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DAFTAR PUSTAKA

‘Arifin, M.S., 2018, Aktivitas Ekstrak Etanol 96% Daun *Chrysophyllum cainito* L. Terhadap Peningkatan Kepadatan Massa Tulang Trabekular Femur Mencit Jantan, Skripsi, Universitas Islam Negeri Maulana Malik Ibrahim.

Aké-Assi L, 1984, Flore de la Côte-d’Ivoire: Étude Descriptive et Biogéographique, Avec Quelques Notes Ethnobotaniques, Thèse de Doctorat d’Etat Ès Sciences Naturelles, Université d’Abidjan, F.A.S.T., N° d’ordre 008/84, 1001-1010 cit. Koffi, N., Ernest, A.K., Marie Solange, T., Beugré, K., Noël, Z.G., 2009, Effect of Aqueous Extract of *Chrysophyllum cainito* Leaves on The Glycaemia of Diabetic Rabbits, *African Journal of Pharmacy and Pharmacology* 3(10): 501–506.

Alvarez, P.L.J., Cruz, M.B., Micor, J.R.L., Fajardo, A.C., Jr., Cervancia, C.R., Hizon-Fradejas, A.B., 2013. Identification of Flavonoids and Phenolic Compounds in Propolis from Stingless Bee (*Tetragonula Biroi* Friese) Nests and Extracts from Five Tree Sources Using Tandem Liquid Chromatography-Mass Spectrometry, *Philippine entomologist* 27, 91–99.

Amarilis, K., Sutiarno, W., Annisa, G.S., Wahid, A.A., 2014, Penurunan Kadar Gula Darah pada Penderita Diabetes Mellitus Melalui Pengembangan Obat Herbal dengan Teknik Ekstraksi Daun Kenitu, Laporan Penelitian, Institut Pertanian Bogor, Bogor.

Arana-Argáez, V.E., Chan-Zapata, I., Canul-Canche, J., Fernández-Martín, K., Martín-Quintal, Z., Torres-Romero, J.C., Coral-Martínez, T.I., Lara-Riegos, J.C., Ramírez-Camacho, M.A., 2017, Immunosuppresive Effects Of The Methanolic Extract Of *Chrysophyllum cainito* Leaves On Macrophage Functions, *African Journal of Traditional, Complementary and Alternative Medicines* 14: 179–186.

Arana-Argáez, V.E., Mena-Rejón, G.J., Torres-Romero, J.C., Lara-Riegos, J.C., López-Mirón, G., Carballo, R.M., 2021, Anti-Inflammatory Effects of *Chrysophyllum cainito* Fruit Extract in Lipopolysaccharide-Stimulated Mouse Peritoneal Macrophages, *Inflammopharmacology* 29: 513–524.

Arrijal, I.M.H., Ma’arif, B., Suryadinata, A., 2018, Activity of Ethyl Acetate Extract from *Chrysophyllum cainito* L. Leaves in Decreasing Blood Sugar Level in Male Wistar Rats, *Journal of Islamic Pharmacy* 3: 31−38.

Attardi, B.J., Page, S.T., Hild, S.A, Coss, C.C., Matsumoto, A.M, 2010, Mechanism of Action of Bolandiol (19-nortestosterone-3beta,17beta-diol), A Unique Anabolic Steroid with Androgenic, Estrogenic, and Progestational Activities, *The Journal of Steroid Biochemistry and Molecular Biology* 118:151–161.

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Attwood, D., Florence, A.T., 1983, *Surfactant Systems: Their Chemistry, Pharmacy and Biology*, Chapman and Hall Ltd, London.

Behl, T., Kumar, K., Brisc, C., Rus, M., Nistor-Cseppento, D.C., Bustea, C., Aron, R.A.C., Pantis, C., Zengin, G., Sehgal, A., Kaur, R., Kumar, A., Arora, S., Setia, D., Chandel, D., Bungau, S., 2020, Exploring The Multifocal Role of Phytochemicals As Immunomodulators, *Elsevier Masson SAS* 133: 1–18.

Beltran, M., Robertson, A., Martin, R., 2019, The Effects of Plant Leaves Variants from The Philippines on Infective *Oesophagustonum dentatum* Larvae, *Veterinary Biomedical and Clinical Journal* 1: 9–18.

Briones, A.T., Chichioco-Hernandez, C.L., 2018, Lipase Inhibitory Activity of *Carica papaya*, *Chrysophyllum cainito*, *Corcorus olitorius*, *Cympogon citrates* and *Syzygium cumini* Extracts, *Food Research* 2: 51–55.

Carreiro, A.L., Dhillon, J., Gordon, S., Higgins, K.A., Jacobs, A.G., McArthur, B.M., Redan, B.W., Rivera, R.L., Schmidt, L.R., Mattes, R.D., 2016, The Macronutrients, Appetite, and Energy Intake, *Annual Review of Nutrition* 36: 73–103.

Charles, D.J., 2013, *Antioxidant Properties of Spices, Herbs and Other Sources*, 3−9, Springer, New York.

