

DAFTAR PUSTAKA

- Adlina, Aripah dan Rahmawati, Yeni. 2021. Analisis Pengaruh Rhodamin B Terhadap Histopatologi Tikus Putih. *Jurnal Publikasi*
- Afriyeni, H. dan Utari, N. W. 2016. Identifikasi Zat Warna Rhodamin B Pada Lipstik Berwarna Merah Yang Beredar Di Pasar Raya Padang. *Jurnal Farmasi Higea*. Vol 8(1)
- Amani R., Hajiani E., Hejazi E., Vaziri N. 2011. Comparison of serum levels of vitamins E and C and dietary antioxidants intakes between patients with inflammatory bowel disease and healthy subjects. *Int J endocrinol Metab*. 3:187- 92
- Ana Rohma. 14 bahaya Rhodamin B pada Makanan <https://halosehat.com/farmasi/aditif/bahaya-rhodamin-b-pada-makanan> (08 April 2023)
- Angad, G., & Veterinary, D. 2016. Development of large intestine of buffalo.
- Anjasmara, P. A., Romdhoni, M. F., dan Ratnaningsih, M. 2017. Pengaruh Pemberian Rhodamin B Peroral Subakut Terhadap Perubahan Ketinggian Mukosa Gaster Tikus Putih Galur Wistar (*Rattus norvegicus Strain Wistar*). *Jurnal Publikasi*. Vol 13 (2) April.
- Arafah, Masniati, Ariyanti Saleh, Cahyono Kaelan, and Saldy Yusuf. 2017. Pengalaman Spritual Pasien Kanker Kolon Dengan Kolostomi Permanen: Studi Fenomenologi. *Journal of Islamic Nursing* 2(2): 60–68.
- Arifin, Bustanul, and Sanusi Ibrahim. 2018. Struktur, Bioaktivitas Dan Antioksidan Flavonoid. *Jurnal Zarah* 6(1): 21–29.
- Aryani, Novita. 2015. Efek Paparan Rhodamin B Terhadap Perubahan Makroskopis dan Histologi Mukosa Kolon Mencit jantan (*Mus musculus L.*). *Jurnal Pendidikan kimia*. Vol 7(2): 72-77. ISSN: 2085-3653
- Aryani, Novita. 2015. Efek Paparan Rhodamin B Terhadap Perubahan Makroskopis dan Histologi Mukosa Kolon Mencit jantan (*Mus musculus L.*). *Jurnal Pendidikan kimia*. Vol 7(2): 72-77. ISSN: 2085-3653
- Asimwe, S., Borg-Karlson, A., Azeem, M., Mugisha, M., Namutebi, A., & Gakunga, N.J. 2014. Chemical composition and Toxicological evaluation of the aqueous leaf extracts of *Plectranthus amboinicus* Lour. Spreng. *International Journal of Pharmaceutical Science Invention*, 3(2): 19-27.
- Azizah, Nur. 2021. Digital Repository Repository Universitas Jember. *Digital Repository Universitas Jember* (September 2019): 2019–22.
- Balafif, Ragaya Abd. R, Andayani, Y., Gunawan, E. Ryantin. 2013. Analisis

Senyawa Triterpenoid dari hasil fraksinasi ekstrak air buah buncis (*Phaseolus vulgaris* Lin.)

- Benveniste, P. 2002. Sterol Metabolism. In *Arabidopsis Book*; American Society of Plant Biologists: Rockville, MD, USA.
- Bharti, A. C., Shishodia, S., Reuben, J. M., Weber, D., Alexanian, R., Raj-Vadhan, S., Estrov, Z. Talpaz, M., Aggarwal, B. B. 2004. NK-kB and STAT3 are constitutively active in CD138+ Cells derived from multiple myeloma patients, and suppression of these transcription factor leads to apoptosis. *American Society of Hematology*. (8) 103.
