

## DAFTAR PUSTAKA

- Adelina, S.O., Adelina, E., & Hasriyanty, 2017, Identifikasi Morfologi dan Anatomi Jeruk Lokal (*Citrus* sp.) di Desa Doda dan Desa Lempe Kecamatan Lore Tengah Kabupaten Poso, *e-J. Agrotekbis*, **5(1)**, 58–65.
- Alam, G., Wahyuono, S., Ganjar, I.G., Hakim, L., Timmerman, H., & Verpoorte, R., 2002, Tracheospasmodic Activity of Viteosin-A and Vitexicarpin Isolated from *V. trifolia*, *Planta Med.*, **68 (11)**, 1047-9.
- American Lung Association, 2008, Improving life, One Breath at a Time, *Lung Disease Data*, New York, America.
- Andriani, M., & Defita, A.P., 2014, Hubungan Pengetahuan dan Sikap Ibu Terhadap Kejadian ISPA Pada Balita di Wilayah Kerja Puskesmas Tigo Baleh, *Skripsi*, STIKES Yarsi, Sumatera Barat.
- Badan Penelitian dan Pengembangan Kesehatan, 2013, *Riset Kesehatan Dasar 2013*, Kementerian Kesehatan Republik Indonesia, Jakarta.
- Balsamo, R., Lanata, L., & Egan, C.G., 2010, Mucoactive drugs, *European Respiratory Review*, **19(116)**, 127-133.
- Bansil, R. & Turner, B.S., 2006, Mucin structure, aggregation, physiological functions and biomedical applications, *Current Opinion in Colloid and Interface Science*, **11**, 164-170.
- Bayu, E.S., Aryanti, I., & Kardhinata, E.H., 2015, Identifikasi Karakteristik Morfologis dan Hubungan Kekerabatan Tanaman Jahe (*Zingiber officinale* Rosc.) di Desa Dolok Saribu Kabupaten Simalungun, *Jurnal Online Agroekoteknologi*, **3(3)**, 963-975.
- Belajova, E. & Suhaj, M., 2004, Determination of Phenolic Constituents in Citrus Juices: Method of High Performance Liquid Chromatography, *Food Chemistry*, **86**, 339-343.
- Beery, A.K., 2010, Males still dominate animal studies, *Nature*, 465, 689-690.
- BioTrends, 2016, *Pemanfaatan Obat Tradisional (Herbal) Sebagai Obat Alternatif*, **7(1)**. Pusat Penelitian Bioteknologi LIPI, Jakarta.
- Burick J., Quick, H., & Wilson T., 1997, Medical attributes of *Echinacea* sp- Coneflower available at <http://www.inteme.com/iom/team/n-immune.html> diakses pada 9 Mei 2018 pukul 21.45 WIB.

- Chung, K.F., Widdicombe, J.G., & Boushey, H.A., 2003, *The clinical and pathophysiological challenges of cough*, Blackwell Publishing, Massachusetts, 3-10.
- Chung, K.F. & Pavord, I.D., 2008, prevalence, pathogenesis, and cause of chronic cough, *Lancet*, **371(1)**, 1364-1374.
- Da'i, M., Wulandari, D.R., & Utami, W., 2011, Uji Aktivitas Penangkap Radikal DPPH Analog Kurkumin Siklik dan N-Heterosiklik Monoketon, *Pharmaceutical Journal of Indonesia*, **12(1)**, 19-25.
- Departemen Kesehatan Republik Indonesia, 1989, *Pemanfaatan Tanaman Obat*, Depkes RI, Jakarta.
- Devy, L., 2009, Analisis Keragaman dan Stabilitas Genetik Temulawak (*Curcuma xanthorrhiza* Roxb.) Indonesia, *Tesis*, Sekolah Pascasarjana Institut Pertanian Bogor.
- Direktorat Jendral Pencegahan dan Pengendalian Penyakit, 2016, *Pedoman Pengendalian Infeksi Saluran Pernapasan Akut*, Kementerian Kesehatan Republik Indonesia, Jakarta.
- Engler, H. & Szelenyi, I., 1984, Tracheal Phenol Red Secretion : a New Method for Screening Mucosecretolytic Compounds, *Journal of Pharmacological Methods*, **11**, 151-157.
- Ermianti, 2013, *Penguatan Inovasi Teknologi Mendukung Kemandirian Usaha tani Perkebunan Rakyat*, Balai Penelitian dan Pengembangan Departemen Pertanian Republik Indonesia, Jakarta.
- Gao S., Li P., Yang H., Fangs S., Su W, 2011, Antitussive Effect of Naringin on Experimentally Induced Cough in Guinea Pigs, *Planta Med.*, **77(1)**, 16-21.
- Han, Na., Chang, C., Wang, Yichun, Huang, T., Liu, Z., Yin, J., 2010, The in vivo expectorant and antitussive activity of extract and fractions from *Reineckia carnea*, *Journal of Ethnopharmacology*, **131**, 220-223.
- Haniadka, R., Sidanha, E., Sunita, V., Palatty, P.L., Fayad, R., & Baliga, M.S., 2013, A review of gastroprotective effects of ginger (*Zingiber officinale* Rosc), *Food and Function*, **4**, 845.
- Hassani, H., Ghodsi, M., & Howell, G., 2010, A Not On Standard Deviation And Standard Error, *Teaching Mathematics and Its Application*, **29**, 108-112,
- Hedwiani, W., 2011, Pengaruh Ekstrak Daun Legundi (*Vitex trifolia*, L) dan Rimpang Temulawak (*Curcuma xanthorrhiza*, Roxb) Terhadap Kadar IgE