Chel-Guerrero, L.D., Gómez-Cansino, R., Gúzman-Gutierrez, S.L., Campos-Lara, M.G., Saury-Duch, E., Díaz de León Sánchez, F., Reyes-Chilpa, R., Mendoza-Espinoza, J.A., 2018a, *In Vitro* Antiviral Activity and Phytochemical Screen in The Extracts of Peels From Four Species of Tropical Fruits Collected in Merida Yucatan, Mexico, *Phyton-International Journal of Experimental Botany* 87: 68–71.

Chel-Guerrero, L.D., Sauri-Duch, E., Fragoso-Serrano, M.C., Pérez-Flores, L.J., Gómez-Olivares, J.L., Salinas-Arreortua, N., Sierra-Palacios, E.D.C., Mendoza-Espinoza, J.A., 2018b, Phytochemical Profile, Toxicity, and Pharmacological Potential of Peels from Four Species of Tropical Fruits, *Journal of Medicinal Food* 21; 734–743.

Coe, F.G., Parikh, D.M., Johnson, C.A., Anderson, G.J., 2012, The Good and The Bad: Alkaloid Screening and Brineshrimp Bioassays of Aqueous Extracts of 31 Medicinal Plants of Eastern Nicaragua, *Pharmaceutical Biology* 50: 384–392.

Croteau, R., Kutchan, T. M., Lewis, N. G., 2000, Natural products (secondary metabolites), dalam Buchanan, I.B., Gruissem, W., Jones, R. (Eds.), *Biochemistry & Molecular Biology of Plants*, 1250–1318, American Society of Plant Physiologists, USA.

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Curir, P., Dolci, M., Lanzotti, V., Taglialatela-Scafati, O., 2001, Kaempferide Triglycoside: A Possible Factor of Resistance of Carnation (*Dianthus Caryophyllus*) to *Fusarium Oxysporum* F. sp. Dianthi, *Phytochemistry* 56: 717−721.

da Rosa, R.L., de Almeida, C.L., Somensi, L.B., Boeing, T., Mariano, L.N.B., de Medeiros Amorim Krueger, C., de Souza, P., Filho, V.C., da Silva, L.M., de Andrade, S.F., 2019, *Chrysophyllum cainito* (Apple-Star): A Fruit with Gastroprotective Activity in Experimental Ulcer Models, *Inflammopharmacology* 27: 985–996.

de la Espriella-Angarita, S., Granados-Conde, C., León-Mendez, D., Leon-Mendez, G., Pajaro-Castro, N., 2021, Development of Microcapsules from The Caimito Fruit Cultivated in The Department of Sucre to Use Its Antioxidant Capacity, *Pharmacologyonline* 3: 1275–1282.

Déciga-Campos, M., Ortiz-Andrade, R., Sanchez-Recillas, A., Flores-Guido, J.S., Ramírez Camacho, M.A., 2017. Antinociceptive and Antihyperalgesic Activity of a Traditional Maya Herbal Preparation Composed of *Pouteria campechiana*, *Chrysophyllum cainito*, *Citrus limonum*, and *Annona Muricata*, *Drug Development Research*, 78: 91–97.

Ditzen, M., Pellegrino, M., Vosshall, L.B., 2008, Insect Odorant Receptors are Molecular Targets of the Insect Repellent DEET, *Sciencexpress* 319:1838–1842.

Doan, H.V. dan Le, T.P., 2020, *Chrysophyllum cainito*: A Tropical Fruit with Multiple Health Benefits, *Evidence-Based Complementary and Alternative Medicine* 2020: 1–9.

Doan, H.V., Riyajan, S., Iyara, R., Chudapongse, N., 2018, Antidiabetic Activity, Glucose Uptake Stimulation and α-Glucosidase Inhibitory Effect of *Chrysophyllum cainito* L. Stem Bark Extract, *BMC Complementary and Alternative Medicine* 18.

Doan, H.V., Sritangos, P., Iyara, R., Chudapongse, N., 2020, *Chrysophyllum cainito* Stem Bark Extract Induces Apoptosis in Human Hepatocarcinoma HepG2 Cells Through ROS-Mediated Mitochondrial Pathway, *PeerJ* 8: 1−18.

du Sert, N.P., Hurst, V., Ahluwalia, A., Alam, S., Avey, M.T., Baker, M., Browne, W.J., Clark, A., Cuthill, I.C., Dirnagl, U., Emerson, M., Garner, P., Holgate, S.T. Howells, D.W., Karp, N.A., Lazic, S.E., Lidster, K., MacCallum, C.J., Macleod, M., Pearl, E.J., Petersen, O.H., Rawle, F., Reynolds, P., Rooney, K., Sena, E.S., Silberberg, S.D., Steckler, T., Würbel, H., 2020, The ARRIVE

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

guidelines 2.0: Animal Research: Reporting of In Vivo Experiments, *PLoS Biology*.

EFSA, 2017, Dietary Reference Values for Nutrients Summary Report, *EFSA Supporting Publications*.

