

REFERENCES

- Dzoyem, J. P., Melong, R., Tsamo, A. T., Maffo, T., Kapche, D. G. W. F., Ngadjui, B. T., McGaw, L. J., Eloff, J. N., 2017, Cytotoxicity, Antioxidant and Antibacterial Activity of Four Compounds Produced by an Endophytic Fungus *Epicoccum nigrum* Associated with *Entada abyssinica*, *Braz. J. Pharm. Sci.*, 27, 251-253.
- Eklund, P. C., Langvik, O. K., Warna, J. P., Salmi, T. O., Wilifor, S. M., Sjöholm, R. E., 2005, Chemical Studies on Antioxidant Mechanisms and Free Radical Scavenging Properties of Lignans, *Org. Biomol. Chem.*, 3 (18), 3336-33347.
- El-Nakeeb, M. A., Lechevalier, H. A., 1962, Selective Isolation of Aerobic Actinomycetes, *Appl. Microbiol.*, 11, 75-77.
- Elyashberg, M., 2015, Identification and Structure Elucidation by NMR Spectroscopy, *Trends. Analyt. Chem.*, 69, 88-97.
- Gopalakrishnan, S., Beale, M. H., Ward, J.L., Strange, R.N., 2005, Chickpea wilt: Identification and Toxicity of 8-O-Methyl-Fusarubin from *Fusarium acutatum*, *Phytochem.*, 66, 1536-1539.
- Gouda, S., Das, G., Sen, S. K., Shin, H. S., Patra, J. K., 2016, Endophytes: a Treasure House of Bioactive Compounds of Medicinal Importance, *Front Microbiol.*, 7 (1538), 1-8.
- Greenfield, M., Pareja, R., Ortiz, V., Jimenez, M. I. G., Vega, F. E., Parsa, S., 2015, A Novel Method to Scale Up Fungal Endophyte Isolations, *Biocon. Sci. Techn.*, 25 (10), 1208-1212.
- Gunatilaka, A. A. L., 2006, Natural Products from Plant-Associated Microorganisms, *J. Nat. Prod.*, 69, 509-526.
- Gunatilaka, A. A. L., Wijeratne, E. M. K., 2010, Natural Products from Bacteria and Fungi, *J. Pharmacogn. Phytochem.*, 1-27.
- Hajnos, M.W., Sherma, J., Kowalska, T., 2008, Thin Layer Chromatography in Phytochemical, *Chromatography Science Series*, 99, New York: CRC Press.
- Harper, J. K., Arif, A. M., Ford, E. J., Strobel, G. A., Porco, J. A., Tomer, D. P., O'Neill, K. L., Heider, E. M., Grant, D. M., 2003, Pestacin: a 1,3-Dihydro Isobenzofuran from *Pestalotiopsis Microspora* Possessing Antioxidant and Antimycotic Activities, *Tetrahedron*, 59, 2471-2476.

- Hurd, N., Salkin, A.F., 1972, Quantitative Evaluation of The Antifungal Properties of Cycloheximide, *Antimicrob. Agents. CH.*,1(3), 177-184.
- Jia, M., Chen, L., Xin, H. L., Zeng, C. J., Rahman, K., Han, T., Qin, L. P., 2016, A Friendly Relationship Between Endophytic Fungi and Medicinal Plants: A Systematic Review, *Front. Microbiol.*, 7, 906.
- Kagamizono, T., Nishino, E., Matsumoto, K., Kawahima, A., Kishimoto, M., Sakai, N., He, B. M., Chen, Z. X., Adachi, T., Morimoto, S., Hanada, K., 1995, Bassiatin, A New Platelet Aggregation Inhibitor Produced by *Beauveria bassiana* K-717, *J. Antibiot.*, 48 (12), 1407-1412.
- Khan, Md. I. H., Sohrab, Md. H., Rony, S. R., Tareq, F. S., Hasan, C. M., Mazid, Md. A., 2016, Cytotoxic and Bacterial Naphtoquinones from an Endophytic Fungus, *Cladosporium* sp, *Toxicol. Rep.*, 3, 861-865.
- Khan, N., Afroz, F., Begum, M. N., Rony, S. R., Sharmin, S., Moni, F., Hasan, C. M., Shaha, K., Sohrab, Md. H., 2018, Endophytic *Fusarium solani*: A Rich Source of Cytotoxic and Antimicrobial Napthaquinone and Aza-Anthraquinone Derivatives, *Toxicol. Rep.*, 5, 970-976.
- Khan, R. A., 2018, Natural Products Chemistry: The Emerging Trends and Prospective Goals, *Saud. Pharm. J.*, 26, 739-753.
- Kumar, A., Patil, D., Rajamohanam, P. R., Ahmad A., 2013, Isolation, Purification and Characterization of Vinblastine and Vincristine from Endophytic Fungus *Fusarium Oxysporum* Isolated from *Catharanthus roseus*, *PloSOne*, 8 (9), 71805.
- Kundu, A., Saha, S., Walia, S., Dutta, T. K., 2016, Anti-Nemic Secondary Metabolites Produced by *Fusarium Oxysporum* F. Sp. Ciceris, *J.Asia-Pac. Entomol.*, 19, 631-636.
- Kwan, E. E., Huang, S. G., 2008, Structural Elucidation with NMR Spectroscopy: Practical Strategies for Organic Chemists, *Eur. J. Org. Chem.* 2671-2688.
- Leili, H., Li, X. M., Liu, H., Meng, L. H., Wang, B. G., 2016, Two New Diphenylketones and a New Xanthone from *Talaromyces islandicus* EN-501, an Endophytic Fungus Derived from the Marine Red Alga *Laurencia okamurai*, *Mar. Drugs.*, 14 (12), 223.
- Li, G., Wang, H., Zhu, R., Sun, L., Wang, L., Li, M., Li, Y., Liu, Y., Zao, Z., Lou, H., 2012, Phaeosphaerins A-F, Cytotoxic Perylenequinones from an Endolichenic Fungus *Phaeosphaeria* sp, *J. Nat. Prod.*, 75, 142-147.