Total Serum dan Eosinofil Usapan Mukosa Hidung Penderita Rinitis Alergi, *Tesis*, Fakultas Farmasi UGM, Yogyakarta.

Ikawati, Z., 2009, Pengembangan Formula Ekstrak Daun Legundi (*Vitex Trifolia*) terhadap Rimpang Temulawak (*Curcuma xanthorrhiza* Roxb) sebagai Fitofarmaka untuk Antialergi, *Laporan Penelitian*, Fakultas Farmasi, Universitas Gadjah Mada, Yogyakarta.

Ikawati, Z., Hertiani, T., Nugroho, A.K., 2016, Pengembangan Fitofarmaka Berbasis Legundi dan Temulawak untuk Terapi Simptomatik Penyakit Gangguan Pernafasan, *Laporan Penelitian*, Fakultas Farmasi, Universitas Gadjah Mada, Yogyakarta.

Intercontinental Marketing Service, 2014, Global Outlook for Medicines Through 2018, *IMS Institute for Healthcare Informatics*, Parsippany NJ, USA.

Irwin, R.S., Madison J.M., 2006, The diagnosis and treatment of cough, *N Engl J Med*, **34**(3), 1715-21.

Jaykaran, 2010, Mean  $\pm$  SEM or Mean (SD), *Indian Journal of Pharmacology*, **42**(6), 529 – 530.

Jiao HY, Su WW, Liao Y, Zhou Q, Zhu N, He LL, 2015, Therapeutic Effects of Naringin in a Guinea Pig Model of Ovalbumin-induced Cough-Variant Asthma, *Pulm Pharmacol Ther*, **33**, 59-65.

Karlsson, J.A., Sant Ambrogio G. & Widdicombe J.G., 1988, Afferent neural pathways in cough and reflex bronchoconstriction, *J. Appl. Physiol.*, **65**(3), 1007-23.

Kementrian Kesehatan Republik Indonesia, 2017, *Formularium Ramuan Obat Tradisional Indonesia*, Kemenkes RI, Jakarta.

Kim, H. J., Chang, J.H., Yoon., H.J., Kwon, S.H., Bae., J.H., & Kim, K.S., 2016, [6]-Gingerol Suppresses Interleukin-1 $\beta$ -induces MUC5AC gene Expression in Human Airway Epithelial Cells, *American Journal of Rhinology & Allergy*, **23**(4), 385–391.

Lin, B.Q., Li, P.B., Wang, Y.G., Peng, Wei., Wu, Zhon., Su, W.W., & Ji, Hui., 2008, The Expectorant activity of naringenin, *Pulmonary Pharmacology & Therapeutics*, **21**, 259-263.

Liu, H.J., Wang, C.H., & Wang, Y.X., 2011 Validation and Application by HPLC for Simultaneous Determination of Vitexin-2''-O-Glucoside, Vitexin-2''-O-Rhamnoside, Rutin, Vitexin, and Hyperoside, *Journal of Pharmaceutical Analysis*, **1**(4), 291–196.

