

REFERENCE

- Abbas, A.K., Lichtman, A.H.H., 2010. *Basic Immunology: Functions and Disorders of the Immune System*, 3rd ed. Saunders, Philadelphia, Pennsylvania.
- Abercrombie, M., 1978. The cells Fibroblasts. *J. Clin. Pathol. Suppl. (R. Coll. Pathol.)* 12, 1–6.
- Adetutu, A., Morgan, W.A., Corcoran, O., 2011. Antibacterial, Antioxidant and Fibroblast Growth Stimulation Activity of Crude Extracts of *Bridelia ferruginea* Leaf, a Wound-Healing Plant of Nigeria. *J. Ethnopharmacol.* 133, 116–119.
- Alam, P., Hasan, Y., Aftab, A., 2013. HPTLC Densitometric Method for Analysis of Thymoquinone in *Nigella sativa* Extracts and Marketed Formulations. *Asian Pac. J. Trop. Dis.* 3, 467–471.
- Alberts, B., Johnson, A., Lewis, J., Walter, P., Raff, M., Roberts, K., 2002. *Molecular Biology of the Cell*, 4th ed. Garland Science, Taylor and Francis Group, LLC, New Jersey, USA.
- Ammerman, N.C., Beier-Sexton, M., Azad, A.F., 2008. Growth and Maintenance of Vero Cell Lines. *Curr. Protoc. Microbiol.* Appendix–4E.
- Barrett, P.N., Mundt, W., Kistner, O., Howard, M.K., 2009. Vero Cell Platform in Vaccine Production: Moving Towards Cell Culture-Based Viral Vaccines. *Expert Rev. Vaccines* 8, 607–618.
- Barros, M.E.S.B., Freitas, J.C.R., Oliveira, J.M., da Cruz, C.H.B., da Silva, P.B.N., de Araújo, L.C.C., *et al.*, 2014. Synthesis and Evaluation of (-)-Massoialactone and Analogues as Potential Anticancer and Anti-Inflammatory Agents. *Eur. J. Med. Chem.* 76, 291–300.
- Blanch, A.R., Méndez, J., Castel, S., Reina, M., 2014. Comparison of Procedures for the Extraction of Supernatants and Cytotoxicity Tests in Vero Cells, Applied to Assess the Toxigenic Potential of *Bacillus* Spp. and *Lactobacillus* Spp., Intended for Use as Probiotic Strains. *J. Microbiol. Methods* 103, 64–69.
- Boehnke, K., Mirancea, N., Pavesio, A., Fusenig, N.E., Boukamp, P., Stark, H.-J., 2007. Effects of Fibroblasts and Microenvironment on Epidermal Regeneration and Tissue Function in Long-Term Skin Equivalents. *Eur. J. Cell Biol.*, 86, 731–746.

- Bustanussalam, Susilo, H., Nurhidayati, E., 2012. Identifikasi Senyawa Dan Uji Aktivitas Ekstrak Etil Asetat Kulit Kayu Massoi (*Cryptocarpa massoy*). *Sci. J. Pharm.* 2, 67 – 76.
- Bryan, A.M., Farnoud, A.M., Mor, V., Del Poeta, M., 2014. Macrophage Cholesterol Depletion and Its Effect on the Phagocytosis of *Cryptococcus neoformans*. *Journal of Visualized Experiments*. 9, 107 - 118.
- Chandra, J., McCormick, T.S., Imamura, Y., Mukherjee, P.K., Ghannoum, M.A., 2007. Interaction of *Candida albicans* with Adherent Human Peripheral Blood Mononuclear Cells Increases *C. albicans* Biofilm Formation and Results in Differential Expression of Pro- and Anti-Inflammatory Cytokines. *Infect. Immun.* 75, 2612–2620.
- Chew, B.P., Park, J.S., 2009. *The Immune System*, in: Britton, D.G., Pfander, P.D.H., Liaaen-Jensen, P.D.D. h c S., Carotenoids. Birkhäuser Basel, Swiss, pp. 363–382.
