

PUSTAKA ACUAN

- Achigan-Dako, E.G., O.E.D.Sogbohossou, and P. 2014. Current knowledge on *Amaranthus* spp.: Research avenues for improved nutritional value and yield in leafy amaranths in sub-Saharan Africa. *Euphytica. e-journal*. 197(3): 303–317.
- Agussalim, A.A., N. Umami, and I.G. S. Budisatria. 2017. Variasi Jenis Tanaman Pakan Lebah Madu Sumber Nektar dan Polen Berdasarkan Ketinggian Tempat di Yogyakarta. *Buletin Peternakan*. 41(4) :448-460.
- Apirin,D., E.Julaeha, M.Dardjan, and A.Cahyanto. 2005. Chemical Composition Of *Citrus* spp. And Oral Antimicrobial Effect Of *Citrus* spp. Peels Essensial Oil Against *Streptococcus mutans*. *Padjadjaran Journal Of Dentistry*.27(1):1-11.
- Arifin,B., and S.Ibrahim. 2018. Struktur, Bioaktivitas Dan Antioksidan Flavonoid. *Jurnal Zarah*. 6(1): 21-29.
- Asra, R. 2015. Serangga Pengunjung pada Perbungaan Jernang Rambai (*Daemonorops draco* (Willd.) Blume). *Jurnal Penelitian Universitas Jambi Seri Sains*. 17(2) : 40-43.
- Bernhoft,A. 2008. *A Brief Review on Bioactive Compounds in Plants*. The Norwegian Academy of Science and Letters. Oslo. p:11-17
- Bonney, R.E. 2012. *Beekeeping : A Practical Guide*. Storey Publishing: USA. p. 50.
- Buchanan, B.B., G.Wilhelm, and L.J. Russel. 2000. *Biochemistry & Molecular Biology of Plants*. John Wiley & Sons. Rockville. p:1250-1252, 1268-1276, 1302-1315.
- Caron, D.M., and L.J. Connor. 2013. *Honey Bee Biology and Beekeeping*. Wicas Press. pp : 139
- Campos,M.G.R., S.Bogdnov, L.Bicudo, T.Szczesna, Y.Mnacebo, C.Frigerio, and F.Ferreira. 2008. Revie Article : Pollen Composition And Standarisation Of Analytical Method. *Journal Of Apicultural Research And Bee World*. 47(2):156-163.
- Cushnie,T.P.T., Benjamart, and J.L.Andrew. 2014. Alkaloids : An Overview of their Antibacterial, antibiotic-enhancing, and antivirulence activities. *International Journal of Antimicrobial Agents*. 44:377-386.
- Cushnie,T.P.T., and A.J.Lamb. 2005. Antimicrobial Activity of Flavonoids. *International Journal of Antimicrobial Agent* 26: 343-356.
- Danaraddi, C.S., Shashidhar, V.K. Basavanagoud, and A.R.S. Bhat. 2009. Nesting Habits and Nest Structure of Stingless Bees , *Trigona iridipennis* Smith at Dhatward, Karnataka. *Karnataka Journal of Agricultural Science*. 22(2) : 310-313.
- Daszynski,DD.M., P.Santhoshkumar, A.S. Phadte, K.K. Sharma, H.A.Zhong, M.F.Lou, and P.F.Kador. 2018. Failure Of Oxysterols Such As Lanosterol To Restore Lens Clarity From Cataracts. *Scientific Reports*. 1: 1-10.
- Devi,J.A.I., and A.K.Muthu .2014. Gas Chromatography-Mass Spectrometry Analysis Of Bioactive Constituents In The Ethanolic Extract Of *Saccharum spontaneum* Linn. *International Journal Of Pharmacy And Pharmaceutical Science*. 6(2):1-23.
- Dewi,S.R., N.Ulya, and B.D.Argo. 2018. Kandungan Flavonoid Dan Aktivitas

- Antioksidan Ekstrak *Plerotus ostreatus*. *Jurnal Rona Teknik Pertanian*. 11(1): 1-13.
