

## DAFTAR PUSTAKA

- Abou Baker, D. H. (2022). An Ethnopharmacological Review On The Therapeutical Properties Of Flavonoids And Their Mechanisms Of Actions: A Comprehensive Review Based On Up To Date Knowledge. Dalam *Toxicology Reports* (Vol. 9, hlm. 445–469). Elsevier Inc. <https://doi.org/10.1016/j.toxrep.2022.03.011>
- Achika, J. I., Arthur, D. E., Gerald, I., & Adedayo, A. (2014). A Review on the Phytoconstituents and Related Medicinal Properties of Plants in the Asteraceae Family. Dalam *IOSR Journal of Applied Chemistry* (Vol. 7, Nomor 8). [www.iosrjournals.org](http://www.iosrjournals.org)
- Adithya Koirewoa, Y., & Indayany Wiyono, W. (2012). *Isolasi Dan Identifikasi Senyawa Flavonoid Dalam Daun Beluntas (Pluchea indica L.)*.
- Agus Syahrurachman, Aidilfiet Chatim, AminSoebandrio W.K., Anis Karuniawati, A.U.S Santoso, B.M. Hasrul Harun, Budiman Bela, Fera Soemarsono, H. Abdul Rahim, H. Karsinah, Lina Isjah, Lucky Hartati Moehario, Mardiasuti H. W., Mathilda Lintong, Miriam Triyanti R., N. Asmono, Pratiwi Sudarmono, Retno I. Sastrosoewignjo, Robert Utji, ... Usman Chatib Warsa. (2009). *Buku Ajar Mikrobiologi Kedokteran Edisi Revisi* (Staf Pengajar Bagian Mikrobiologi Fakultas Universitas Indonesia, Ed.; Edisi revisi). Binapura Aksara.
- Akiyama, H., Fujii, K., Yamasaki, O., Oono, T., & Iwatsuki, K. (2001). Antibacterial Action of Several Tannins Against *Staphylococcus aureus*. *Journal of Antimicrobial Chemotherapy*, 48(48), 487–491.
- Alshehri, F. A. (2016). Knowledge and attitude of Saudi individuals toward self-perceived halitosis. *Saudi Journal for Dental Research*, 7(2), 91–95. <https://doi.org/10.1016/j.sjdr.2015.11.003>
- Andarwulan, N., Batari, R., Sandrasari, D. A., Bolling, B., & Wijaya, H. (2010). Flavonoid Content And Antioxidant Activity Of Vegetables From Indonesia. *Food Chemistry*, 121(4), 1231–1235. <https://doi.org/10.1016/j.foodchem.2010.01.033>
- Anjani, Mathur, J., & Srivastava, N. (2023). Value Added Bioactive Compounds From Fruits & Vegetables Waste For Assessing Their Antimicrobial Activity. *World Journal Of Microbiology And Biotechnology*, 39(3). <https://doi.org/10.1007/s11274-022-03488-x>
- Anonim. (1985). Cara Pembuatan Simplisia. Dalam *Kementerian Kesehatan Republik Indonesia*. Departemen Kesehatan RI.
- Anonim. (2000). Parameter Standar Umum Ekstrak Tumbuhan Obat. Dalam *Kementerian Kesehatan Republik Indonesia*. Departemen Kesehatan RI.
- FHI. (2017). *Farmakope Herbal Indonesia Edisi Ii 2017 Kementerian Kesehatan Republik Indonesia 615.1 Ind F*. Departemen Kementerian Kesehatan RI.