- Crevel, R., 2005. *Lymphocyte Proliferation*, in: Vohr, H.W., Encyclopedic Reference of Immunotoxicology. Springer, pp. 401–405.
- Darwis, D., Hertiani, T., Ediati, S., 2014. The Effects of Hydnophytum formicarum Ethanolic Extract Towards Lymphocyte, Vero and T47d Cells Proliferation in Vitro. *J. Appl. Pharm. Sci.* 4, 103–109.
- DeFranco, A., Locksley, R.M., Robertson, M., 2007. *Immunity: The Immune Response in Infectious and Inflammatory Disease*. New Science Press. United Kingdom
- Dinakaran, H., 2008. Characteristics of *Candida albicans* Biofilm Formation in Synthetic Urine Medium. *Thesis*. The University of Texas, San Antonio.
- Edwards, J.P., Zhang, X., Frauwirth, K.A., Mosser, D.M., 2006. Biochemical and Functional Characterization of Three Activated Macrophage Populations. *J. Leukoc. Biol.* 80, 1298–1307.
- Ellis, D.S., Stamford, S., Tvoey, D.G., Lloyd, G., Bowen, E.T., Platt, G.S., *et al.*, 1979. Ebola and Marburg Viruses: Their Development Within Vero Cells and the Extra-Cellular Formation of Branched and Torus Forms. *J. Med. Virol.* 4, 213–225.
- Ene, I.V., Cheng, S.-C., Netea, M.G., Brown, A.J.P., 2013. Growth of *Candida albicans* Cells on the Physiologically Relevant Carbon Source Lactate Affects Their Recognition and Phagocytosis by Immune Cells. *Infect. Immun.* 81, 238–248.

- Freshney, R.I., 2011. *Culture of Animal Cells: A Manual of Basic Technique and Specialized Applications*. 6 th ed. John Wiley & Sons. New Jersey.
- Gao, X., Kuo, J., Jiang, H., Deeb, D., Liu, Y., Divine, G., *et al.*, 2004. Immunomodulatory Activity of Curcumin: Suppression of Lymphocyte Proliferation, Development of Cell-Mediated Cytotoxicity, and Cytokine Production in Vitro. *Biochem. Pharmacol.* 68, 51–61.
- Garay, P.A., McAllister, A.K., 2010. Novel Roles for Immune Molecules in Neural Development: Implications for Neurodevelopmental Disorders. *Front. Synaptic Neurosci.* 2, 136.
- García-Gareta, E., Ravindran, N., Dye, J.F., 2015. Apoptotic Primary Normal Human Dermal Fibroblasts for in Vitro Models of Fibrosis. *Anal. Biochem.* 470, 22–24.
- Gibbons, S., 2012. *An Introduction to Planar Chromatography and Its Application to Natural Products Isolation*, in: Sarker, S.D., Nahar, L., Natural Products Isolation. Humana Press, Totowa, New Jersey, pp. 97 – 108.
- Gibbons, S., Gray, A., 1998. *Isolation by Planar Chromatography*, in: Cannell, R.J.P., Natural Products Isolation, Methods in Biotechnology. Humana Press, Totowa, New Jersey, pp. 209 – 245.
- Gomez-Flores, R., L.Verastegui-Rodriguez, Quintanilla-Licea, R., Tamez-Guerra, P., Tamez-Guerra, R., Rodriguez-Padilla, C., 2008. In Vitro Rat Lymphocyte Proliferation Induced by *Ocinum basilicum*, *Persea americana*, *Plantago virginica*, and *Rosa* spp. Extracts. *J. Med. Plants Res.* 2, 005–010.
- Gordon, S., Martinez, F.O., 2010. Alternative Activation of Macrophages: Mechanism and Functions. *Immunity* 32, 593–604.