- Bray, Freddie et al. 2018. Global Cancer Statistics 2018: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. *CA: A Cancer Journal for Clinicians* 68(6): 394–424. C. M. S. Lestari, dan R. Adiwinarti. 16(1), 15–19.
- Cancer, International Agency for Research on. 2021. Asia Source : Globocan2020. *The Global Cancer Observatory (GLOBOCAN)* 136: 1–2.
- Castellano, J.M. Romero, S. R., Perona, J.S. 2022. Olenolic Acid: Extraction, Characterization and Biological Activity. *Nutrients*. 14-623.
- Chemwatch. 2010. Section 1 - Rhodamine B. *Chemical Product and Company Identification* 1(11): 1–13.
- Choi, J. H., Chung, K. S., Jin, B. R., Cheon, S. Y., Nugroho, A., Roh, S. S., dan An, H. J. 2017. Anti-inflammatory effects of an ethanol extract of *Aster glehni* via inhibition of NF- κ B activation in mice with DSS-induced colitis. *Food and Function*, 8(7), 2611–2620. <https://doi.org/10.1039/c7fo00369b>
- Chudzik M., Korzonek I. S, Kroe W. 2015. Triterpenes as potentially Cytotoxic compounds. *Molecules*. 20: 1610-1625.
- Clevers H. 2013. The intestinal crypt a prototype stem cell compartment. *Cell [Internet]*. Vol. 154(2):274.
- Clevers H. 2013. The intestinal crypt a prototype stem cell compartment. *Cell [Internet]*. Vol. 154(2):274.
- Clevers, H. 2013. *The Intestinal crypt, A propotype Stem Cell Compartment*. Elsevier. inc.
- Conrad, K., Roggenbuck, D., Laass, M.W. 2014. Diagnosis and classification of ulcerative colitis. *Autoimmun Rev*. Vol 13(4–5):463–6.
- Dafallah, A. A, Abdellah, A. M., Abdel-Rahim, E. A., Ahmed, S.H. 2015. Efek fisiologis beberapa pewarna makanan buatan dan alami pada tikus muda albino jantan. *J Teknologi Pangan Res*. Vol. 2: 21-32.
- DeRhoche, T. C., Xiao, S. Y., dan Liu, X. 2014. *Histological evaluation in ulcerative colitis*. *Advance access publikcation*. 2(178-192)
- Desy, Wijaya. 2011. Waspada Zat Aditif dalam Makananmu. Jogjakarta: biku biru. Hal 28-40.

- DiFiore's.2008. *Atlas of Histology with functional correlations*. In Vasa.
- Djojoningrat, D. 2015. Inflammatory Bowel Disease. Buku Ajar Ilmu Penyakit Dalam. Edisi ke-6. Jakarta: Interna Publishing; 2015. hlm 1814–22.
- Dorofeyev, A.E., Vasilenko, I.V., Rassokhina, O.A., Kondratiuk, R.B. 2013. Mucosal barrier in ulcerative colitis and crohn's disease. *Gastroenterol Res Pract*.
- Erben, U., Loddenkennper, C., Spieckermann, S., Heimesaat, M. M., Siegmund, B., Kuehl, A. A. 2016. Histomorfologi radang usus pada model tikus penyakit radang usus (IBD) danrelevansinya dengan IBD pada pria. *Int J Clin Exp Med*. Vol. 9:408-42.
- Eroschenko, Victor P. 2017. *Atlas of Histology with Functional Correlations*, Faizah, A.N., Kundarto, W., dan Sasongko, H. 2021. Uji Aktivitas Antipiretik Kombinasi Ekstrak Etanol Herba Meniran (*Phyllanthus niruri* L.) dan Daun Sambung Nyawa (*Gynura procumbens* L.) Pada Mencit yang Diinduksi Ragi. JPSCR: *Journal of Pharmaceutical Science and Clinical Research*.
- Feng, Y., Li, X. M., Duan X. J., Wang, B. G. 2006. A new acylated iridoid glucoside from *Avicennia marina*. *Chinese Chemical Letters* 17(9): 1201-1204.
