reaksi Biginelli, *Skripsi*, Fakultas Sains dan Teknologi Universitas Airlangga.
- Zulqaida, S., 2017, Desain, Sintesis dan Molecular Docking Senyawa Turunan Dihidropirimidinon sebagai Antikanker. *Tesis*. Fakultas Sains dan Teknologi. Universitas Airlangga.