- Gow, N.A.R., van de Veerdonk, F.L., Brown, A.J.P., Netea, M.G., 2012. *Candida albicans* Morphogenesis and Host Defence: Discriminating Invasion from Colonization. *Nat. Rev. Microbiol.* 10, 112–122.
- Hajra, S., Metha, A., Padey, P., 2012. Immunostimulating Activity of Methanolic Extract of *Swietenia mahagoni* Seeds. *Int. J. Pharm. Pharm. Sci.* 4, 442 – 445.
- Horimoto, T., Kawaoka, Y., 2006. Strategies for Developing Vaccines Against H5N1 Influenza a Viruses. *Trends Mol. Med.* 12, 506–514.
- Hübschmann, H.-J., 2015. *Handbook of GC-MS: Fundamentals and Applications*. John Wiley & Sons.

- Kalid, O., Warshaviak, D.T., Shechter, S., Sherman, W., Shacham, S., 2012. Consensus Induced Fit Docking (cFID): Methodology, Validation, and Application to the Discovery of Novel Crm1 Inhibitors. *J. Comput. Aided Mol. Des.* 26, 1217–1228.
- Khajanchi, B.K., Kirtley, M.L., Brackman, S.M., Chopra, A.K., 2011. Immunomodulatory and Protective Roles of Quorum-Sensing Signaling Molecules N-Acyl Homoserine Lactones during Infection of Mice with *Aeromonas hydrophila*. *Infect. Immun.* 79, 2646–2657.
- Kideryová, L., Lacina, L., Dvořánková, B., Štork, J., Čada, Z., Szabo, P., *et al.*, 2009. Phenotypic Characterization of Human Keratinocytes in Coculture Reveals Differential Effects of Fibroblasts from Benign Fibrous Histiocytoma (Dermatofibroma) as Compared to Cells from Its Malignant Form and to Normal Fibroblasts. *J. Dermatol. Sci.* 55, 18–26.
- Kim, W.-S., Park, B.-S., Sung, J.-H., Yang, J.-M., Park, S.-B., Kwak, S.-J., *et al.*, 2007. Wound Healing Effect of Adipose-Derived Stem Cells: A Critical Role of Secretory Factors on Human Dermal Fibroblasts. *J. Dermatol. Sci.* 48, 15–24.
- Klosterman, L., 2009. *Immune System. Amazing Human Body*. Marshall Cavendish, New York.
- Kondo, A., 1998. JCRB0533:TIG-112 [Document]. JCBR Cell Bank. URL <http://cellbank.nibio.go.jp/legacy/celldata/jcrb0533.htm>(accessed 5.28.15).
- Koroch, A.R., Juliani, H.R., Zygadlo, J.A., 2007. *Bioactivity of Essential Oils and Their Components*, in: Berger, P.D.R.G., Flavours and Fragrances. Springer Berlin Heidelberg, pp. 87–115.
- Lee, C.-J., Chen, L.-W., Chen, L.-G., Chang, T.-L., Huang, C.-W., Huang, M.-C., *et al.*, 2013. Correlations of the Components of Tea Tree Oil with Its Antibacterial Effects and Skin Irritation. *J. Food Drug Anal.* 21, 169–176.
- Lee, G., 2014. *Biomedical Engineering and Environmental Engineering*. WIT Press, United Kingdom.
- Lee, J.K., Kim, D.B., Kim, J.I., Kim, P.Y., 2000. In Vitro Cytotoxicity Tests on Cultured Human Skin Fibroblasts to Predict Skin Irritation Potential of Surfactants. *Toxicol. In Vitro* 14, 345–349.
- Lee, K.-H., Huang, E.-S., Piantadosi, C., Pagano, J.S., Geissman, T.A., 1971. Cytotoxicity of Sesquiterpene Lactones. *Cancer Res.* 31, 1649–1654.
