

DAFTAR PUSTAKA

- Abbas AK, Lichtman AH, 2003. Immunity to Tumors. In: Celluler and Molecular Immunology: 5nd edition. Philadelphia;WB Saunders Co: 391-410.
- Adolfo Ro-BVc, Victoria C-Pa, Diana A-Ln, Ricardo LL, Antonio M-RoM, Jos. M, Victor F-G, Rogelio Hn-P, 2006. Macrophage and T lymphocyte apoptosis during experimental pulmonary tuberculosis: their relationship to mycobacterial virulence. *Eur J Immunol* 36: 345-353.
- Agil Mangestuti, Noor Erma Sugianto, Retno R. Widyowati, Purwitasari Neny, 2010. Uji Daya Hambat Mycobacterium Tuberculosis Dari Umbi Bidara Upas (*Merremia Mammosa* Hall). DIPA-RM STRATNAS. Universitas Airlangga.
- AkiraS, Uematsu S, and Takeuchi O, 2006. Pathogen recognition and innate immunity," *Cell* 124(4): 783–801.
- Al-Attayah R, A. El-Shazly, and A. S. Mustafa, 2012. Comparative analysis of spontaneous and mycobacterial antigen-induced secretion of Th1, Th2 and pro-inflammatory cytokines by peripheral blood mononuclear cells of tuberculosis patients. *Scandinavian J of Immunology* 75 (6): 623–632.
- Backer CA and Bakhuizen van den Brink, RC, 1965. Flora of Java, N.V.P. Noordhoff, Groningen, The Netherlands 2: 157-158.
- Bahar A, 2001. Tuberkulosis Paru dalam Tjokronegoro, A., Buku Ajar Ilmu Penyakit Dalam Jilid II, Edisi III. Jakarta : BPFKUI: 819-829.
- Balcewicz-Sablinska, Keane MKJ, Kornfeld H, and Remold HG, 1998. Pathogenic Mycobacterium tuberculosis evades apoptosis of host macrophages by release of TNF-R2, resulting in inactivation of TNF-alpha. *J. Immunol.* 161: 2636–2641.
- Baron EJ, Peterson LR, and Finegold SM, 1994. Myobacteria. In (Bailey & Scott's) Diagnostic Microbiologs, Mosby Year Book, Inc. St. Louis Baltimore Boston, Chicago, London, Madrid, Philadelphia, Sydney, Toronto: 590-633.
- Basaraba RJ, 2008. Experimental tuberculosis: the role of comparative pathology in the discovery of improvement tuberculosis treatment strategies. *Tuberculosis* 88 (1): 535-47.
- Bast DJ, Yue M, Chen X, 2004. Novel murine of peumococcal pneumonia: use of temperature as measure of disease severity to compare the efficacy of moxifloxacin and levofloxacin. *Antimicrob agent Chemoter* 48:3343-48.