- Dhurhanian, C.E., and A. Novianto. 2018. Uji Kandungan Fenolik Total Dan Pengaruhnya Terhadap Aktivitas Antioksidan Dari Berbagai Bentuk Sediaan Sarang Semut (*Myrmecodia pendens*). *Jurnal Farmasi Dan Ilmu Kefarmasian Indonesia*. 5(2):62-68.
- Discover Life. 2019. *Tetragonula laeviceps* (Smith, 1857). Accessed at <https://www.discoverlife.org> on Sunday, April 12th 2020.
- Dunnivant and Ginsbach. 2011. *GC-MS: A Basic Introduction*. Accessed at http://people.whitman.edu/~dunnivfm/C_MS_Ebook/CH1/index.html on Monday, April 6th 2020.
- Efin, A. 2015. *Morphological Characteristics of "Teuweul Omas" (Tetragoluna laeviceps. : Hymenoptera) From West Java*. [Skripsi]. Department of Biology. Faculty of Mathematics and Natural Sciences. Bogor Agricultural University. Bogor.
- Evahelda, E., F. Pratama, N. Malahayati and B. Santoso. 2017. Sifat Fisik dan Kimia Madu dari Nektar Pohon Karet di Kabupaten Bangka Tengah, Indonesia. *AGRITECH*. 37 (4): 363-368.
- Fratini, F., G. Cilia, B. Turchi and A. Felicioli. 2016. Beeswax: A Minireview of Its Antimicrobial Activity and Its Application in Medicine. *Asian Pacific Journal of Tropical Medicine*. 9(9) : 839-843.
- Gonzalez, M., A. G. S. Reyes, P. D. Nava, S. H. Ortega, M. L. M. Rubalcava, and M. A. J. Arellanes. 2018. Hepatoprotective And Anti-Inflammatory Activities Of The *Cnidioscolus chayamansa* (Mc Vaugh) Leaf Extract In Chronic Moels. *Hindawi*. 1:1-12.
- Guntoro, Y. P. 2013. *Aktivitas dan Produktivitas Lebah Tetragoluna laeviceps di Kebun Polikultur dan Monokultur Pala (Myristica fragrans)*. [Skripsi]. Departemen Ilmu Produksi dan Teknologi Peternakan Fakultas Peternakan. Institut Pertanian Bogor.
- Gupta, R. Kumar, W. Reybroeck, J. W. V. Veen, and A. Gupta. 2014. Beekeeping for Poverty Alleviation and Livelihood Security. *Technological Aspects of Beekeeping*. 1(1):90- 97.
- Halim, E., Hardiansyah, N. Sutandyo, A. Sulaeman, M. Artika, and Y. Harahap. 2012. Kajian Bioaktif Dan Zat Gizi Propolis Indonesia Dan Brazil. *Jurnal Gizi dan Pangan*. 7(1): 1-6.
- Halbritter, H., S. Ulrich, F. Grisson, M. Weber, R. Zetter, N. M. Hesse, R. Buchner, M. Svojtka, and A. F. Radivo. 2018. *Illustrated Pollen Terminology, Second Edition*. Springer : Switzerland. Pp:38-57.
- Hamid, M. F. H., Muzuni, L. O. Kadudae, M. Jahiding, L. O. Ahmad, and D. Saputra. 2020. The Determination Of Total Phenolic Content Of Cocoa Pod Husk Based On Microwave-Assisted Extraction Method. *AIP Conference Proceeding*. 2243.
- Han, L., J. Kou, K. Hu, Y. Wang, Z. Tang, Z. Wu, and X. Song. 2021. Protective Effects Of Re-Yan-Ning Mixture On *Streptococcus pneumonia* In Rats Based On Network Pharmacology. *PHARMACEUTICAL BIOLOGY*. 59(1): 209-221.
- Harms, L. O., A. Moussaieff, and T. Rezanka. 2007. Phytochemical Analysis And Comparison For Differentiation Of *Boswellia Carterii* And *Boswellia*

- Serrata. *Natural Product Communications*. 2(2):139-142.
- Harrasi,A., and S.Saidi.2008. Phytochemical Analysis Of The Essensial Oil From Botanically Certified Oleogum Resin Of *Boswellia sacra* (Omani Luban). *Molecules*. 13:2181-2189.