- Lee, S.W., Southall, J.C., Gleason, N.R., Huang, E.H., Bessler, M., Whelan, R.L., 2014. Time Course of Differences in Lymphocyte Proliferation Rates After Laparotomy Vs CO₂ Insufflation. *Surg. Endosc.* 14, 145–148.

- Levenbook, I.S., Petricciani, J.C., Elisberg, B.L., 1984. Tumorigenicity of Vero cells. *J. Biol. Stand.* 12, 391–398.
- Liao, T.T., Shi, Y.L., Jia, J.W., Jia, R.W., Wang, L., 2010. Sensitivity of Morphological Change of Vero Cells Exposed to Lipophilic Compounds and Its Mechanism. *J. Hazard. Mater.* 179, 1055–1064.
- Luo, H., Tu, G., Liu, Z., Liu, M., 2015. Cancer-Associated Fibroblasts: A Multifaceted Driver of Breast Cancer Progression. *Cancer Lett.* 361, 155–163.
- Meijer, T.M., 1940. The essential oil of Massoi bark. *Recl. Trav. Chim. Pays-Bas* 59, 191–201.
- Miedema, J., Odé, C., Dam, R.A.C., Baak, C., 1998. The Socio-Economic Value of Sosolot Product. *Proceedings of the Conference Perspectives on the Bird's Head of Irian, Jaya, Indonesia*, Leiden, 411 - 443.
- Mingfang, L., Varley, A.W., 2013. Harvest and Culture of Mouse Peritoneal Macrophages [Document]. Bio Protoc. URL <http://www.bio-protocol.org/e976> (accessed 5.5.15).
- Mishaël, A.P., Daniel, J.D., 2011. *The Epidemiology of Invasive Candidiasis*, in: Ricard, A.C., Cornelius, J.C., *Candida and Candidiasis*. American Society for Microbiology Press, USA.
- Mizusawa, H., 2003. JCBR0111:vero, Cell Line [WWW Document]. JCBR Cell Bank. URL <http://cellbank.nibio.go.jp/legacy/celldata/jcrb0111.htm> (accessed 5.28.15).
- Nathan, C., Shiloh, M.U., 2000. Reactive Oxygen and Nitrogen Intermediates in the Relationship Between Mammalian Hosts and Microbial Pathogens. *Proc. Natl. Acad. Sci. U. S. A.* 97, 8841–8848.
- Nau, R., Tauber, S.C., 2008. Immunomodulatory Properties of Antibiotics. *Curr. Mol. Pharmacol.* 1, 68–79.
- Netea, M.G., Gijzen, K., Coolen, N., Verschueren, I., Figdor, C., Van der Meer, J.W.M., *et al.*, 2004. Human Dendritic Cells Are Less Potent at Killing *Candida albicans* Than Both Monocytes and Macrophages. *Microbes Infect. Inst. Pasteur* 6, 985–989.
- Netea, M.G., Gow, N.A.R., Munro, C.A., Bates, S., Collins, C., Ferwerda, G., *et al.* 2006. Immune Sensing of *Candida albicans* Requires Cooperative Recognition of Mannans and Glucans by Lectin and Toll-Like Receptors. *J. Clin. Invest.* 116, 1642–1650.

- Netea, M.G., Maródi, L., 2010. Innate Immune Mechanisms for Recognition and Uptake of *Candida* Species. *Trends Immunol.* 31, 346–353.
- Osada, N., Kohara, A., Yamaji, T., Hirayama, N., Kasai, F., Sekizuka, T., *et al.* 2014. The Genome Landscape of the African Green Monkey Kidney-Derived Vero Cell Line. *DNA Res.* 21, 673–683.
- Parham, P., 2014. *The Immune System*, 4 th. ed. Garland Science, Taylor and Francis Group, LLC, USA.
- Parnham, M.J. dan Wagner, H., 2012. *Immunomodulatory Agents from Plants*. Birkhäuser, Swiss.