- Behar SM, Divangahi M, Remold HG, 2010. Evasion of innate immunity by mycobacterium tuberculosis: is death an exit strategy?, *Nature* 8: 668-74.
- Blackwell J, Searle MS, Goswami T, and Miller EN, 2006. Understanding the multiple functions of Nramp1. *Microbes Infect* 2: 317–321.
- Bratawijaya KG dan Rengganis I, 2010, *Imunologi Dasar*, Edisi 9, Balai Penerbit Fakultas Kedokteran Indonesia, Kakarta: 751.
- Brennan PJ, 2003. Structure, function, and biogenesis of the cell wall of *Mycobacterium tuberculosis*. *Tuberculosis*. Elsevier Science . 83: 91-97.
- Brennan PJ and Draper P., 1994, Ultrastructure of *Mycobacterium tuberculosis*. Dalam: Bloom BR. *Penyunting Tuberculosis: Pathogenesis, Protection and Control*. Washington DC: ASM Press: 271-80.
- Boyd RF, 1995. *Mycobacterial Genetics ; Mycobacterium tuberculosis*. In *Basic Medical Microbiology*. 5th ed. Little Brown and Company. Boston, New York, Toronto, London, pp. 61- 81 ; 331-334.
- Bothamley GH, 1995. Serological diagnosis of tuberculosis. *ERS. Journals. Ltd. Suppl.* 20: 676s-688
- Cardona P.J., Gordillo S., Diaz J. et al. 2000. Widespread bronchogenic dissemination makes DBA/2 mice more susceptible than C57BL/6 mice to experimental aerosol infection with *Mycobacterium Tuberculosis*. *Infect. Immun.* 71: 5845-5854.
- Caruso AM, Serbina N, Klein E, Triebold K, Bloom BR, Flynn JL. , 1999, Mice deficient in CD4 T cells have only transiently diminished levels of IFN- γ , yet succumb to tuberculosis. *J Immunol* 162 : 5407-16.
- Cervino ACS, Lakiss O, Sow, and Hill AV, 2000. Allelic association between the NRAMP1 gene and susceptibility to tuberculosis in Guinea-Conakry. *Ann. Hum. Genet.* 64: 507–512.
- Chen F, Bower J, Demer LM, and Shi X, 2001. Upstream Signal Transduction of NF κ - β Activation Atlas of genetics and Cytogenetic in oncology and hematology E-mil Ifd3@cdc.gov.
- Chairani, Eny, Moelyono MW, Supriyatna, 1984. Penelusuran Senyawa Bioaktif Bidara Upas (*Merremia Mammosa*), Cermin Dunia Farmasi, Jurusan Farmasi fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Padjajaran, Sumedang, Jawa Barat: 26-29.

- Chopra P, Meena LS, & Singh Yogendra, 2003, New drug targets for *Mycobacterium tuberculosis*, Indian J Med Res 117: 1-9
- Collins HL, Kaufmann SHE, 2001, The any Fases of Host Response to Tuberculosis. Immunology 103: 1-9.
- Condos R, Condos R., William N Rom, 2004. Cytokine response in tuberculosis. In (Rom WN and Garay SM, eds).Tuberculosis 2nd. Philadelphia : Lippincott Williams & Wilkins, pp 285-94.
- Cooksey RC, Morlock GP, Mc Queen A, Glickman SE, and Crawford JT, 2003. Characterization of streptomycin resistance mechanisms among *Mycobacterium tuberculosis* isolates from patients in New York City. Antimicrob. Agents and Chemother. 40 (5) : 1186-1188.
- Cooper AM, Dalton DK, Stewart TA, Griffin JP, Russell DG, Orme IM., 2007, Disseminated tuberculosis in interferon gamma gene-disrupted mice. J Exp Med 178 : 2243-7.
- Cooper AM, 2009. "Cell-mediated immune responses in tuberculosis. Annual Review of Immun 27: 393-422.
- Crevel V, Tom HM, Ottenhoff, Jos WM., 2002, Innate immunity to *Mycobacterium tuberculosis*. Clinical microbiology review: 294-309.
- Crofton J, Horne N dan Millier F, 2002. Tuberculosis klinis, Widya Medika, Jakarta.
- Davis BD, Dulbecco R, Eisen HN, and Ginsberg HS, 1990. Growth and death of bacteria ; protein synthesis and localization ; drug resistance ; mycobacteria. In Microbiology. 4thed. J.B. Lippincott Company. Philadelphia: 51- 664.
- Dlugovitzky D, Bay ML, Rateni L, 2004. Influence of disease severity on nitrite and cytokine production by peripheral blood mononuclear cells (PBMC) from patients with pulmonary tuberculosis (TB), J Clinical and Experimental Immunology 122 (3): 343-349.
- Dannenberg AM Jr, Collins FM, 2001, Progressive pulmonary tuberculosis is not due to increasing numbers of viable bacilli in rabbits, mice and guinea pigs, but is due to a continuous host response to mycobacterial products, Tuberculosis 81 (3): 229-242
- Departemen Kesehatan RI, 2009. Pedoman Nasional Penanggulangan Tuberkulosis, Cetakan VIII, Jakarta.
- Dimov,1991. Immunomodulatory action of propolis.Influence on antiinfectious protection and macrophage function. Apidologie 22:155-167