Einbond, L.S., Reynertson, K.A., Luo, X.-D., Basile, M.J., Kennelly, E.J., 2004, Anthocyanin Antioxidants from Edible Fruits, *Food Chemistry*, 84: 23–28.

El-Hawary, ED., S.S., El-Zalabani, S.M., Selim, N.M., Ibrahim, M.A., Wahba, F.A., El-Badawy, S.A., Mahdy, N.E.S., Yasri, A., Sobeh, M., 2019, Phenolic Constituents of *Chrysophyllum oliviforme* L. Leaf Down-Regulate TGF-β Expression and Ameliorate CCL4-Induced Liver Fibrosis: Evidence from *In Vivo* and *In Silico* Studies, *Antioxidants* 8: 1−19.

El-Mekkawy, S., Abdel-Sattar, E., Kawahata, T., Otake, T., 2009, Screening of Egyptian Medicinal Plant Extracts for Anti-Human Immunodeficiency Virus Type-1 (HIV-1) Activity, *Journal of The Arab Society for Medical Research* 4: 1–8.

Elsevier Community, 2020, Infographic: global research trends in infectious disease, https://www.elsevier.com/connect/infographic-global-research-trends-in-infectious-disease, diakses 9 Juni 2022.

Ernest, A.K., Marie-Solange, T., Beugre, K., Noeuml, Z.G., 2011. Effect of Aqueous Extract of *Chrysophyllum cainito* Leaves on The Glycaemia of Diabetic Rabbits, *African Journal of Pharmacy and Pharmacology*, 5: 501–506.

Ervina, M., Nawu, Y.E., Esar, S.Y., 2016, Comparison of In Vitro Antioxidant Activity of Infusion, Extract and Fractions of Indonesian Cinnamon (*Cinnamomum burmannii*) Bark, *International Food Research Journal* 23: 1346−1350.

Fernandez-Panchon, M.S., Villano, D., Troncoso, A.M., Garcia-Parrilla, M.C., 2008, Antioxidant Activity of Phenolic Compounds: from In Vitro Results to In Vivo Evidence, *Critical Reviews in Food Science and Nutrition* 48(7): 649–671.

Fernando, I.P.S., Kim, M., Son, KT., Jeong, Y., Jeon, YJ., 2016, Antioxidant Activity of Marine Algal Polyphenolic Compounds: A Mechanistic Approach, *Journal of Medicinal Food* 19: 615–628.

Fowden, L., 1981, Non-Protein Amino Acids, dalam Conn, E.E. (Ed.), *Biochemistry of Plants (Secondary Plant Products)*, 7: 215-248, Academic Press, New York.

Fujimaki, Y., Kamachi, T., Yanagi, T., Cáceres, A., Maki, J., Aoki, Y., 2005, Macrofilaricidal and Microfilaricidal Effects of Neurolaena Lobata, A

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Guatemalan Medicinal Plant, on *Brugia* Pahangi, *Journal of Helminthology* 79: 23–28.

Fukuji, T.S., Tonin, F.G., Tavares, M.F.M., 2010, Optimization of A Method for Determination of Phenolic Acids in Exotic Fruits by Capillary Electrophoresis, *Journal of Pharmaceutical and Biomedical Analysis* 51: 430–438.

Gan, J., Feng, Y., He, Z., Li, X., Zhang, H., 2017, Correlations between Antioxidant Activity and Alkaloids and Phenols of Maca *(Lepidium meyenii), Journal of Food Quality* 2017: 1–10.

Giada, M. de L.R., 2013, Food Phenolic Compounds: Main Classes, Sources and Their Antioxidant Power, dalam Morales-Gonzalez, J.A. (Ed.), *Oxidative Stress and Chronic Degenerative Diseases - A Role for Antioxidants*, 87–112, IntechOpen.

Grabarczyk, M., Katarzyna, W., Maczka, W., Potaniec, B., Aniol, M., 2015, Loliolide-the Most Ubiquitous Lactone, *Folia Biologica et Oecologica* 11:1-8.

Hakim, L. dan Yuliah, 2018, Peran B2P2BPTH Yogyakarta dalam Pelestarian Jenis-Jenis Khas Daerah Istimewa Yogyakarta, dalam *Prosiding SNPBS (Seminar Nasional Pendidikan Biologi dan Saintek) Ke-3, Proceedings*. Dipresentasikan pada Seminar Nasional Pendidikan Biologi Dan Saintek III, 329–337, Program Studi Pendidikan Biologi, Universitas Muhammadiyah Surakarta, Surakarta.

Hanif, A., Nur, Y., Rijai, L., 2018. Aktivitas Antioksidan Ekstrak Kulit Batang Kenitu (*Chrysophyllum cainito* L.) dengan Dua Metode Ekstraksi, dalam *Proceeding of Mulawarman Pharmaceuticals Conferences*: 8–13.

Harborne, 1984, *Phytochemical Methods: A Guide to Modern Techniques of Plant Analysis*, Second Ed., 100−195, Chapman and Hall, New York.