- Parrillo, J.E., Dellinger, R.P., 2013. *Critical Care Medicine: Principles of Diagnosis and Management in the Adult*. Elsevier Health Sciences. Australia.
- Phelps, K., Hasset, C., 2012. *Immune System: General Practice The Integrative Approach*. Elsevier Health Sciences. Australia
- Pichler, W.J., Tilch, J., 2004. The Lymphocyte Transformation Test in the Diagnosis of Drug Hypersensitivity. *Allergy* 59, 809–820.
- Pratiwi, S.U.T., Lagendijk, E.L., Weert, S. de, Hertiani, T., Idroes, R., Hondel, C.A.V.D., 2015. Effect of *Cinnamomum burmannii* Nees ex Bl. and *Massoia aromatica* Becc. Essential Oils on Planktonic Growth and Biofilm formation of *Pseudomonas aeruginosa* and *Staphylococcus aureus* In Vitro. *Int. J. Appl. Res. Nat. Prod.* 8, 1–13.
- Rahman, M., Haider, J., Akter, T., Hashmi, M.S., 2014. Technique for *Assessing The Properties of Advance Ceramic Material*, in: Hashmi, M.S., *Comprehensive Materials Processing*. Elsevier Publication, Italy.
- Rali, T., Wossa, S.W., Leach, D.N., 2007. Comparative Chemical Analysis of the Essential Oil Constituents in the Bark, Heartwood and Fruits of *Cryptocarya masseyi* (Oken) Kosterm. (Lauraceae) from Papua New Guinea. *Molecules* 12, 149–154.
- Rasyid, R., 2010. Peranan Vitamin C Pada Aktivitas Fagositosis Makrofag Terhadap *Candida albicans* Pada Mukosa Vagina Wanita Hamil Secara in Vitro [Document]. Repos. Univ. Andalas. URL <http://repository.unand.ac.id/742/> (accessed 8.25.14).
- Riss, T.L., Moravec, R.A., Niles, A.L., 2011. Cytotoxicity Testing: Measuring Viable Cells, Dead Cells, and Detecting Mechanism of Cell Death. *Methods Mol. Biol.* 740, 103–114.

- Rittie, L., Fisher, G.J., 2005. *Isolation and Culture of Skin Fibroblas*, in: Varga, J., Brenner, D., Phan, S.H., *Fibrosis Research: Methods and Protocols*. Springer Science & Business Media, p. 83.
- Romero, D., Gómez-Zapata, M., Luna, A., García-Fernández, A.J., 2004. Morphological Characterization of Renal Cell Lines (BGM and Vero) Exposed to Low Doses of Lead Nitrate. *Histol. Histopathol.* 19, 69–76.
- Rosales, C., 2008. *Molecular Mechanisms of Phagocytosis*. Springer Science & Business Media. New York, USA.
- Roshan, N., Savitri, P., 2013. Review on Chemical Constituents and Parts of Plants as Immunomodulators. *Res. J. Pharm. Biol. Chem. Sci.* 4, 76 – 89.
- Sakurazawa, T., Ohkusa, T., 2005. Cytotoxicity of Organic Acids Produced by Anaerobic Intestinal Bacteria on Cultured Epithelial Cells. *J. Gastroenterol.* 40, 600–609.
- Sheet, R., 2000. *History and Characterization of the Vero Cell Line* (No. 5695.00May-8A10:05). U.S. Public Service Home, US.
- Sommar, P., Pettersson, S., Ness, C., Johnson, H., Kratz, G., Junker, J.P.E., 2010. Engineering Three-Dimensional Cartilage- and Bone-Like Tissues Using Human Dermal Fibroblasts and Macroporous Gelatine Microcarriers. *J. Plast. Reconstr. Aesthet. Surg.* 63, 1036–1046.
- Spilsbury, K., O'Mara, M.A., Wu, W.M., Rowe, P.B., Symonds, G., Takayama, Y., 1995. Isolation of a Novel Macrophage-Specific Gene by Differential cDNA Analysis. *Blood* 85, 1620–1629.