- Lubis, H., & Hariaji, I., 2017, Ekstrak Buah Legundi (*Vitex Trifolia*) Mampu Menghambat Pembelahan dan Pertumbuhan Sel Tumor Kulit Tikus, *Mutiara Medika*, **17(1)**, 1-5.
- Lyon, R.A., & Hull J.D., 2018, In Vitro pharmacology of ambroxol : Potential serotonic site of action , *Life Science*, **197**, 67-72.
- Malerba, M., & Ragnoli, B., 2008, Amboroxol in the 21<sup>st</sup> century: pharmacological and clinical update, Expert Opin, Drug Metab, *Toxicol*, **4(8)**, 1119-1129.
- Merck, 2015, 107241 | Phenol Red, <http://www.merckmillipore.com/>, diakses pada tanggal 29 Agustus 2018.
- Muhtadi, Suhendi, A., Nurcahyanti, & Sutrisna, E.M., 2014, Uji Praktinik Antihiperurisemia Secara In Vivo Pada Mencit Putih Jantan Galur BALB-C dari Ekstrak Daun Salam (*Syzygium polyanthum* Walp) dan Daun Belimbing Wuluh (*Avverhoa bilimbi* L.), *Biomedika* **6(1)**, 17-2.
- Motilva, V., Lastra, A.D.L., & Martin, M.J., 1994, Ulcer-Protecting Effects of Naringenin of Gastric Lesion Induced by Ethanol in Rat: Role of Endogenous Prostaglandins, *Journal of Pharm Pharmacol*, **46**, 91-94.
- Nadel, J.A., 2013, Mucous hypersecretion and relationship to cough, *Pulmonary Pharmacology & Therapeutics*, **30**, 1-4.
- Pick, E., & Mizel, D., 1981, Rapid microassays for the measurement of superoxide and hydrogen peroxide production by macrophages in culture using an automatic enzyme immunoassay reader, *J. Immunol Methods*, **46(2)**, 211-226.
- Rahardjo, M., 2005, Peluang Pembudidayaan Tanaman Echinacea (*Echinacea purpurea*) di Indonesia, *Indonesian Spices and Medicinal Crops Research Institute*, **4(1)**, 1-10.
- Rahardjo M., 2000, Echinacea Tanaman Obat Introduksi Potensial, *Warta Penelitian dan Pengembangan Tanaman Industri*, **6(2)**, 1-3.
- Rai, S., Mukherjee, K., Mal, M., Wahile, A., Saha, B.P., & Mukerjee, P.K., 2006, Determination of 6-Gingerol in Ginger (*Zingiber officinale*) Using High Performace Thin-Layer Chromatography, *Journal of Separation Science*, **29(15)**, 2292-2295.
- Reddi, B.A.J., 2013, Why Is Saline So Acidic (and Does It Really Matter?), *International Journal of Medical Science*, **10 (6)**, 747-750.