- Aryantini, D., Nurifaningtyas, N., & Agustina, L. (2020). Karakterisasi Ekstrak Etanol Daun Beluntas Berdasarkan Perbedaan Tempat Tumbuh Di Provinsi Jawa Timur. *Seminar Hasil Penelitian Tahun 2020 Diseminasi Hasil Penelitian Untuk Meningkatkan Kesehatan*, 15–20.
- Birk Yehudith. (1969). Saponins. Dalam *Toxic Constituents of Plant Foodstuffs* (hlm. 169–210). Elsevier. <https://doi.org/10.1016/b978-0-12-395739-9.50012-x>
- Breed R., Murray E.G.D, Smith Nathan R., & Ninty-four Contributors. (1957). *Bergey's Manual of Determinative Bacteriology* (7th ed.). The Williams & Wilking Company.  
<https://archive.org/details/bergeysmanualofd1957amer/mode/2up?ref=ol&view=heater>
- Bribi, N. (2018). Pharmacological Activity of Alkaloids: A Review. *Asian Journal of Botany, 1*. <https://doi.org/10.63019/ajb.v1i2.467>
- Brooks G.F., Carroll Karen C., Butel Janet S., Morse Stephen A., & Mietzner Timothy A. (2013). *Jawetz, Melnick & Adelberg's Medical Microbiology* (26th ed.). McGraw-Hill Professional.
- Chan, E. W. C., Ng, Y. K., Wong, S. K., & Chan, H. T. (2022). Plucea indica: An updated review of its botany, uses, bioactive compounds and pharmacological properties. *Pharmaceutical Sciences Asia, 49*(1), 77–85. <https://doi.org/10.29090/PSA.2022.01.21.113>
- Chang, Y. C., Yang, C. Y., Sun, R. L., Cheng, Y. F., Kao, W. C., & Yang, P. C. (2013). Rapid single cell detection of Staphylococcus aureus by aptamer-conjugated gold nanoparticles. *Scientific Reports, 3*. <https://doi.org/10.1038/srep01863>
- Chiangnoon, R., Samee, W., Uttayarat, P., Jittachai, W., Ruksiriwanich, W., Sommano, S. R., Athikomkulchai, S., & Chittasupho, C. (2022). Phytochemical Analysis, Antioxidant, and Wound Healing Activity of Plucea indica L. (Less) Branch Extract Nanoparticles. *Molecules, 27*(3). <https://doi.org/10.3390/molecules27030635>
- Choma, I. M., & Grzelak, E. M. (2011). Bioautography detection in thin-layer chromatography. Dalam *Journal of Chromatography A* (Vol. 1218, Nomor 19, hlm. 2684–2691). <https://doi.org/10.1016/j.chroma.2010.12.069>
- Cowan, M. M. (1999). *Plant Products as Antimicrobial Agents* (Vol. 12, Nomor 4). <http://cmr.asm.org/>
- de Rijke, E., Out, P., Niessen, W. M. A., Ariese, F., Gooijer, C., & Brinkman, U. A. T. (2006). Analytical separation and detection methods for flavonoids. Dalam *Journal of Chromatography A* (Vol. 1112, Nomor 1–2, hlm. 31–63). <https://doi.org/10.1016/j.chroma.2006.01.019>

- Donowarti, I., & Dayang Diah, F. (2020). Pengamatan Hasil Olahan Daun Beluntas (*Pluchea Indica* L.) Terhadap Sifat Fisika Dan Kimianya. *Teknologi Pangan : Media Informasi dan Komunikasi Ilmiah Teknologi Pertanian*, 11(2), 118–134. <https://doi.org/10.35891/tp.v11i2.2166>
- Echeverría, J., Opazo, J., Mendoza, L., Urzúa, A., & Wilkens, M. (2017). Structure-Activity And Lipophilicity Relationships Of Selected Antibacterial Natural Flavones And Flavanones Of Chilean Flora. *Molecules*, 22(4). <https://doi.org/10.3390/molecules22040608>
- Evan Lusida, T. T., Hermanto, B., & Sudarno. (2017). *The Antibacterial Effect Of Roselle (Hibiscus sabdariffa) Extract Against Staphylococcus Epidermidis In Vitro Plant Material Extraction*.
- Fandini, T., Arumsari, A., Cahya, G., & Darma, E. (2021). *Kajian Pustaka Uji Aktivitas Antibakteri Tanaman Suku Zingiberaceae dan Sediaan Mikroemulsinya terhadap Bakteri Penyebab Bau Badan Staphylococcus epidermidis*. <https://doi.org/10.29313/v0i0.30475>
- Farhamzah, Herli, A., & Mursal, I. L. P. (2021). Formulation and Antibacterial Activity Test of Foot Spray with Beluntas Leaf Ethanol Extract (*Pluchea Indica* L.). *IOP Conference Series: Materials Science and Engineering*, 1071(1), 012013. <https://doi.org/10.1088/1757-899x/1071/1/012013>
- Fatmi, M., Wibowo, A. E., & Rahmat, D. (2020). Uji Efektivitas Ekstrak Kombinasi Daun Beluntas (*Pluchea Indica* L. Less) dan Rimpang Jahe Merah (*Zingiber Officinale* Roscoe) terhadap Bakteri Penyebab Jerawat. *FITOFARMAKA: Jurnal Ilmiah Farmasi*, 10(2), 97–105. <https://doi.org/10.33751/jf.v10i2.2170>
- Febrina, L., Rusli, R., & Muflifah, F. (2015). Optimalisasi Ekstraksi dan Uji Metabolit Sekunder Tumbuhan Libo (*Ficus variegata* Blume). *Journal of Tropical Pharmacy and Chemistry*, 3(2), 74–81. <https://doi.org/10.25026/jtpc.v3i2.153>
- Gallucci, M. N., Oliva, M., Casero, C., Dambolena, J., Luna, A., Zygadlo, J., & Demo, M. (2009). Antimicrobial Combined Action of Terpenes Against the Food-Borne Microorganisms *Escherichia Coli*, *Staphylococcus Aureus* And *Bacillus Cereus*. *Flavour Fragr. J*, 24, 348–354. <https://doi.org/10.1002/ffj>
- Guimarães, A. C., Meireles, L. M., Lemos, M. F., Guimarães, M. C. C., Endringer, D. C., Fronza, M., & Scherer, R. (2019). Antibacterial Activity of Terpenes and Terpenoids Present in Essential Oils. *Molecules*, 24(13). <https://doi.org/10.3390/molecules24132471>
- Harborne J.B. (1996). *Metode Fitokimia: Penuntun Cara Modern Menganalisis Tumbuhan* (Kosasih Padmawinata, Iwang soediro, & Sofia Niksolihin, Ed.; Terbitan Kedua). ITB.