- Stein, M., Keshav, S., Harris, N., Gordon, S., 1992. Interleukin 4 Potently Enhances Murine Macrophage Mannose Receptor Activity: A Marker of Alternative Immunologic Macrophage Activation. *J. Exp. Med.* 176, 287–292.
- Subroto, A., Melcher, H., 2008. *Gempur Penyakit Dengan Minyak Herbal Papua*. Agro Media Pustaka, Jakarta.
- Syamsudin, Darmono, Kusmardi, 2008. The Effect of *Garcinia parvifolia* Miq (Active Fraction) on Phagocytosis by Peritoneal Macrophages During *Plasmodium berghei* Infection in Mice. *Res. J. Immunol.* 1, 16 – 20.
- Tatarczuch, L., Bischof, R.J., Philip, C.J., Lee, C.-S., 2002. Phagocytic Capacity of Leucocytes in Sheep Mammary Secretions Following Weaning. *J. Anat.* 201, 351–361.
- Teixeira, M.B., 2013. *Design Controls for the Medical Device Industry*, 2nd ed. CRC Press, US.

- Tisserand, R., Young, R., 2013. *Essential Oil Safety: A Guide for Health Care Professionals*, 2nd. ed. Elsevier Health Sciences, China.
- Triantafilou, M., Triantafilou, K., 2012. *Cell Surface Molecular Chaperones and the LPS Receptor*, in: Henderson, B., Pockley, A.G., Cellular Trafficking of Cell Stress Proteins in Health and Disease, Heat Shock Proteins. Springer Netherlands, pp. 151–165.
- Turgeon, M.L., 2005. *Clinical Hematology: Theory and Procedures*, 4th ed. Lippincott Williams & Wilkins, Philadelphia, PA.
- Ullah, N., Khan, M.A., Khan, T., Asif, A.H., Ahmad, W., 2014. *Mentha piperita* in Nephrotoxicity – a Possible Intervention to Ameliorate Renal Derangements Associated with Gentamicin. *Indian J. Pharmacol.* 46, 166–170.
- Varga, J., Brenner, D., Phan, S.H., 2005. *Fibrosis Research: Methods and Protocols*. Humana Press, Totowa, New Jersey.
- Vikström, E., Magnusson, K.-E., Pivoriūnas, A., 2005. The *Pseudomonas aeruginosa* Quorum-Sensing Molecule N-(3-Oxododecanoyl)-L-Homoserine Lactone Stimulates Phagocytic Activity in Human Macrophages Through the P38 MAPK Pathway. *Microbes Infect.* 7, 1512–1518.
- Wiedosari E. 2005. Perbedaan ekspresi mRNA sitokin antara domba Ekor Tipis dan Merino terhadap infeksi *Fasciola gigantica*. *Disertasi IPB Bogor*.
- Williams, A.E., 2011a. *Basic Concepts in Immunology*, in: Immunology. John Wiley & Sons, Ltd, pp. 1–19.
- Williams, A.E., 2011b. *The Innate Immune System*, in: Immunology. John Wiley & Sons, Ltd, pp. 20–40.
- Williams, A.E., 2011c. *The Adaptive Immune System*, in: Immunology. John Wiley & Sons, Ltd, pp. 41–67.
- Williams, A.E., 2011d. *Immunity to Fungi*, in: Immunology. John Wiley & Sons, Ltd, pp. 258–277.
- Zaki, A.M., van Boheemen, S., Bestebroer, T.M., Osterhaus, A.D.M.E., Fouchier, R.A.M., 2012. Isolation of a Novel Coronavirus from a Man with Pneumonia in Saudi Arabia. *N. Engl. J. Med.* 367, 1814–1820.
- Zhang, X., Goncalves, R., Mosser, D.M., 2008. The Isolation and Characterization of Murine Macrophages. *Curr. Protoc. Immunol.* 1 – 18.