- Li, J.Y., Strobel, G., Harper, K., Lobkovsky, E., Clardy, J., 2000, Cryptocin, a Potent Tetramic Acid Antimycotic from The Endophytic Fungus *Cryptosporiopsis* cf. *Quercina*, *Org. Lett.*, 2(6), 767-770.
- Li, S. J., Zhang, X., Wang, X. H., Zhao, C. Q., 2018, Novel Natural Compounds from Endophytic Fungi with Anticancer Activity, *Eur. J Med. Chem*, 156, 316-343.
- Li, X., Wu, X., Huang, L., 2009, Correlation Between Antioxidant Activities and Phenolic Contents of Radix *Angelice Sinesis* (danggui), *Molecules*, 14, 5349-5361.
- Liang, N., Kitts, D.D., 2014, Antioxidant Property of Coffee Components: Assessment of Methods That Define Mechanisms of Action, *Molecules*, 19, 19180-19208.
- Lin, D., Xiao, M., Zhao, J., Li, Z., Xing, B., Li, X., Kong, M., Li, L., Zhang, Q., Liu, Y., Chen, H., Qin, W., Wu, H., Chen, S., 2016, An Overview of Plant Phenolic Compounds and Their Importance in Human Nutrition and Management of Type 2 Diabetes, *Molecules*, 21, 1374.
- Logrieco, A., Moretti, A., Castella, G., KostECKI, M., Golinsk, P., Ritieni, A., ChelkowsKI, J., 1998, Beauvericin Production by *Fusarium* Sp., *App. Env. Microbiol.*, 64(8), 3084-3088.
- Logrieco, A., Mule, G., and Bottalico, A., 2002, Toxigenic *Fusarium* sp. and Mycotoxins Associated with Maize Ear Rot in Europe, *Eur. J. Plant. Pathol*, 108 : 597-609.
- Ma, L. J., Geiser, D. M., Proctor, R. H., Rooney, A. P., Donnel, K. O., Trail, F., Gardiner, D. M., Manners, J. M., Kazan, K., 2013, *Fusarium* Pathogenomics, *Annu. Rev. Microbiol*, 67 : 399-416.
- Madane, P. D., Sapkal, P. M., Palshikar, M. N., 2017, An Overview on Different Chromatographic Techniques, *Int.J. Pharm. Pharm. Res.*, 8 (2), 149-161.
- Manganyi, M.C., Regnier, T., Olivier, E.I., 2015, Antimicrobial Activities of Selected Essential Oils Against *Fusarium Oxysporum* Isolates and Their Biofilms, *S. Afr. J. Bot.*, 99, 115-121.
- Maplestone, R. A., Stone, M.J, Williams, D, H., 1992, The Evolutionary Role of Secondary Metabolites: A Review, *Elsevier*, 115, 151-157.
- Marasas, W. F. O., Rabie, C. J., Lubben, A., Nelson, P. E., Toussoun, T. A., Wyk, S. V., 1987, *Fusarium napiforme*, a New Species from Millet and Sorghum in Southern Africa, *Mycologia*, 79 (6): 910-914.