Hesthiati, E., Priatmodjo, D., Wisnubudi, G., Sukartono, I.G.S., 2019, *Keanekaragaman Hayati Tanaman Buah Langka Indonesia*, 174−181, Lembaga Penerbit Unas, Jakarta.

Heyne, K., 1987, *Tumbuhan Berguna Indonesia Jilid III*, Badan Litbang Kehutanan Jakarta, Jakarta.

Hidayat, M.A., Umiyah, Ulfa, E.U., 2007, Uji Aktivitas Antioksidan Ekstrak Air dan Ekstrak Metanol Beberapa Varian Buah Kenitu (*Chrysophyllum cainito* L.) dari Daerah Jember, *Berkala Penelitian Hayati* 13: 45–50.

Hikmah, Z., 2015, Uji Aktivitas Inhibitor Enzim Alfa-glukosidase Fraksi Etanol Daun Kenitu (*Chrysophyllum cainito* L.) berbagai Varian di Daerah Jember, Skripsi, Universitas Jember

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Hue, H.T., Tinh, H.T., Van Bao, N., Dao, P.T.A., 2020, Screening for Antioxidant Activity of Vegetable and Fruit By-Products and Evaluating The Ability of Coffee Sediment to Preserve Fish Meal, *SN Applied Sciences* 2.

ITIS, 2021, ITIS - Report: *Chrysophyllum cainito* L., *Integrated Taxonomic Information System*, https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=23811&print_version=PRT&source=to_print#null, 21 September 2021.

Kabera, J.N., Semana, E., Mussa, A.R., He, X., 2014, Plant Secondary Metabolites: Biosynthesis, Classification, Function and Pharmacological Properties, *Journal of Pharmacy and Pharmacology* 2:377–392.

Karimi, A., Majlesi, M., Rafieian-Kopaei, M., 2015, Herbal Versus Synthetic Drugs; Beliefs and Facts, *Journal of Nephropharmacology* 4: 27–30.

Kementerian Kesehatan Republik Indonesia, 2019, Peraturan Menteri Kesehatan Republik Indonesia Nomor 28 Tahun 2019 tentang Angka Kecukupan Gizi yang Dianjurkan untuk Masyarakat Indonesia, Jakarta.

Koffi, N., Ernest, A.K., Marie-Solange, T., Beugré, K., Noël, Z.G., 2009, Effect of aqueous extract of *Chrysophyllum cainito* leaves on the glycaemia of diabetic rabbits, *African Journal of Pharmacy and Pharmacology* 5: 501-506.

Kruawan, K. dan Kangsadalampai, K., 2006, Antioxidant Activity, Phenolic Compound Contents and Antimutagenic Activity of Some Water Extract of Herbs, *Thai Journal of Pharmaceutical Sciences* 30: 28−35

Lambert, P.A., Smith, A.R., 1977, The Mode of Action of N-(n=Dodecyl) diethanolamine with Particular Reference to The Effect of Protonation on Uptake by *Escherichia coli*, *Journal of General Microbiology* 103: 367−374.

Lee, J., Koo, N., dan Min, D.B., 2004a, Reactive Oxygen Species, Aging, and Antioxidative Nutraceuticals, *Comprehensive Reviews in Food Science and Food Safety* 3: 21–33.

Lee, J.Y., Yoon, J.W., Kim, C.T., dan Lim, S.T., 2004b, Antioxidant activity of phenylpropanoid esters isolated and identified from *Platycodon grandiflorum* A. DC., *Phytochemistry* 65: 3033–3039.

Leopoldini, M., Marino, T., Russo, N., dan Toscano, M., 2004, Antioxidant Properties of Phenolic Compounds: H-Atom Versus Electron Transfer Mechanism, *The Journal of Physical Chemistry A* 108: 4916–4922.

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Li, LB., Lin, S., Yan, J., Wang, QL., Fan, ZY., Dong, QR., Qin, JZ., Xie, ZG., 2015. Poly-Phenolic Fraction of *Chrysophyllum cainito* Extract Induces Cell Death in Osteosarcomacells, *Bangladesh Journal of Pharmacology* 10: 972–979.

Lim, T.K., 2013, *Edible Medicinal and Non-Medicinal Plants*, 97−102, Springer Netherlands, Dordrecht.

Luo, X.D., Basile, M.J., Kennelly, E.J., 2002, Polyphenolic Antioxidants from the Fruits of *Chrysophyllum cainito* L. (Star Apple), *Journal of Agricultural and Food Chemistry* 50: 1379–1382.

Ma'arif, B., dan Aditama, A.P., 2019. Activity of 96% Ethanol Extract of *Chrysophyllum cainito* L. in Increasing Vertebrae Trabecular Osteoblast Cell Number in Male Mice, *Asian Journal of Pharmaceutical and Clinical Research* 12: 286-288.

Ma'arif, B., Mutiah, R., Sidha Bhagawan, W., Amiruddin, R., Rukiana, R., 2019, Profil Metabolit Berbagai Ekstrak Daun *Chrysophyllum cainito* L. Menggunakan UPLC-QTOF-MS/MS, *Jurnal Tumbuhan Obat Indonesia* 12: 10–24.