- Firmana, Yusrizal Doni. 2018. Pengaruh Terapi Preventif Perasan Air Bawang Putih (*Alium sativum*) Terhadap Kadar Malondialdhide dan Histopatologi Hepar Pada Tikus (*Rattus norvegicus*) Hasil Induksi Rhodamin B melalui Pakan. Skripsi
- Fry, Robert. 2003. *A picture from Philadelphia. Diseases of the Colon and Rectum*. 46(1-5)
- Gamayanti, Komang Ayu Vitriana, Sri Maliawan, and Ketut Siki Kawiyan. 2015. Karakteristik Histologis, Stadium Klinis, Dan Terapi Kanker Kolon Pada Pasien Lanjut Usia Di Rsup Sanglah. *e-Jurnal Medika Udayana* 3(11).
- Ginting, G.A. 2018. Aktivitas ekstrak air daun pirdot (*Saurauia vulcani*, Korth.) terhadap penyembuhan luka eksisi tikus hiperglikemia. Medan: Tesis-Fakultas Farmasi Universitas Sumatera Utara
- Gunasekaran, Venosha, Ni Putu Ekawati, and I Wayan Juli Sumadi. 2019. Karakteristik Klinikopatologi Karsinoma Kolorektal Di RSUP Sanglah, Bali, Indonesia Tahun 2013-2017. *Intisari Sains Medis* 10(3): 552–56.
- Guyton, A.C. and Hall, J.E. 2006. *Textbook of Medical Physiology*. 11th Edition, Elsevier Saunders, Amsterdam.
- Haloho, R. M., & Silitonga, M. (2015). Pengaruh Ekatrak Etanol Daun Bangunbangun (*Plectranthus amboinicus* (Lour) Spreng) Sebagai Preventif Dan Kuratif Terhadap Efek Toksik Rhodamin B Pada Histologi Usus Tikus Putih (*Rattus norvegicus*) The Effect of Ethanol Extract of Bangunbangun Leaf (. 1(3), 86–92.

- Hanauer, S. B., Podolsky, D. K. 2016. Ulcerative colitis. Yamada's Textbook of Gastroenterology Volume Two. United Kingdom: John Wiley & Sons Ltd; hlm 1378–1416
- Hervidea, R., Widiastuti, E. L., Nurcahyani, E., Sutyarso, & Susanto, G. N. 2018. Efek Ekstrak Metanol Makroalga Cokelat (*Sargassum* sp.), Merah (*Gracillaria* sp.) dan Taurin Terhadap Gambaran Histopatologi kolon Mencit Jantan (*Mus musculus*) yang Diinduksi Benzo(a)Piren. *Jurnal Biologi Indonesia*, 14(1).
- Hidayati, Zumara Mufida, I Ketut Berata, and Ni Luh Eka Setiasih. 2019. Studi Histologi Kolon Ayam Broiler Dengan Pemberian Suplemen Asam Butirat. *Buletin Veteriner Udayana* (21): 166.
- Huriyyah, N. Azah Aimmatul. 2019. Analisis Risiko Kesehatan Lingkungan Pajanan Rhodamin B Pada Konsumsi Saus Di SDN Cirendeu 02 Tahun 2019 Analisis Risiko Kesehatan Lingkungan Pajanan Rhodamin B Pada Konsumsi Saus Di Sdn Cirendeu 02 Tahun 2019. *Universitas Islam Negeri Syarif Hidayatullah*: 32–35.