- Hariyati, N. (2023). *Perbandingan Kadar Flavanoid Sebagai Marker Anti Radikal Bebas pada Ekstrak Etanolik Daun Beluntas (Pluchea indica L.) yang Tumbuh di Dataran Rendah (Margoyoso) dan Tinggi (Colo)*. Universitas Islam Sultan Agung.
- Haryani, F., Hakim, A., & Hanifa, N. I. (2021). Perbandingan Pelarut Etanol 96% dan Aseton pada Ekstraksi dan Isolasi Kurkuminoid dari Rimpang Kunyit. *Jurnal Ilmu Kefarmasian*, 2(2).
- Hussain, H., Al-Harrasi, A., Abbas, G., Rehman, N. U., Mabood, F., Ahmed, I., Saleem, M., Van Ree, T., Green, I. R., Anwar, S., Badshah, A., Shah, A., Ali, I., & Chair, U. (2013). The Genus Pluchea: Phytochemistry, Traditional Uses, and Biological Activities. Dalam *Verlag Helvetica Chimica Acta AG* (Vol. 10).
- Ibrahim, S. R. M., Bagalagel, A. A., Diri, R. M., Noor, A. O., Bakhsh, H. T., & Mohamed, G. A. (2022a). Phytoconstituents and Pharmacological Activities of Indian Camphorweed (Pluchea indica): A Multi-Potential Medicinal Plant of Nutritional and Ethnomedicinal Importance. *Molecules*, 27(8). <https://doi.org/10.3390/molecules27082383>
- Ibrahim, S. R. M., Bagalagel, A. A., Diri, R. M., Noor, A. O., Bakhsh, H. T., & Mohamed, G. A. (2022b). Phytoconstituents and Pharmacological Activities of Indian Camphorweed (Pluchea indica): A Multi-Potential Medicinal Plant of Nutritional and Ethnomedicinal Importance. *Molecules*, 27(8). <https://doi.org/10.3390/molecules27082383>
- Irianti, T., Puspitasari, A., & Suryani, E. (2011). Aktivitas Penangkapan Radikal 2,2-Difenil-1-Pikrilhidrazil Oleh Ekstrak Etanolik Batang Brotowali (Tinospora Crispa (L.) Miers) Dan Fraksi-Fraksinya the Activity Of Radical Scavenging Of 2,2-Diphenyl-1-Pycrilhydrazil By Ethanolic Extracts Of (Tinospora Crispa (L.) Miers) Stem And Its Fractions. Dalam *Majalah Obat Tradisional* (Vol. 16, Nomor 3).
- Jork, Hellmut., Wegner Funk, Walter Fischer, & Hans Wimmer. (1990). *Thin-Layer Chromatography: Reagents and Detection Methods*. VCH.
- Kabera, J. N., Semana, E., Mussa, A. R., & He, X. (2014). Plant Secondary Metabolites: Biosynthesis, Classification, Function and Pharmacological Properties. Dalam *Journal of Pharmacy and Pharmacology* (Vol. 2).
- Klau, M. H. C., & Hesturini, R. J. (2021). Pengaruh Pemberian Ekstrak Etanol Daun Dandang Gendis (Clinacanthus nutans (Burm F) Lindau) Terhadap Daya Analgetik Dan Gambaran Makroskopis Lambung Mencit. *Jurnal Farmasi & Sains Indonesia*, 4(1), 6–12. <https://doi.org/10.52216/jfsi.v4i1.59>
- Koc, S., Isgor, B. S., Isgor, Y. G., Shomali Moghaddam, N., & Yildirim, O. (2015). The Potential Medicinal Value of Plants from Asteraceae Family with Antioxidant Defense Enzymes as Biological Targets. *Pharmaceutical Biology*, 53(5), 746–751. <https://doi.org/10.3109/13880209.2014.942788>