Ma'arif, B., Putra, K.H.P., Saiful 'Arifin, M., Rukiana, Amiruddin, R., Bhagawan, W.S., Suryadinata, A., Inayatilah, F.R., Muti'ah, R., Aditama, A., 2022, Metabolite Profiling and Activity Study of Ethanol Extract of *Chrysophyllum cainito* L. leaves in Increasing Bone Density in Male Mice, *Thai Journal of Pharmaceutical Sciences* 46: 69–74.

Madrigal-Santillán, E., Madrigal-Bujaidar, E., Cruz-Jaime, S., Valadez-Vega, M. del C., Sumaya- Martínez, M.T., Pérez-Ávila, K.G., dan Morales- González, J.A., 2013, The Chemoprevention of Chronic Degenerative Disease Through Dietary Antioxidants: Progress, Promise and Evidences dalam Morales-Gonzalez J.A. (Ed.), *Oxidative Stress and Chronic Degenerative Diseases: A Role for Antioxidants*, 152−185, IntechOpen.

Madziga, H.A., Sanni, S., Sandabe, U.K., 2010, Phytochemical and Elemental Analysis of *Acalypha wilkesiana* Leaf, *Journal of American Science* 6: 510-514.

Mahdy, N.E.S.H., 2018, A Comparative Pharmacognostical Study of *Chrysophyllum oliviforme* L. and *Chrysophyllum cainito* L. (Family Sapotaceae) grown in Egypt, Tesis, Faculty of Pharmacy Cairo University, Egypt.

Mao, LM., Qi, XW., Hao, JH., Liu, HF., Xu, QH., Bu, PL., 2015, In Vitro, Ex Vivo and In Vivo Anti-Hypertensive Activity of *Chrysophyllum cainito* L. Extract. International Journal of Clinical and Experimental Medicine 8: 17912–17921.

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Maulidiyah, N.Y., 2018, Uji Aktivitas Ekstrak Kloroform Daun Kenitu (*Chrysophyllum cainito* L.) Terhadap Penurunan Kadar Gula Darah Tikus Putih Jantan Galur Wistar (*Rattus Norvegicus* L.) yang Diinduksi Aloksan, Skripsi, Universitas Islam Negeri Maulana Malik Ibrahim.

Marturano, V., Cerruti, P., dan Ambrogi, V., 2017, Polymer additives, *Physical Sciences Reviews* 2: 1-22.

Mehta, S.K. dan Gowder, S.J.T., 2015, Members of Antioxidant Machinery and Their Functions, dalam Gowder, S.J.T. (Ed.), *Basic Principles and Clinical Significance of Oxidative Stress*, 59−85, IntechOpen.

Meira, N.A., Klein Jr, L.C., Rocha, L.W., Quintal, Z.M., Monache, F.D., Cechinel Filho, V., Quintão, N.L.M., 2014, Anti-Inflammatory and Anti-Hypersensitive Effects of The Crude Extract, Fractions and Triterpenes Obtained from *Chrysophyllum cainito* Leaves in Mice, *Journal of Ethnopharmacology* 151: 975–983.

Meira, N.A., Rocha, L.W., da Silva, G.F., Quintal, Z.M., Monache, F.D., Filho, V.C., Quintão, N.L.M., 2016, *Chrysophyllum cainito* leaves are effective against pre-clinical chronic pain models: Analysis of crude extract, fraction and isolated compounds in mice, *Journal of Ethnopharmacology*: 1−34.

Minh, N.P., Hoang, L.T., dan Cuong, H.N., 2019, Various Variables Influencing to Production of Star Apple (*Chrysophyllum Cainito*) Juice, *Journal of Pharmaceutical Sciences and Research* 11: 855−858.

Moo-Huchin, V.M., Estrada-Mota, I., Estrada-León, R., Cuevas-Glory, L., Ortiz-Vázquez, E., de Lourdes Vargas Y Vargas, M., Betancur-Ancona, D., Sauri-Duch, E., 2014, Determination of Some Physicochemical Characteristics, Bioactive Compounds and Antioxidant Activity of Tropical Fruits From Yucatan, Mexico, *Food Chemistry* 152: 508–515.

Moo-Huchin, V.M., Moo-Huchin, M.I., Estrada-León, R.J., Cuevas-Glory, L., Estrada-Mota, I.A., Ortiz-Vázquez, E., Betancur-Ancona, D., Sauri-Duch, E., 2015, Antioxidant Compounds, Antioxidant Activity and Phenolic Content in Peel from Three Tropical Fruits from Yucatan, Mexico, *Food Chemistry* 166: 17–22.

Morton, J.F. dan Dowling, C.F., 1987, Star Apple, dalam Morton, J.F. (Eds), *Fruits of Warm Climates*, 408-410, Creative Resources Systems, North Carolina.

Murillo, E., Britton, G.B., Durant, A.A., 2012, Antioxidant Activity and Polyphenol Content in Cultivated and Wild Edible Fruits Grown in Panama, *Journal of Pharmacy and Bioallied Sciences* 4: 313–317.