- Jablonska, A., Vukic, J., Sanda, R., Zawal, A., dan Grabowski, M. 2016. First Report Of *Atyaephyra Thyamisensis* Christodoulou, Antoniou, Magoulas & Koukouras, 2012 (Decapoda, Caridea, Atyidae) From Albania And The Republic Of Macedonia Confirmed By Dna Barcodes. online access <https://www.jstor.org/stable/26570932>. 09/04/2023. Vol 91(588-619)
- Jothy, Subramanion L., Zakaria, Z., Chen, Y., Lau Y. L., Latha, L. Y., dan Saidharan S. *Acute Oral Toxicity of Methanolic Seed Extract of Cassia fistula in Mice*. *Molecules* I(16): 5268-5282
- Kamal, Netty. 2010. Pengaruh Bahan Aditif Cmc (Carboxyl Methyl Cellulose) Terhadap Beberapa Parameter Pada Larutan Sukrosa. *Jurnal Teknologi* I(17): 78–85.
- Karam, S.M. 2009. Lineage commitment and maturation of epithelial cells in the gut. *Bioscience*. Vol (1):286–98.
- Khayat, L.I., Essawy, A.E., Sorour, J.M. & Soffar, A. 2018. Sunset Yellow and Allura Red modulate Bcl₂ and COX₂ expression levels and confer oxidative stress-mediated renal and hepatic toxicity in male rats. *PeerJ* 6, e5689
- Kim, H. J. Hawke N., Baldwin A. S. 2006. NF-κB dan IKK sebagai target terapi pada kanker. *Cell Death Differ*. 13 (5)738–747.
- Kim, Y.S. & Ho, S.B. 2010. Intestinal goblet cells and mucins in health and disease: Recent insights and progress. *Curr Gastroenterol Rep*. Vol 12(5):319–30
- Klamper, L., 2006. Transduser sinyal dan aktivator transkripsi (STATs): Target baru obat kemopreventif dan kemoterapi, *Curr. Target Obat Kanker* 6 (2)107–121.

- Kufe, D. W. (2009). *Mucins in cancer: function, prognosis and therapy*.
- Kumar, V., Robbins, S. L., Cotran, R. S. 2007. Buku Ajar Patologi edisi 7 Volume 1. Jakarta. EGC.
- Kusumobroto, H. 2015. Buku ajar ilmu penyakit dalam. II. Tjokroprawiro A, Setiawan PB, Santoso D, Soegiarto G RL, editor. Surabaya: Pusat Penerbitan dan Percetakan Unair.
- Kwon, Y. H., Banskota, S., Wang, H., Rossi, L., Grondin, J. A., Syed., S. A., Yousefi, Y., Schertzer, J. D., Morisson, K., Wade, M.etc. 2022. Chornic exposure to synthetic food colorant Allura Red AC promotes susceptibility to experimental colitis via intestinal serotonin in mice. *Nature communication*. <https://doi.org/10.1038/s41467-022-35309-y>
- Levine, J. S. dan Burakoff, R. 2016. Inflammatory bowel disease: medical considerations. In: Greenberger, N. J., Blumberg, R. S., Burakoff, R., editors. *Current Diagnosis and Treatment Gastroenterology, Hepatology and Endoscopy*. Edisi ke-3. New York: McGraw Hill Education Lange. hlm 26–39.
- Lipinwati. 2021. Inflamasi Bowel Disease. *E-SEHAD*. Vol 2 (2): 141-147
- Lovena, T. N., Harahap, U., Sitorus, P., and Satria, D. 2018. Antioxidant activity and aglucosidase inhibition effect of water extract *Saurauia vulcani* Korth leaves. *J. Innov. Pharm. Biol. Sci.*, vol. 5, no. 3, pp. 47–51, 2018.
- Lupinacci, R. M., Mello, E. S., Coelho, F. F., Arthur, J., Kruger, P., Perini, M. V., Pinheiro, R. S., Fonseca, G. M., Cecconello, I., & Herman, P. (2014). Prognostic implication of mucinous histology in resected colorectal cancerlivermetastases. *Surgery*. <https://doi.org/10.1016/j.surg.2014.01.011>
- Mai, T. T., Moon, J. Y., Song, Y. W., Viet, P. Q., Phuc, P. V., Lee, J. M., Yi, T. H., Cho, M. Cho, S. K. 2012. Ginsenoside F2 Induces Apoptosis Accompanied by Protective Autophagy, In Breast Cancer Stem Cells. *Cancer Lett.* 321 (2) 144–153.