- Lacaille-Dubois, M. A., & Wagner, A. (2000). *Bioactive Saponins from Plants: An Update* (Vol. 21).
- Marsasi, B., Yuwono, Y., & Salni, S. (2019). Perbandingan antara Pemberian Fraksi Daun Beluntas (*Pluchea Indica* Lees) dan Ketokonazol Secara Invitro Terhadap *Candida Albicans*. *Biomedical Journal of Indonesia: Jurnal Biomedik Fakultas Kedokteran Universitas Sriwijaya*, 5(1), 20–29. <https://doi.org/10.32539/bji.v5i1.7974>
- Meyers, C. L. F., & Meyers, D. J. (2008). Thin-layer chromatography. Dalam *Current Protocols in Nucleic Acid Chemistry* (Nomor SUPPL. 34). <https://doi.org/10.1002/0471142700.nca03ds34>
- Mierza, V., Antolin, A., Ichسانی, A., Dwi, N., Sridevi, S., & Dwi, S. (2023). Research Article: Isolasi dan Identifikasi Senyawa Terpenoid. *Jurnal Surya Medika*, 9(2), 134–141. <https://doi.org/10.33084/jsm.v9i2.5681>
- Murphy, K. J., Chronopoulos, A. K., Singh, I., Francis, M. A., Moriarty, H., Pike, M. J., Turner, A. H., Mann, N. J., & Sinclair, A. J. (2003). Printed in USA. Dalam *Am J Clin Nutr* (Vol. 77).
- Nahor, E. M., Ulaen, S. P. J., Dumanauw, J. M., Rindengan, E. R., Aurora, ), Manolang, C., Politeknik, J. F., Kementerian, K., & Manado, K. (2022). *Metabolomics in Pharmacy: Peluang dan Tantangan Kefarmasian dalam Penemuan, Pengembangan, dan Evaluasi Mutu Obat Bahan Alam*.
- National Center for Biotechnology Information. (2023, November 2). *PubChem Taxonomy Summary for Taxonomy 175518, Pluchea indica*. <https://pubchem.ncbi.nlm.nih.gov/taxonomy/Pluchea-indica>.
- Ngajow, M., Abidjulu, J., & Kamu, V. S. (2013). Pengaruh Antibakteri Ekstrak Kulit Batang Matoa (*Pometia pinnata*) terhadap Bakteri *Staphylococcus aureus* secara In vitro. *Jurnal MIPA Universitas Sam Ratulangi (Online)*, 2(2), 123–132.
- Nor, I., Rahmita, S., Nashihah, S., Syarkawi, J. G., Bakti, H., & Selatan, K. (2022). Potensi Antibakteri Ekstrak Etanol Daun Beluntas (*Pluchea Indica* L.) Terhadap Bakteri *Staphylococcus Epidermidis* Antibacterial Potential of Beluntas Leaf (*Pluchea Indica* L.) Ethanol Extract Against *Staphylococcus Epidermidis* Bacteria. Dalam *Medical Sains: Jurnal Ilmiah Kefarmasian* (Vol. 7, Nomor 4).
- Notoatmojo Soekidjo. (2018). *Metode Penelitian Kesehatan* (Edisi Cetakan Ketiga). Rineka Cipta.
- Nugraha, A. S., Purnomo, Y. D., Widhi Pratama, A. N., Triatmoko, B., Hendra, R., Wongso, H., Avery, V. M., & Keller, P. A. (2022). Isolation of Antimalarial Agents from Indonesian Medicinal Plants: *Swietenia mahagoni* and *Pluchea indica*. *Natural Product Communications*, 17(1), 1934578X2110689. <https://doi.org/10.1177/1934578X211068926>