- Moharram, H. A., Youssef, M. M., 2014, Methods for Determining The Antioxidant Activity: A Review, *Alex. J. FD. Sci. Tech.*, 11 (1), 31-42.
- Mulinacci, N., Prucher, D., Peruzzi, M., Romani, A., Pinelli, P., Giaccherini, C., Vincieri, F. F., 2004, Commercial and Laboratory Extracts from Artichoke Leaves: Estimation of Caffeoyl Esters and Flavonoidic Compounds Content, *J. Pharm. Biomed. Anal.*, 34, 349–357.
- Nikmawahda, H. T., 2018, Isolation and Characterization of Oxaspirol Derivatives Produced by Fungal Endophyte *Fusarium Solani* B18 Isolated from Merapi Forest Litters, *Thesis-Repository Universitas Gadjah Mada*, Yogyakarta.
- Oh, H., Kim, T., Oh, G. S., Pae, H. O., Hong, K. H., Chai, K. Y., Kwon, T. O., Chung, H. T., Lee, H. S., 2002, (3*R*,6*R*)-4-methyl-6-(1-methylethyl)-3-phenylmethyl-perhydro-1,4-oxazine-2,5-dione: An Apoptosis-Inducer from the Fruiting Bodies of *Isaria japonica*, *Planta Med.*, 68, 345-348.
- Ola, A. R. B, Aly, A. H., Lin, W., Wray, V., Debbab, A., 2014, Structural Revision and Absolute Configuration of Lateritin, *Tetrahedron Lett.*, 55, 6184-6187.
- Rodriguez, R. J., White-Jr, J. F., Arnold, A. E., Redman, R. S., 2009, Fungal Endophytes : Diversity and Functional Roles, *New Phytol*, 182 : 314-330.
- Schulz, B., Boyle, C., Draeger, S., Rommert, A. K., Khron, K., 2002, Endophytic Fungi: A Source of Novel Biologically Active Secondary Metabolites, *Mycol. Res.*, 106, 996-1004.
- Sharma , O. P., Bhat, T. K., 2009, DPPH Antioxidant Assay Revisited, *Food Chemistry*, 113 (122-1205).
- Smith, S. N., 2007, An Overview of Ecological and Habitat Aspects in the Genus *Fusarium* with Special Emphasis on the Soil-Borne Pathogenic Forms, *Plant Pathol. Bull.*, 16: 97-120.
- Souza, M., Matsuzawa, T., Lyra, L., Lopes, A. F. B., Gonoï, T., Schreiber, A. Z., Kamei, K., Moretti, M. L., Trabasso, P., 2014, *Fusarium Napiforme* Systemic Infection: Case Report with Molecular Characterization and Antifungal Susceptibility Test, *Springerplus*, 3, 492.
- Spurr, S. H., 1964, History, Ecology, and Forestry Research, New York Ronald Press, 352.

- Steyn, P., Weesels, P. L., Marasa, W. F. O., 1978, Pigments from *Fusarium moniliforme* Sheldon. Structure and ¹³C Nuclear Magnetic Resonance Assignments of an Azaanthraquinone and Three Naphthoquinones. *Tetrahedron.*, 35, 1551-1555.
- Strobel, G. A., 2003, Endophytic as Sources of Bioactive Products, *Microb. Infect. J.*, 5, 535-544.
- Strobel, G., Daisy, B., Castillo, U., and Harper, J., 2004, Natural Products from Endophytic Microorganisms, *J. Nat. Prod.*, 67, 257-268.
- Takemoto, K., Kamisuki, S., Chia, P. T., Kuriyama, I., Mizushina, Y., Sugawara, F., 2014, Bioactive Dihydronaphthoquinone Derivatives From *Fusarium solani*, *J. Nat. Prod.*, 77, 1992-1996.
- Tan, R. X., Zou, W. X., 2001, Endophytes: A Rich Source of Functional Metabolites, *J. Nat. Prod.*, 18, 448-459.
- Trisuwan, K., Khamthong, N., Rukachaisirikul, V., Phongpaichit, S., Preedanon, S, Sakayaroj, J., 2010, Anthraquinone, Cyclopentanone, and Naphthoquinone Derivatives from the Sea Fan-Derived Fungi *Fusarium* spp. PSU-F14 and PSU-F135, *J. Nat. Prod.*, 73, 1507-1511.
- Trisuwan, K., Rukachaisirikul, V., Borwornwiriyan, K., Phongpaichit, S., Sakayaroj, J., 2013, Pyrone Derivatives from the Soil Fungus *Fusarium solani* PSU-RSPG37, *Phytochem Lett.*, 6, 495-497.
- Vasavi, Y., Parthiban, N., Kumar, D. S., Banji, D., Srisutherson, N., Gosh, S., Chakravarthy, M. V. K., 2011, Heteronuclear Multiple Bond Correlation Spectroscopy-an Overview, *Int. J. Pharm. Tech.*, 3 (3), 14410-14422.
- Wijeratne, E. M., Bashyal, B. P., Gunatilaka, M. K., Arnold, E., Gunatilaka, A. A. L., 2010, Maximizing Chemical Diversity of Fungal Metabolites: Biogenetically Related Heptaketides of The Endolichenic Fungus *Corynespora* sp., *J. Nat. Prod.*, 73, 1156-1159.
- Wilson, D., 1995, Endophyte: The Evolution of a Term, and Clarification of Its Use and Definition, *Oikos*, 73 (2), 274-276.
- Zao, J., Fu, Y., Luo, M., Zu, Y., Wang, W., Zhao, C., Gu, C., 2012, Endophytic Fungi from Pigeon Pea *Cajanus cajan* L. Produce Antioxidant Cajaninstilbene Acid, *J. Agri. Food Chem.*, 60 (17), 4314-4319.
- Zaynab, M., Fatima, M, Abbas, S., Sharif, Y., Umair, M., Zafar, M. H., Bahadar, K., 2018, Role of Secondary Metabolites in Plant Defense Against Pathogen, *Microb Pathog.*, 124, 198-202.