- Martin, K. R. 2006. Targeting apoptosis with dietary bioactive agents. *Experimental Biology and Medicine* 231: 117-129.
- Marzouk, M. M. 2011. *Flavonoid contituens and cytotoxic activity of Erucaria hispanica (L.) Druce growing wild in Egypt*. *Arabian Journal of Chemistry*.
- Mello, R. O., Silva, C. M. G., Fonte, F. P., Silva, D. L. F., Pereira, J. A.,Margarido, N. F., dan Martinez, C. A. R. 2012. *Evaluation of the number of goblet cells in Crypts of the colonic mucosa with and without fecal transit*. *Rev Col Bras.* 39(2):139-145
- Mescher, A. L. 2012. *Junqueira's Basic Histology: Text & Atlas. Acces Medicine*.
- Minarno, Eko Budi. 2016. Analisis Kandungan Saponin Pada Daun Dan Tangkai Daun *Carica pubescens* Lenne & K. Koch. *el-Hayah* 5(4): 143.

- Munhoz, V. M., Longhini, R., Souza, J. R. P., Zequl, J. A. C., Mello, E. V. S. L., Lopes, G. C., dan Mello, J. C. P. 2014. *Extraction of Flavonoids from Tagetes patula: process optimization and screening for biological activity. Rev Bras Farmacogn.* 24(576-583)
- Musa, W. J. A., Situmeang, B., and Sianturi, J. 2019. Anti-cholesterol Triterpenoid Acids from *Saurauia vulcani* Korth. (Actinidiaceae). *Int. J. Food Prop.*, vol. 22, no. 1, pp. 1439– 1444, 2019.
- Nasution, S. M. 2018. Aktivitas Penghambatan Enzim A-Glukosidase Ekstrak Etanol Daun Pirdot (*Saurauia Vulcani* Korth.) Secara *In Vitro*. *Universitas Negeri Medan.* 25-27
- Ningrum, Retno, Elly Purwanti, and Sukarsono. 2016. Identifikasi Senyawa Alkaloid Dari Batang Karamunting (*Rhodomyrtus tomentosa*) Sebagai Bahan Ajar Biologi Retno Ningrum et Al ., Identifikasi Senyawa Alkaloid Indonesia Merupakan Negara Dengan Kekayaan Alam Yang Melimpah . Hampir Segala Jenis Tumbuhan Da. *Jurnal Pendidikan Biologi Indonesia* 2(3): 231–36. <https://media.neliti.com/media/publications/118168-ID> none.pdf%0Ahttp://eprints.umm.ac.id.
- Noviyanti, and Dahude, G. A. 2020. Uji Hambat Ekstrak Daun Pirdot (*Saurauia Vulcani* Korth) Terhadap Pertumbuhan Bakteri *Streptococcus mutans* Di Rongga Mulut Secara In Vitro. *USU Press*. <http://repositori.usu.ac.id/handle/123456789/27025>.
- Nugraheni M., Santoso U., Suparmo, Wuryastuti H. 2011. Potential of *Coleus tuberosus* as an antioxidant and cancer chemoprevention agent. *International Food Research Journal* 18(4): 1471-1480.
- Oesman, N. 2014. Kolitis infeksi. In: Sudoyo AW, Setiyohadi B, Alwi I, K MS, editor. *Buku Ajar Ilmu Penyakit Dalam*. VI. Jakarta: InternaPublishing. hal. 1825–9.
- Orlando, A., Guglielmi, F. W., Katun, M., Orlando, E., Romano, C., Sinagra, E. 2013. Implikasi klinis penyembuhan mukosa dalam pengelolaan pasien dengan penyakit radang usus. *Dig. Liver Dis.* 45, 986–991.