- Hasanudin and Fitriana. 2014. Hubungan Kekerabatan Fenetik 12 Spesies Anggota Familia Asteraceae. *Jurnal EduBio Tropika*. 2(2) :187- 250
- Hesse,M., H.Halbritter, R.Zetter, M.Weber, R.Buchner,A.F. Radivo,S.Ulrich.2009. *Pollen Terminology,An Illustrated Handbook*.Spinger.Vienna.
- Hussein,K.A., Y.D.Lee, and J.H.Joo. Effect Of Rosemary Essensial Oil And *Trichoderma koningiopsis* T-403 VOCs On Pathogenic Fungi Responsible Fo Gingseng Root Rot Disease. *J. Microbiol. Biotechnol.* 30(1): 1018-1026.
- Ignea,C., E.Ioannou, P.Georgantea, S.Loupassaki, F.A.Trikka, A.K.Kanelis, A.M.Makris, V.Roussi, and S.C. Kamprani. 2015. Reconstructing The Chemical Diversity Of Labdane-Type Diterpene Biosynthesis In Yeast. *Metabolic engineering*. 28: 91-103.
- Indra, N.Nurmalasari, and M.Kusmiati. 2019. Fenolik Total, Kandungan Flavonoid, Dan Aktivitas Antioksidan Ekstrak Etanol Daun Mareme (*Glochidion arborescens* Blume.).*Jurnal Sains Farmasi & Klinis*. 6(3).206-212.
- Jalil, A.H., and I.Shuib. 2014. *Indo-Malayan Stingless Bees: Pictorial Identification Guide and Composite Algorithm*. Accessed at <https://ses.library.usyd.edu.au> on March 12nd 2021.
- Jenecius,A.A., F.Uthayakumari, and V.R. Mohan. 2012. GC-MS Determination Of Bioactive Components Of *Sauropus bacciformis* Blume (*Euphorbiaceae*). *Journal Of Current Chemical & Pharmaceutical Science*. 2(4):347-358.
- Joko, R.W. 2005. Keanekaragaman Palem (Palmae) di Gunung Lumut, Kalimantan Tengah.*Biodiversitas*. 6(1): 22-30.
- Jongjitvimol,T., and P.Poolprasert. 2014. Pollen Sources of Stingless Bees (*Hymenoptera: Meliponinae*) in Nam Nao National Park, Thailand. *International Journal Of Science*, 11 (2):1-10.
- Karunaratne, W.A.I.P., and J.P.Edirisinghe. 2008. Keys For The Identification Bees of Srilanka. *J.Natn.Sci.Foundation.Sri Lanka*. 36 (1) : 69-89.
- Kurniawan, A., N.P.S.Asih, Yusammi, and P.C.Boyce. 2013. Studies on the Araceae of the Lesser Sunda Island I: New Distribution Record for *Alocasia alba*. *Garden's Bulletin Singapore* 65 (2): 157-162.
- Kwapong,P., K.Aidoo, R.Combey, and A.Karikari. 2010. *Stingless bees : Importance, Management and Utilisation*. Unimax Macmillan. Ghana.
- Lancaster,J., A.Khrimian, S.Young, B.Lehner, K.Luck, and A.Wallingford. 2018. Denovo Formation Of An Aggregation Pheromone Precursor By Isoprenyl Diphosphate Synthase-Related Terpe Synthase In The Harlequin Bug.*PNAS*. 37: 115-120.
- Lubis,R.T. 2011. Isolasi Dan Uji Aktivitas Antibakteria Fraksi Non Polar Spon Laut *Axinella carteri* Terhadap Bakteri *Ralstonia solanacearum*. [Skripsi]. Fakultas farmasi. Universitas andalas.
- Mackenzie, A. 2011. *Beekeeping : A Step by Step Guide to Setting Up and Maintaining a Hive*. Hobbble Creek Press. An Imprint of Cedar Fort, Inc. pp : 129.

- Manisha, D., and S. Mandal. 2010. Coconut (*Cocos nucifera* L.: Arecaceae): In health promotion and disease Prevention. *Asian Pacific Journal of Tropical Medicine*.(1):241-247.