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Mustofa, A.S., 2018, Aktivitas Ekstrak Etil Asetat Daun Kenitu (*Chrysophyllum cainito*) Terhadap Peningkatan Kepadatan Tulang Trabekular Vertebra Mencit Betina yang Diinduksi Deksametason, Skripsi, Universitas Islam Negeri Maulana Malik Ibrahim.

Nakchalerm, N., Theanjumpol, P., Joomwong, A., 2018, Evaluation of Antioxidant Capacity in Some Local Thai Fruits in Chiang Mai Province, dalam Roberts, R.E., Nguyen, D.D., Lay-Yee, M. (Eds.), *Proceeding III Asia Pacific Symposium on Postharvest Research, Education and Extension*, 549−552, International Society for Horticultural Science.

Neha, K., Haider, M.R., Pathak, A., Yar, Sahar Yar, M., 2019, Medicinal Prospects of Antioxidants: A review, *European Journal of Medicinal Chemistry* 178: 687−704.

Niki, E., 2010, Assessment of Antioxidant Capacity In Vitro and In Vivo, *Free Radical Biology & Medicine* 49: 503–515.

Ningsih, I.Y., Fairuz, L., Puspitasari, E., Muslichah, S., Hidayat, M., 2015, Uji Aktivitas Penghambatan Enzim a-Glukosidase Ekstrak Buah Kenitu (*Chrysophyllum cainito* L.) dalam Prosiding Seminar Nasional Current Challenges in Drug Use and Development: 34-45

Ningsih, I.Y., Sofyan, M.D., Prabandari, T., Lachtheany, V., Hidayat, M.A., 2020, Antioxidant and A-Glucosidase Inhibitory Activities of Four Types of *Chrysophyllum cainito* L. Fruit, *Fabad Journal of Pharmaceutical Sciences* 45: 105–115.

Ningsih, I.Y., Zulaikhah, S., Hidayat, M.A., Kuswandi, B., 2016, Antioxidant Activity of Various Kenitu (*Chrysophyllum cainito* L.) Leaves Extracts from Jember, Indonesia dalam *Agriculture and Agricultural Science Procedia*, Proceeding. Dipresentasikan pada International Conference on Food, Agriculture and Natural Resources, IC-FANRes (2015) 9, 378–385.

Nisar, B., Sultan, A., dan Rubab, S.L., 2018, Comparison of Medicinally Important Natural Products Versus Synthetic Drugs-A Short Commentary, *Natural Products Chemistry & Research* 6: 1–2.

Noh, M.F.M., Gunasegavan, R. DN., Khalid, N.M., Balasubramaniam, V., Mustar, S., Rashed, A.A., 2020, Recent Techniques in Nutrient Analysis for Food Composition Database, *Molecules* 25: 1−45.

Ogunmola, O., Bolaji, O., Sodamade, A., 2015, The Chemical and Medicinal Potentials of The Fruit Essential Oil of *Chrysophyllum cainito* (India Star Apple), *Southern Brazilian Journal of Chemistry* 23: 37–47.

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
LUCKMAN BAGAS D, Dr. apt. Tatang Irianti, M.Sc.; apt. Puguh Indrasetiawan, M.Sc., Ph.D.
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Ohshima, H., 2003, Genetic and Epigenetic Damage Induced by Reactive Nitrogen Species: Implications in Carcinogenesis, *Toxicology Letters* 140–141: 99–104.

Oranusi, S.U., Braide, W., Umeze, R.U., 2015, Antimicrobial Activities and Chemical Compositions of *Chrysophyllum cainito* (Star Apple) Fruit, *Microbiology Research International* 3, 41–50.

Orwa, C., Mutua, A., Kindt, R., Jamnadass, R., Simons, A., 2009, Agroforestry Database: A Tree Reference and Selection Guide Version 4.0., http://www.worldagroforestry.org/treedb2/speciesprofile.php?Spid=524, 20 Januari 2022

Ouattara, D., 2006 cit. Koffi, N., Ernest, A.K., Marie Solange, T., Beugré, K., Noël, Z.G., 2009, Effect of Aqueous Extract of *Chrysophyllum cainito* Leaves on The Glycaemia of Diabetic Rabbits, *African Journal of Pharmacy and Pharmacology* 3: 501–506.

Paulino, N., Abreu, S.R., Uto, Y., Koyama, D., Nagasawa, H., Hori, H., Dirsch, V.M., Vollmar, A.M., Scremin, A., Bretz, W.A., 2008, Anti-Inflammatory Effects of A Bioavailable Compound, Artepillin C, in Brazilian Propolis, *European Journal of Pharmacology* 587:296-301.

Pennington, T.D. dan Krukoff, B.A., 1991, *The Genera of Sapotaceae*, Royal botanic gardens, Kew.