- Rehman R, Akram M, Akhtar N, Jabeen Q, Shah SMA., 2010, *Zingiber officinale* Roscoe (Pharmacological Activity ). *Journal of Medicinal Plant Research*, **5(3)**.
- Rogers, D.F., 2007, Mucoactive Agents for Airway Mucus Hypersecretory Disease, *Respiratory Care*, **52(9)**, 1176–1197.
- Rugayah, R., 1994, Status Taksonomi Jahe Putih dan Jahe Merah, *Floribunda*, **1(14)**, 53-56.
- Setyanto, D, B., 2004, Batuk Kronik pada Anak: masalah dan tata laksana, *Sari Pediatri*, **6(2)**, 64-70.
- Shen, J.G., Chen, Y., Wu, Hao., Nie, Y.C, Lie, P.B., & Su, W.W., 2014, Mucoactive Effects of Naringin in Lipopolysaccharide-induced Acute Lung Injury Mice and Beagle Dogs, *Enviromental Toxicology and Pharmacology*, **38**, 279–287.
- Smith, W.W., & Smith H.W., 1939, Protein Binding of Phenol Red, Didiodrast and Other Substances in Plasma, *J. Clin. Inv.*, **17**, 263-265.
- Stankovic,I., 2004, Curcumin, *Chemical and Technical Assesment (CTA)*,FAO, 61<sup>st</sup> JECFA, 1-8.
- Subositi, D., & Fauzi, 2012, Morphological Variation of Ekinase (*Echinacea purpurea* (L.) Moench) Accesions From Mass Selection Year I on Medicinal Plant and Traditional Medicine Research and Development Ofiice, *Badan Litbang Kesehatan Kementrian Kesehatan RI*, **5(2)**.
- Sudarsono, A. Pudjoarinto, D. Gunawan, S. Wahyuono, I. A. Donatus, M. Dradjad, S. Wibowo ,Ngatidjan., 1996, *Tumbuhan Obat*. Pusat Penelitian Obat Tradisional, Universitas Gajah Mada, Yogyakarta, 154.
- Suekawa, M., Ishige, A., Yuasa, K., Sudo, K., Aburada, M & Hosoya, E., 1984, Pharmacological studies on Ginger, Pharmacological action of punget constituensts, (6)-gingerol and (6)-shogaol, *Journal of Pharmacobiodynamics*, **7(11)**, 836-848.
- Supriyatno, B., 2010, Batuk Kronik pada Anak, *Majalah Kedokteran Indonesia*, **60(6)**, 285-288.
- Suryabrata & Sumadi, 2011. *Metodologi Penelitian*, PT. Raja Grafindo Persada : Jakarta
- Song, K, J., Shin, Y.J., Lee, K.R., Lee, E.J., Suh, Y.S., Kim, K.S., 2015, Expectorant and Antitussive Effect of Hedera helix and Rhizoma coptidis Extracts Mixture, *Yonsei Med Journal*, **56(3)**, 819-824.

- Steven M.E., Ronan A.K., Sourkes R.S., & Boyd E.M., 1943, The Expectorant Action of Cresotes and the Guaiacols, *Can Med Ass*, **48**, 124-127.
- Tjay, T.H., & Rahardja, K., 1978, *Obat-Obat Penting: Khasiat, Penggunaan dan Efek-Efek Sampingnya*, Edisi Keempat, Depkes RI, Jakarta, 487-495.
- Tu, J., Ahmadi, G., & Inthavong, K., 2013, Computation Fluid and Particle Dynamic in the Human Respiratory System, *Biological and Medical Physics*, Biomedical Engineering, Amerika.
- Vedantham, T.N.C., & Subramanian, S.S., 1976, Non-flavonoid Components of *V. trifolia*., *Indian J. Pharmacol.*, **38(1)**, 13-14.
- Wahjudi, T, R.M., & Adrianti., 2016, Tingkat Penerimaan Penggunaan Jamu Sebagai Alternatif Obat Modern, *Masyarakat, Kebudayaan dan Politik*, **29(3)**, 133-145.
- WHO, 2007, *Infection prevention and control of epidemic-and pandemic-prone acute respiratory diseases in health care*. WHO Interim Guidelines, World Health Organization, Geneva.
- Yang, J., LI, Q., Zhou, D., & Kolosov, V.P., 2011, Naringenin attenuates mucous hypersecretion by modulating reactive oxygen species production and inhibiting NF-Kb Activity via EGFR-PI3K-Akt/ERK MAPKinase Signaling in Human Epithelial cells, *Mol Cell Biochem*, **351**, 29– 40.
- Zhang, S.j., Jiang, J.X., Ren, Q.Q., Jia, Y.L., Shen, J., Shen, H-J., Lin, X.X., Lu, H., & Xie, Q.M., 2016, Ambroxol Inhalation Amreliorates LPS-induced Airway Inflammation and Mucus Secretion, *European Journal of Pharmacology*, **775**, 138–148.
- Zhu, Y., Xiaoyong Z., Jianhua Z, Qunfen Z, Yuguo L., Wanxin L., Chunhai F, Qing H., 2012, Cytotoxicity of Phenol Red in Toxicity Assays for Carbon Nanoparticles, *International Journal of Molecular Sciences*, **13**, 12336-12348.
- Zolgharnein, J., Niazi, A., Zadeh, S.A., & Zamani, K., 2010, Determination of Chicoric Acid as a Biomarker in Echinacea Purpurea Cultivated in Iran Using High Performance Liquid Chromatography, *Chinese Medicine*, **1**, 23–27.