- Padang, Mersy S. & Rotty, L. 2020. Adenokarsinoma Kolon: Laporan Kasus. *e-clinic*. Vol 8(2)
- Pasaribu, G, Hudiyono, S., Budianto, E., Cahyana, A. H., Pari, G.2021. *In-vitro Anticancer Activity Of Saurauia Vulcani Leaf Extracts Against Human Colon Widr And HTC-116 Cancer Cells*. *Rasayan J. Chem.* ISSN: 0974-1496
- Post, S., Jabbar, K. S., Birchenough, G., Arike, L. Akhtar, N., Sjovall, H., Johansson, M. E. V., dan Hansson, G. C. 2019. *Structural weakening of the colonic mucus barrier is an early event in ulcerative colitis pathogenesis. BMJ.*

- Pratiara. 2019. Daun Pirdot untuk Anti Diabetes. Balitbang LHK, Aek Nauli. <http://sinarharapan.net/2019/08/daun-pirdot-untuk-anti-diabetes/>
- Pravda, J. 2005. Review Radical Induction Theory of Ulcerative Colitis. *World J. Gastroenterol*, 11(16):2371-2384.
- Purbowati, E. Rianto, W. S. Dilaga, C. M. S. Lestari, dan R. A. 2014. Bobot dan Panjang Saluran Pencernaan Sapi Jawa dan Sapi Peranakan Ongole di Brebes The Digestive Tract Organs Weight and Length of Java and Ongole Crossbred Bulls in Brebes E. Purbowati, E. Rianto, W. S. Dilaga,
- Purniati, N. K. (Ni), R. (Ratman) Ratman, and M. R. (Minarni) Jura. 2015. Identifikasi Zat Warna Rhodamin B Pada Lipstik Yang Beredar Di Pasar Kota Palu. *Jurnal Akademika Kimia* 4(3): 155–60. <https://www.neliti.com/id/publications/224108/>.
- Puspitasari, Monika Rini, dan Agung Waluyo. 2021. Aplikasi Teori Katharine Kolbaca Pada Kasus Kanker Kolon Pasca Laparatomi Dengan Musik. *Jurnal Medika Usada* 4(1): 1–6.
- Putra, A. A., Magdalena, R., dan Fuadah, Y. N. 2019. Klasifikasi Kanker Usus Besar Menggunakan Metode Ekstraksi Ciri *Principal Component Analysis Dan Klasifikasi Support Vector Machine*. *e-proceeding of Engineering*. Vol 6(2). ISSN: 2355-9365
- Ramina, K. 2019. Profil mikroorganisme intestinal pada pasien kolitis dan non kolitis di RSUD Ulin Banjarmasin [Skripsi]. Banjarmasin: Universitas Lambung Mangkurat
- Ranti, Fatmathalia, Ary Wibowo, Agung, Poewosusanta, Hery, Kustiyah Oktaviani, Ika. 2019. Gambaran Histopatologi Kolon Pasien Koliti di RSUD Ulin Banjarmasin. *Homeostasis*, vol.4 (2): 291-296
- Remo, Andrea et al. 2019. *Morphology and Molecular Features of Rare Colorectal Carcinoma Histotypes*. *Cancers* 11(7): 1–26.
- Rhodamin B on Street Food Pinc Cake That Circulation To Manado City. *Jurnal Ilmiah Sains* 11(2): 7.
- Rubin, D. T., Ananthkrishnan, A. N., Siegel, C. A., Sauer, B. G., Long, M. D. 2019. ACG Clinical Guideline: Ulcerative Colitis in Adults. *Am J Gastroenterol*. Vol 114(3):384–413.
- Sayuti, Muhammad, and Nouva Nouva. 2019. Kanker Kolorektal. *AVERROUS: Jurnal Kedokteran dan Kesehatan Malikussaleh* 5(2): 76.