Pérez, J.A.M. dan Aguilar, T.A.F., 2013, Chemistry of Natural Antioxidants and Studies Performed with Different Plants Collected in Mexico, dalam Morales-Gonzalez J.A. (Eds.), *Oxidative Stress and Chronic Degenerative Diseases - A Role for Antioxidants*, 59−85, IntechOpen.

Pham-Huy, L.A., He, H., Pham-Huy, C., 2008, Free Radicals, Antioxidants in Disease and Health, *Free Radicals and Antioxidants* 4: 89−96.

Pietta, P.G., 2000, Flavonoids as Antioxidants, *Journal of Natural Products* 63: 1035–1042.

Pino, J., Marbot, R., Rosado, A., 2002, Volatile Constituents of Star Apple (*Chrysophyllum cainito* L.) from Cuba, *Flavour and Fragrance Journal* 17: 401–403.

Pohanka M., 2013, Role of oxidative stress in infectious diseases. A review, *Folia Microbiologica* 58(6): 503−513.

Pramudito, E.D.S., Efendi, E., Shodikin, M.A., 2019, Efek Antioksidan Ekstrak Etanol Daun Kenitu (*Chrysophyllum cainito* L.) terhadap Tikus Wistar yang Diinduksi Cyclophosphamid, *Journal of Agromedicine and Medical Sciences* 5: 106−111

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Putri, L.A., 2015, Uji Aktivitas Inhibisi Alfa-Glukosidase Fraksi Etil Asetat Beberapa Varian Daun Kenitu (*Chrysophyllum cainito* L.) Daerah Jember Sebagai Antidiabetes, Skripsi, Universitas Jember.

Qi, X., Yang, M., Ren, W., Jia, J., Wang, J., Han, G., & Fan, D., 2013, Find Duplicates Among The Pubmed, EMBASE, and Cochrane Library Databases in Systematic Review, *PloS One* 8: 1−12.

Rahayu, S., Adriatmoko, W., Amin, M., 2021. Pengaruh Gel Ekstrak Daun Kenitu (*Chrysophyllum cainito* L.) terhadap Reepitelisasi pada Penyembuhan Luka Bakar Mukosa Bukal Tikus Wistar, STOMATOGNATIC - *Jurnal Kedokteran Gigi* 18: 30−34.

Ramawat, K.G., Dass, S., Mathur, M., 2009, *The Chemical Diversity of Bioactive Molecules and Therapeutic Potential of Medicinal Plants, dalam Ramawat, K.G. (Ed.), Herbal Drugs: Ethnomedicine to Modern Medicine*, 7-32, Springer, Berlin Heidelberg.

Richard, T., Temsamani, H., Cantos-Villar, E., Monti, JP.,2013, Chapter Two: Application of LC–MS and LC–NMR Techniques for Secondary Metabolite Identification, dalam Rolin, D., (Ed), *Advances in Botanical Research: Metabolomics Coming of Age with Its Technological Diversity*, 67–98, Academic Press.

Riwanti, P., Arifin, M.S., Muslikh, F.A., Amalia, D., Abada, I., Aditama, A.P., Ma'arif, B., 2021, Effect of *Chrysophyllum cainito* L. Leaves on Bone Formation In Vivo and In Silico, *Tropical Journal of Natural Product Research*, 5: 260–264.

Romero, A.C., Olvera Hernandez, E.G., Cern, T.F., lvarez, A., 2013, The Exogenous Antioxidants dalam: Morales-Gonzalez, J.A. (Ed.), *Oxidative Stress and Chronic Degenerative Diseases - A Role for Antioxidants*, 33−57, InTech.

Roni, A., Fitriani, L., Marliani, L., 2019. Penetapan Kadar Total Flavonoid, Fenolat, dan Karotenoid, serta Uji Aktivitas Antioksidan dari Daun dan Kulit Batang Tanaman Kenitu (*Chrysophyllum cainito* L.), *Jurnal Sains dan Kesehatan* 2: 83–88.

Rozalina I., Sudisma, I.G.N, Dharmayudha, A.A.G.O., 2017, Identifikasi Senyawa Kimia Ekstrak Etanol Bunga Kecubung (*Datura metel* L.) di Bali yang Berpotensi sebagai Anestetik, *Indonesia Medicus Veterinus* 6: 124-129.

Safitri, I.F., Nuramanah, S., Widarti, A., Yuni, A.N., 2014, Balado Cainito: Keripik Sawo Apel (*Chrysophyllum cainito*) sebagai Jajanan Kaya Serat dan Bergizi Tinggi, Laporan Akhir PKM Kewirausahaan, Institut Pertanian Bogor, Bogor.

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Salmon, D.M., 2014, *Practical Pharmacology for the Pharmaceutical Sciences*, 37, John Wiley & Sons, West Sussex.

Santana-Gálvez, J. dan Jacobo-Velázquez, D.A., 2018, Classification of Phenolic Compounds, dalam Nollet, L.M.L. dan Gutierrez-Uribe, J.A. (Eds.), *Phenolic Compounds in Food: Characterization and Analysis*, 3−20, CRC Press, Boca Raton.