- Mackenzie, A. 2011. *Beekeeping : A Step by Step Guide to Setting Up and Maintaining a Hive*. Hobble Creek Press. An Imprint of Cedar Fort, Inc. p . 129.
- Matheson, A. and M.Reid. 2011. *Practical Beekeeping in New Zealand*. 4th edition. Exisle Publishing:New Zealand. p. 217.
- Moore, P.D., and J.A.Webb. 1991. *Pollen Analysis. 2 Sub Edition*. Blackwell Press: London.
- Myers, P., R. Espinosa, C. S. Parr, T. Jones, G. S. Hammond, and T. A. Dewey. 2018. *The Animal Diversity*. <http://animaldiversity.org>. Accessed on April 3th, 2020.
- Nagamitsu, T., and T.Inoue. 2020. Aggressive Foraging of Social Bees as a Mechanism of Floral Resource Partitioning in anAsian Tropical Rainforest. *Oecologia*. 110(3): 432-439.
- Ndlebe, V., N.Crouch, and D.A.Mulholland. 2008. Triterpenoids From The African Tree *Phyllanthus Polyanthus*. *Journal Phytochemistry*. 1(1):11-17.
- Nogueira, A.O., Y.I.S.Oliveira, B.I.Adjafre, M.E.A.D.Moraes, and G.F.Aragao. 2018. Pharmacological Effect Of The Isomeric Mixture Of Alpha And Beta-Amyrin From *Protium heptaphyllum*: A Literature Review. *Pharmacol*.33(1):4-12.
- Novita, R.S., and Sutriyono. 2013. Analisis Morfometrik Lebah Madu Pekerja Apis Cerana Budidaya Pada Dua Ketinggian Tempat yang Berbeda. *Jurnal Sains Peternakan Indonesia*. 8(1) : 41-56.
- Pavel, C.I., P. L. Marghitas , O.Bobis, D. S. Dezmirean, A.Sapcaliu, I.Rado, and M.N. Madas. 2011. Biological Activities of Royal Jelly : Review. *Scientific Papers : Animal Science and Biotechnologies*. 44(2).
- Prata, A.P.N. and D.A. Simpson. 2009. *Neotropical Cyperaceae*. Accessed at <http://www.kew.org/science/tropamerica/neotropikey/familia/Cyperaceae> on April 6th 2021
- PubcheM.2021. Accessed at <https://pubchem.ncbi.nlm.nih.gov/> on April 2021
- Pudjoarinto, A, and Hasanudin. 1996. Kedudukan Taksonomi Duku, Kokosan, dan Pisitan : Ditinjau dari Morfologi Serbuk Sari. *Jurnal Biologi*. 2 (1):1-10.
- Purnomo, D.W. and D. Usmadi. 2012. Pengaruh Struktur dan Komposisi Vegetasi dalam Menentukan Nilai Konservasi Kawasan Rehabilitasi di Hutan Wanagama I dan Sekitarnya. *Jurnal Biologi Indonesia*. 8(2): 255-267.
- Puspita, D., T.S.Wulandaris, F.D.Wahyu, and M.Rahardjo. 2019. Analisis Senyawa Bioaktif Dalam Minyak Sengkawang (*Shorea Sumatrana*) Dengan GC-MS. *Jurnal Teknologi Pangan Dan Gizi*. 18(2): 64-73.
- Putra, P.A.H, N.L.Watiniasih, and N.M.Suartini. 2014. Structure And Production Of Stingless Bee *Tetragoluna laeviceps*. In Cylindrical And Round Nest Types. *Jurnal Biologi*. 18 (2):60-64.
- Putra, N.S., N.L.Watiniasih, and M.Suartini. 2016. Jenis Lebah *Trigona* (Apidae ; Meliponinae) On Different Altitude In Bali. *Jurnal Symbiosis IV*. (1):6-9.