- Sembiring, F., & Mirwandhono, E. 2016. Analisis Morfometrik Kerbau Lumpur (*Bubalus bubalis*) Kabupaten Karo Sumatera Utara (Morphometric Analysis of Swamp Buffalo (*Bubalus bubalis*) Lokasi dan Waktu Penelitian Bahan Penelitian lokasi penelitian dan ternak kerbau lumpur sebagai objek peneliti. 1(2), 134–145.
- Seo, S., Yoshimura, Y., Uomori, A., Takeda, K., Seto, H., Ebizuka, Y., Sankawa,

- U. 1988. Biosynthesis of triterpenes, ursolic acid and oleanolic acid in tissue cultures of *Rabdosia japonica* Hara fed [5-13C2H2] mevalonolactone and [2-13C2H3] acetate. *J. Am. Chem. Soc.*, 110, 1740–1745.
- Setijono, Marcelino M. 1985. Mencit (*Mus musculus*) Sebagai Hewan Percobaan. skripsi mahasiswa Fakultas Kedokteran Hewan Institut Pertanian Bogor
- Shukla, S., and Sanjay, G. 2010. Apigenin: A Promising Molecule for Cancer Prevention. *Pharmaceutical Research* 27(6): 962–78.
- Silitonga, M., Restuati M., & Silitonga, P. M. 2018. The Benefits of Ethanolic Extract of *Plectranthus Amboinicus* Lour Spreng on Rats Hematology Profile That Provided with Rhodamine-B. *IOP Conference Series: Earth and Environmental Science* 187(1).
- Sinaga, E., Ilyas, S., Hutahaeon, S., dan Sitorus P. 2020. Ekstrak Etanol Pirdot (*Saurauia vulcani* Korth) sebagai Imunostimulan pada Tikus (*Rattus norvegicus*). *Yayasan Ilmiah SPIROSKI Skopje*, Republik Makedonia. 8(A):256-260. ISSN:1857-9655
- Sinaga, E., Ilyas, S., Sitorus, P. 2020. Effect of ethanolic leaf extract of *Saurauia vulcani* Korth on lymphocyte and IL-inimmunized rats. *Int. J. Serv. Technol. Manag* 1 (3), 220–229.
- Sinaga, Erlintan, Syafruddin Ilyas, Salomo Hutahaeon, and Panal Sitorus. 2019. Immunostimulatory Activity from Pirdot Leaves Ethanolic Extract (*Saurauia vulcani* Korth.) in Rats (*Rattus Norvegicus*). *IOP Conference Series: Earth and Environmental Science* 305(1).
- Sitorus, P. 2015. Characterization *Simplisia* and Ethanolic Extract of Pirdot (*Saurauia vulcani*, Korth) Leaves and Study of Antidiabetic Effect in Alloxan Induced Diabetic Mice. *Int. J. ChemTech Res.*, vol. 8, no. 6, pp. 789–794.
- Sitorus, Panal. 2015. *Characterization Simplisia and Ethanolic Extract of Pirdot (Saurauia vulcani, Korth) Leaves and Study of Antidiabetic Effect in Alloxan Induced Diabetic Mice. International Journal of ChemTech Research* 8(6): 789–94.
- Situmeang, A. A. 2021. Pengaruh Ekstrak Etanol Daun Pirdot (*Saurauia vulcani* Korth.) Terhadap Gambaran Histologi Paru Tikus Putih (*Rattus norvegicus*) yang terpapar Asap Rokok. 24-26
- Situmeang, B., Suparman, A. R., Kadarusman, M., Parumbak, S., & Herlina, T. 2018. Isolasi Senyawa Triterpenoid dari Ekstrak Etil Asetat Pirdot (*Saurauia vulcani*. Korth). *J. Kim. Val.* 4(2), 93-97.
- Sjamsuhidajat, R., W. Karnadihardja, T. O. H. Prasetyono, and R. Rudiman. Buku ajar ilmu bedah Sjamsuhidajat-de jong. *Edisi ke-3. Jakarta: EGC* (2011): 706-22.