Santos-Sánchez, N.F., Salas-Coronado, R., Villanueva-Cañongo, C., dan Hernández-Carlos, B., 2019, Antioxidant Compounds and Their Antioxidant Mechanism, dalam Shalaby, E. (Ed), *Antioxidants*, 1–28, IntechOpen.

Sayed, D.F., Nada, A.S., Abd El Hameed Mohamed, M., Ibrahim, M.T., 2019, Modulatory Effects of *Chrysophyllum cainito* L. Extract on Gamma Radiation Induced Oxidative Stress in Rats, *Biomedicine and Pharmacotherapy* 111: 613–623.

Scalbert, A. dan Williamson, G., 2000, Dietary Intake and Bioavailability of Polyphenols, dalam *Chocolate: Modern Science Investigates an Ancient Medicine*, 2073S-2084S, Dipresentasikan pada 2000 Annual Meeting and Science Innovation Exposition of the American Association for the Advancement of Science, Washington D.C.

Shailajan, S., Gurjar, D., 2016, Wound Healing Activity of *Chrysophyllum Cainito* L. Leaves: Evaluation in Rats Using Excision Wound Model, *Journal of Young Pharmacists* 8, 96–103.

Shailajan, S., Gurjar, D., 2014. Pharmacognostic and Phytochemical Evaluation of *Chrysophyllum cainito* Linn. Leaves, *International Journal of Pharmaceutical Sciences Review and Research* 26, 106–111.

Shergill-Bonner, R., 2017, Micronutrients, *Paediatrics & Child Health* 27(8): 357–362.

Simic, M.G., 1981, Free radical mechanisms in autoxidation processes, *Journal of Chemical Education* 58: 125−131.

Sisein, E.A., 2014, Biochemistry of Free Radicals and Antioxidants, *Scholars Academic Journal of Biosciences* 2: 110–118

Talegawkar, S.A., Beretta, G., Yeum, K.-J., Johnson, E.J., Carithers, T.C., Taylor, H.A., Russell, R.M., dan Tucker, K.L., 2009, Total Antioxidant Performance Is Associated with Diet and Serum Antioxidants in Participants of the Diet and Physical Activity Substudy of the Jackson Heart Study, *The Journal of Nutrition* 139: 1964–1971.

UNIVERSITAS GADJAH MADA
Ulasan Tentang Profil Kandungan Kimia dan Aktivitas Farmakologis dari Sawo Bludru (Chrysophyllum cainito L.)
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Thangaraj, P., 2016, *Pharmacological Assays of Plant-Based Natural Products*, 16−19, Springer, Switzerland.

Trevor, A.J., Katzung, B.G., Kruidering-Hall, M., 2015, *Katzung & Trevor's Pharmacology Examination & Board Review*, Eleventh Ed., 1, McGraw-Hill Education, USA.

U.S. Department of Agriculture, Agricultural Research Service, 1992-2016a, Dr. Duke's Phytochemical and Ethnobotanical Databases, *Chrysophyllum cainito* (Sapotaceae),https://phytochem.nal.usda.gov/phytochem/plants/show/434?qlookup=chrysophyllum+cainito&offset=0&max=20&et=, 9 Oktober 2021.

U.S. Department of Agriculture, Agricultural Research Service, 1992-2016b, Dr. Duke's Phytochemical and Ethnobotanical Databases, *Chrysophyllum cainito* (Sapotaceae),https://phytochem.nal.usda.gov/phytochem/ethnoPlants/show/2978?qlookup=chrysophyllum+cainito&offset=0&max=20&et=, 9 Oktober 2021.

Utaminingtyas, N.I., 2017, Uji Aktivitas Ekstrak Etanol 70% Daun Kenitu (*Chrysophyllum cainito*) Terhadap Peningkatan Kepadatan Tulang Traberkular Vertebra Mencit Betina yang Diinduksi Deksametason, Skripsi, Universitas Islam Negeri Maulana Malik Ibrahim.

Wang, Y., Chen, Y., Jia, Y., Xue, Z., Chen, Z., Zhang, M., Panichayupakaranant, P., Yang, S., Chen, H., 2021, *Chrysophyllum cainito*. L Alleviates Diabetic and Complications by Playing Antioxidant, Antiglycation, Hypoglycemic Roles and The Chemical Profile Analysis, *Journal of Ethnopharmacology* 281: 1−10.

White, B., Rice, L., Howard, L.R., 2012, The Procedure, Principle, and Instrumentation of Antioxidant Phytochemical Analysis, dalam Xu, Z., dan Howard, L.R. (Eds.), *Analysis of Antioxidant-Rich Phytochemicals*, 26−27, Wiley-Blackwell, United Kingdom

WHO, 2018a, *Noncommunicable Diseases Country Profiles 2018*, World Health Organization, Geneva.

WHO, 2018b, *World Health Statistics 2018: Monitoring Health for the SDGs, Sustainable Development Goals*, World Health Organization, Geneva.

Will, R., 2016, Critical Appraisal: A Checklist, https://s4be.cochrane.org/blog/2016/09/06/critical-appraisal-checklist/, 28 Mei 2022.