- Pakata, I. F. (2013). *Uji Aktivitas Antimikroba Dari Ekstrak Dan Fraksi Aktif Buah Cabai Katokkon (Capsicum Annuum L. Var. Chinensis) Secara Klt-Bioautografi*. Universitas Hasanuddin.
- Panda, S. K., Da Silva, L. C. N., Sahal, D., & Leonti, M. (2019). Editorial: Ethnopharmacological studies for the development of drugs with special reference to Asteraceae. Dalam *Frontiers in Pharmacology* (Vol. 10). Frontiers Media S.A. <https://doi.org/10.3389/fphar.2019.00955>
- Paputungan, W. A., Lolo, W. A., & Siampa, P. (2019). *Aktivitas Antibakteri Dan Analisis Klt-Bioautografi Dari Fraksi Biji Kopi Robusta (Coffea canephora Pierre ex A. Froehner)*.
- Pargaputri, A. F., Munadziroh, E., & Indrawati, R. (2017). Antibacterial effects of *Pluchea indica* Less leaf extract on *E. faecalis* and *Fusobacterium nucleatum* (in vitro). *Dental Journal (Majalah Kedokteran Gigi)*, 49(2), 93. <https://doi.org/10.20473/j.djmk.v49.i2.p93-98>
- Parker C. (2012). *Pluchea indica (Indian camphorweed)*. <https://doi.org/10.1079/cabicompndium.116400>
- Purboyati K. (2013). Uji Daya Hambat Ekstrak Daun Beluntas (*Pluchea Indica* Less) Terhadap Pertumbuhan *Aeromonas hydrophila* [Bachelor, Universitas Muhammadiyah Purwokerto]. Dalam *Skripsi*. <https://repository.ump.ac.id:80/id/eprint/723>
- Purwanti, E., Mahmudati, N., Faradila, S. F., & Fauzi, A. (2020). Utilization of plants as traditional medicine for various diseases: Ethnobotany study in SumeNep, Indonesia. *AIP Conference Proceedings*, 2231. <https://doi.org/10.1063/5.0002430>
- Rahalison, L., Hamburger, M., Hostettmann, K., Monod, M., & Frenk, E. (1991). A Bioautographic Agar Overlay Method for the Detection of Antifungal Compounds from Higher Plants. Dalam *PHYTOCHEMICAL ANALYSIS* (Vol. 2).
- Rahayu, W. P., Nurjanah, S., & Komalasari, E. (2018). *Escherichia coli: Patogenitas, Analisis dan Kajian Risiko*. IPB Press.
- Ramdani, K., Mulqie, L., & Maulana, I. T. (2020). *Eksplorasi Beberapa Tanaman yang Memiliki Aktivitas Antibakteri terhadap Staphylococcus epidermidis Penyebab Bau Badan*. <https://doi.org/10.29313/v6i2.23922>
- Ríos, J. L., & Recio, M. C. (2005). Medicinal plants and antimicrobial activity. Dalam *Journal of Ethnopharmacology* (Vol. 100, Nomor 1–2, hlm. 80–84). Elsevier Ireland Ltd. <https://doi.org/10.1016/j.jep.2005.04.025>
- Rolnik, A., & Olas, B. (2021). The plants of the asteraceae family as agents in the protection of human health. Dalam *International Journal of Molecular Sciences* (Vol. 22, Nomor 6, hlm. 1–10). MDPI AG. <https://doi.org/10.3390/ijms22063009>