- Quintao, N.L.M., L.W.Rocha, G.F.Silva, S.Reichert, V.D.Claudino, R.M.L.Silva, A.Malheiros, M.M.D.Souza, V.C.Filho, T.M.B.Bresolin, M.D.S.Machad, T.M.Wagner, and C.M.Silva. 2014. Contribution Of α , β -Amyrenone To

- The Anti-Inflammatory And Antihypersensitivity Effects Of *Aleurites moluccana* (L.) Willd. *Biomed Research International*. 1:1-11.
- Rasyid,M. 2017. *Keanekaragaman Serbuk Sari dan Metabolit Sekunder Pada Madu Hutan Sulawesi Tengah*. [Skripsi]. Fakultas Biologi. Universitas Gadjah Mada.
- Riyanto,A., R.Yunilawati, D.Rahmi, N.N.Aidha, and E.Ratnawati. 2015. Isomerisasi Eugenol Menjadi Isoeugenol Dengan Metode Sonikasi. *J.Kimia dan Kemasan*. 31(1):29-36.
- Rosyidi ,D., L. E. Radiati, S. Minarti, Mustakim, A.Susilo, F.Jaya, And A. Azis. 2018. Perbandingan Sifat Antioksidan Propolis Pada Dua Jenis Lebah (*Apis Mellifera* Dan *Tetragoluna laeviceps*) Di Mojokerto Dan Batu, Jawa Timur, Indonesia. *Jurnal Ilmu Dan Teknologi Hasil Ternak*. 13 (2): 108-117.
- Roubik, D.W., B.H.Smith, and R.G.Carlson. 1987. Formic acid in caustic cephalic secretins of stingless bee, *Oxytrigona* (Hymenoptera: Apidae). *Journal of Chemical Ecology*. 13(5): 1079-1086.
- Sakagami, S.F. 1978. *Tetragonula Stingless* Bees of the Continental Asia and Sri Lanka (Hymenoptera, Apidae). *Journal of the Faculty of Science Hokkaido University Series VI. Zoology*. 21(2) : 165-247.
- Salatino. A., W.T. Erica, N. Giuseppina, and M. Dejair. 2005. *Origin and Chemical Variation of Brazilian Propolis*. *Evid Base Complement Alternat. Med*. 2(2): 33-38.
- Sambodo, N. 2009. *Uji Efek Tonik Madu Rambutan pada Mencit Putih Jantan dengan Metode Natatory Exhaustion* [Skripsi]. Fakultas Farmasi Universitas Muhammadiyah Surakarta. Surakarta.
- Sannier,J., W.J.Baker, M.C.Anstett, and S.Nadot. 2009. A comparative analysis of pollinator type and pollen ornamentation in the araceae and arecaceae, two unrelated families of the monocots. *BMC Research Notes*. 2:145
- Sari, D.A., and R.E.Putra. 2015. Kajian Karakter Bunga *Coffea arabica* L. Terkait Dengan Kemungkinan Aplikasi Lebah Madu Lokal Sebagai Agen Penyerbuk. *Jurnal Matematika & Sains*. 20 (1) :27-31
- Sativa,N., and R.Agustin. 2018. Analisis Uji Kadar Senyawa Dan Uji Antioksidan Ekstrak Propolis Coklat Dari Lebah *Trigona* Sp. *Jagros*. 2(2)61-68.
- Seigler, D. S. 1998. *Plant Secondary Metabolism*. Springer Science. New York. pp : 353-486.
- Simpson, M.G. 2011. *Plant Systematics*. Elsevier. Academic Press: Canada. pp: 402
- Singh,P. 2015. *Studies on Characterization and Behavior of the Stingless Bee Tetragonula iridipennis Smith with Biochemical Properties of Its Honey*. [Tesis].G.B.Pant University of Agriculture and Technology.Pantnagar.
- Singh,R. 2013. Domestication Of *Tetragoluna iridipennis* Smith In A Newly Designed Hive. *National Academy Science Letter*. 36 (4):367-371.
- Sudaryadi, I., Sutikno, S.A.Firdausya, A.A.Rahmah, and M.Rasyiid. 2020. Pollen Diversity as Feed Source of Stingless Bee, *Tetragonula iridipennis* (Hymenoptera: Apidae) in the Forest of Biology Faculty, Universitas Gadjah Mada, Indonesia. *AIP Conference Proceedings*. 2260, 040021:1-5
- Suedy,S.W.A. 2012. *Paleorekonstruksi Vegetasi dan Lingkungan Menggunakan Fosil Polen dan Spora Pada Formasi Tapak Cekungan Banyumas Kala Plio-Oliosten*. Sekolah Pascasarjana Institut Pertanian Bogor. Bogor.