- Sumiati, Triyani, Ferry Effendi, and Rina arifah puspitasari. 2019. Uji Toksisitasekstrak Daun Sirsak (*Annona Muricata* L.) Yang Berpotensi Sebagai Antikanker. *Jurnal Farmamedika (Pharmamedica Journal)* 1(2): 85–91.
- Suparman, A R, M Kadarusman, and B Situmeang. 2018. Senyawa Triterpenoid Dari Tumbuhan Pirdot (*Sauralia* Sp). *Jurnal Itekima* 3(1): 12–19. <http://stakc.ac.id/wp-content/uploads/2020/01/ITEKIMA-Volume-3-Februari-2018.pdf#page=16>.
- Szkudelska, K dan Nogowski, L. 2007. *Genistein-A dietary compound inducing hormonal and metabolic changes. The journal of Steroid Biochemistry & Melocular Biology.* 105(37-45)
- Tasaso, Penpun. 2015. Optimization of Reaction Conditions for Synthesis of Carboxymethyl Cellulose from Oil Palm Fronds. *International Journal of Chemical Engineering and Applications* 6(2): 101–4.
- Tati, Suhendra. 2003. Ancaman Karsinogenik Disekitar Kita. Majalah Natural edisi-9. Lampung: FMIPA Universitas Lampung
Thirteenth Edition. Idaho, Moscow
- Topcua T., Ertasb A., Kolakb U., Öztürk M., Ulubelen A. 2007. Antioxidant activity tests on novel triterpenoids from *Salvia macrochlamys*. *ARKIVOC* 7: 195-208.
- Treuting & Dintzis. 2012. Skin and Adnexa. USA
- Tsuda, S. 2001. DNA damage induced by red food dyes orally administered to pregnant and male mice. *Toxicol. Sci.* 61: 92–99
- Van, D.P.S, Jabbar, K.S., Birchenough, G., Arike, L., Akhtar, N., Sjovall, H. 2019. Structural weakening of the colonic mucus barrier is an early event in ulcerative colitis pathogenesis. *Gut.* Vol. 68(12):2142–51
- Wahyudi, A. I. 2011. Pengaruh Ekstrak Kedelai (*Glycine max (L.)Meril*) terhadap Apoptosis Sel Kanker Kolon pada Tikus Putih (*Rattus norvegicus*) yang diinduksi DMBA. *Mahkota Cinta.* 24-25
- Wang, Q., Jin, J., Han, N., Han J., dan Bao, B.2016. Anti-inflammatory effects, nuclear magnetic resonance identification, and high-performance liquid chromatography isolation of the total flavonoids from *Artemisia frigida*. *Jurnal of Food & Drug Analysis.* 24(385-391)
- Wijayani, Arum, Khoirul Ummah, and Siti Tjahjani. 2010. *Characterization Of Carboxy Methyl Cellulose (CMC) From Eichornia Crassipes (Mart) Solms.* *Indonesian Journal of Chemistry* 5(3): 228–31.
- Yamlean, Paulina V Y. 2011. Identification and Determination Level of Rhodamin B on Street Food Pinc Cake That Circulation to Manado City. *Jurnal ilmiah Sains:* 11(2)
- Yantiss, Rhonda K. 2015. *Advances In Surgical Pathology Colorectal Carcinoma*

- And Tumors Of The Vermiform Appendix. *Philadelphia*: United States
- Yulianti, Nurheti. 2007. *Awas! Bahaya Dibalik Lezatnya Makanan*. Yogyakarta: CV. ANDI; 2007. P. 92- 93.
- Zhang, Q. 2015. Traditional and complementary medicine in primary health care, in Alexander Medcalf, Sanjoy Bhattacharya, H. M. M. S. and M. J. (ed.) *Health For All : The Journey of Universal Health Coverage*. Orient Blackswan Private Limited 3-6-752, pp. 93–98.doi: 10.26530/oopen_576912.



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