- Samuelsson G., & Bohlin Lars. (2009). *Drug of Natural Origin* (6th ed.). Swedish Pharmaceutical Press. <https://archive.org/details/drugsofnaturalor0000gunn/page/8/mode/1up?view=theater>
- Sanjeet Kumar, K. Jyotirmayee, & Monalisa Sarangi. (2013). *Thin Layer Chromatography: A Tool of Biotechnology for Isolation of Bioactive Compounds from Medicinal Plants*.
- Sasidharan, S., Chen, Y., Saravanan, D., Sundram, K. M., & Latha, L. Y. (2011). Extraction, Isolation and Characterization of Bioactive Compounds from Plants' Extracts. Dalam *Afr J Tradit Complement Altern Med* (Vol. 8, Nomor 1).
- Saxena, M., Saxena, J., Nema, R., Singh, D., & Gupta, A. (2013). Phytochemistry of Medicinal Plants. *Journal of Pharmacognosy and Phytochemistry*, 1(6). [www.phytojournal.com](http://www.phytojournal.com)
- Shahverdi, A. R., Abdolpour, F., Monsef-Esfahani, H. R., & Farsam, H. (2007). A TLC bioautographic assay for the detection of nitrofurantoin resistance reversal compound. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, 850(1–2), 528–530. <https://doi.org/10.1016/j.jchromb.2006.11.011>
- Shaikh, J. R., & Patil, M. (2020). Qualitative tests for preliminary phytochemical screening: An overview. *International Journal of Chemical Studies*, 8(2), 603–608. <https://doi.org/10.22271/chemi.2020.v8.i2i.8834>
- Skerman V.B.D., McGowan, & Sneath P.H.A. (1980). Approved Lists of Bacterial Names. *International Journal of Systematic Bacteriology*, 225–420.
- Susetyarini, E., Wahyono, P., Latifa, R., & Nurrohman, E. (2020). The Identification of Morphological and Anatomical Structures of *Pluchea indica*. *Journal of Physics: Conference Series*, 1539(1). <https://doi.org/10.1088/1742-6596/1539/1/012001>
- SusyLOWATI, D., & TAKARINA, N. D. (2019). Phytochemistry screening and total flavonoid test on plants associated mangrove (*Pluchea indica* and *Sesuvium portuculastrum* Leaves) at Blanakan, Subang, West Java. *AIP Conference Proceedings*, 2168. <https://doi.org/10.1063/1.5132511>
- Tambun, R., Alexander, V., & Ginting, Y. (2021). Performance comparison of maceration method, soxhletation method, and microwave-assisted extraction in extracting active compounds from soursop leaves (*Annona muricata*): A review. *IOP Conference Series: Materials Science and Engineering*, 1122(1), 012095. <https://doi.org/10.1088/1757-899x/1122/1/012095>
- Tinrat, S. (2021). Phytochemical Screening, Antioxidant and Antimicrobial Assessment Of *Pluchea Indica* (L.) Less Extract As An Active Ingredient In Natural Lotion

Bar. *International Journal of Current Pharmaceutical Research*, 51–57.  
<https://doi.org/10.22159/ijcpr.2021v13i2.41555>

Uysal, S., Cvetanović, A., Zengin, G., Zeković, Z., Mahomoodally, M. F., & Bera, O. (2019). Optimization of Maceration Conditions for Improving the Extraction of Phenolic Compounds and Antioxidant Effects of *Momordica Charantia* L. Leaves Through Response Surface Methodology (RSM) and Artificial Neural Networks (ANNs). *Analytical Letters*, 52(13), 2150–2163.  
<https://doi.org/10.1080/00032719.2019.1599007>

Wahyuni, R., & Rivai, H. (2014). Pengaruh Cara Pengeringan Dengan Oven, Kering Angin Dan Cahaya Matahari Langsung Terhadap Mutu *Simplisia Herba Sambiloto*. Dalam *Jurnal Farmasi Higea* (Vol. 6, Nomor 2).

Yan, Y., Li, X., Zhang, C., Lv, L., Gao, B., & Li, M. (2021). *Antibiotics Review Research Progress on Antibacterial Activities and Mechanisms of Natural Alkaloids: A Review*. <https://doi.org/10.3390/antibiotics>

Yuniarni, U., & Prayugo, D. (2016). Antibacterial Activity of *Pluchea indica* and Piper betle Ethanol Extract on *Staphylococcus epidermidis* and *Pseudomonas aeruginosa*. *Pharmacology and Clinical Pharmacy Research*, 62–68.