- Sugandha, G. 2019. *Morphological Characteristics of Pollen Grains*. Accessed at <http://www.biologydiscussion.com> on March 8th 2019.
- Suranto, A. 2010. *Dahsyatnya Propolis untuk Menggempur Penyakit*. PT AgroMedia Pustaka: Jakarta. pp : 13-15.
- Suranto, A. 2004. *Khasiat dan Manfaat Madu Herbal*. Agromedia Pustaka: Jakarta.
- Suryelita, S.B. Etika, and N.S. Kurnia. 2017. Isolasi Dan Karakterisasi Senyawa Steroid Dari Daun Cemara Natal (*Cupressus funebris* Endl.). *Eksakta*. 18(1):1-10.
- Tambde, G.M., R.D. Gore, and M.M. Sardesai. 2016. A Synopsis of The Genus *Sida* L. (Malvaceae) from Maharashtra, India. *Taiwania*. 61(3) :243-252
- Vashev, K. K., P. Olczyk, J. Kazmierczak, L. Mencner, and K. Olczyk. 2015. *Bee Pollen : Chemical Composition and Therapeutic Application*. Evidence Based Complementary and Alternative Medicine.
- Wallace, H.M. and J. Lee. 2009. Resin-Foraging by Colonies of *Tetragoluna sapiens* and *T. hockingsi* (Hymenoptera : Apidae, Meliponini) and Consequent Seed Dispersal of *Corymbia torelliana* (Myrtaceae). *Apidologie*. 41: 428 – 435.
- Widiyati, E. 2006. Penentuan Senyawa Triterpenoid Dan Uji Aktivitas Biologis Pada Beberapa Spesies Tanaman Obat Tradisional Masyarakat Pedesaan Bengkulu. *Jurnal Gradien*. 2(1):116-122.
- Widowati, R. 2013. Pollen Substitute Pengganti Serbuk Sari Alami Bagi Lebah Madu. *E-Journal WIDYA Kesehatan Dan Lingkungan*. 1(1): 31 – 36.
- Wyns, D. 2018. *A Bit About Wings*. Accessed at <https://beeinformed.org/> on March 12nd 2021
- Yuliana, M., B.T.N. Thi, S. Faika, L.H. Huynh, F.E. Soetaredjo, and Y.H. Ju. 2014. Separation And Purification Of Cardol, Cardanol And Anacardic Acid From Cashew (*Anacardium occidentale* L.) Nut-Shell Liquid Using A Simple Two Step Column Chromatography. *Jurnal Of The Taiwan Institute Of Chemical Engineers*. 45:2187-2193.
- Yuliana, R., E. Sutariningsih, H.B. Santoso, K.A. Hendarto, and S.D. Riendrasari. 2015. Daya Antimikrobia Sarang Lebah Madu *Trigona* spp terhadap Mikrobia Patogen. *BIOEDUKASI*: 8(1) 67-72
- Yusuf, B.A., A. Djamal, and Asterina. 2015. Perbedaan Daya Hambat Bakteri dari Propolis Cair yang Ada di Pasaran Terhadap *Escherichia Coli* dan *Staphylococcus Aureus* Secara In Vitro. *Jurnal Kesehatan Andalas*. 4(3) : 841-844.
- Zahrina, Hasanuddin, and Wadiah. 2017. Studi Morfologi Serbuk Sari Enam Anggota Familia Rubiaceae. *Jurnal Ilmiah Mahasiswa Fakultas Keguruan dan Ilmu Pendidikan Unsyiah*. 2(1): 114-123
- Zhang, C., G.W. Booz, Q. Yu, X. He, S. Wang, and F. Fan. 2018. Conflicting Roles Of 20-HETE N Hypertension And Renal End Organ Damage. *European Journal Of Pharmacology*. 833:190-200.