- Djauzi S, 2003. Perkembangan Imunomodulator. Simposium Peranan Echinacea sebagai imunomodulator dalam Infeksi Virus dan Bakteri.
- Djoukeng JD, Abou-Mansour E, Tabacchi R, Tapondjou AL, Boud H, Lonts D, 2005. Antibacterial triterpenes from *Syzygium guineense* (Myrtaceae) J of Ethnopharmacology 101(3): 283-286.
- Dormans J, Burger M, Aguilar D, Hernandez-Pando R, Kremer R, Roholl P, Arendš & D. Van Soolingen, 2004. Correlation of virulence, lung pathology, bacterial load and delayed type hypersensitivity responses after infection with different Mycobacterium tuberculosis genotypes in a BALB/c mouse model
- Dormans, Arbelaez MP, Nelson KR Munoz A, 2004. BCG Vaccine Effectiveness In Preventing Tuberculosis And Its Interaction With Human Immunodeficiency Virus Infection. International J of Epid 29: 1083-1091.
- Elkington P, Shiomi T, Breen R, Nuttal RK, Upgarte-Gill CA, Walke NF, Saraiva L, Pederson B, Mauri F, Lipman M, Edwards DR, Robertson BD, D'Armiento J, Friedland JS, 2011. MMP-1drives immunopathology in human tuberculosis and transgenic mice. J Clin Immunol 121 (5): 1827-1833.
- Emely Ho, 2002. NF-kB What is it and what's the deal with radicals? The virtual Free Radical School, Available from emily.ho@oregonstete.
- Farizal John, 2012, Pengaruh Pemberian Ekstrak Etanol Umbi Bidara Upas (*Merremia mammosa* Hall.) Terhadap Proliferasi Limfosit dan Produksi Roi Makrofag . Studi eksperimen Infeksi Salmonela typhimurium pada Mencit Balb/C. Tesis Magister Ilmu Biomedik Universitas Diponegoro.Semarang.
- Fenton MJ, and Vermeulen MW, 1996. Immunopathology of tuberculosis : Roles of macrophages and-monocytes. Infect and Immun. 64 (3) : 683-690.
- Flesch IEA, Kauffman SHE, 1998. Attempts to characterize the mechanisms involved in Mycobacterium growth inhibition by gamma-interferon-activated bone marrow macrophage. Infection and Immunity 56:1464-9
- Flynn JL, 2005. Immunology of Tuberculosis and implicativaccine development. Tuberculosis 84: 93-101.
- Garrel C, Fontecave M, 1995. Nitric Oxide: Chemistry and Biology. In: Favier et al (editors). Analysis of Free Radicals in Biological System. Switzerland: Birkhäuser Verlag Basel: 23.

- George S, 2002. NF-kB Dependent Signaling Pathways. *Exp Hematology* 30: 285-296.
- Gilmore, DT, 2006. The Rel NF-kB Signal Transduction pathway. Rel NF-kB Transcription factor. Available from gilmore@bu.edu.
- Girling DJ, 1989. The Chemotherapy of tuberculosis. In (Ratledge, Stanford, Grange JM). *The biology of the Myobacteria*. Vol. 3. Harcourt Brance Jovanovich, Publishers Academic Press, London, San Diego, New York, Berkerley, Boston, Sydney, Tokyo, Toronto: 285-323.
- Gaonkar S, Balasubramanian V. Sowmya B, Radha KS, Naveen K, 2010. Aerosol inlcction, model of tuberculosis in Wistar rats. *Int. J Microbiol*: 1-6.
- Guneylioglu P, Yilmaz A, Bilgin S, Bayram Y, Akkaya E, 2004. Factor Affecting Deleys in Diagnosis and Treatment of Puomonary Tuberculosis in Tertiary Care Hospital in Istambul, turkey, *Med sci Monit* 10 (2): 62-67.
- Hackam, DJ, Rotstein OD, Zhang W, S. Gruenheid, Gros P, and .Grinstein S, 2002. Host resistance to intracellular infection: mutation of natural resistance-associated macrophage protein 1 (Nramp1) impairs phagosomal acidification. *J. Exp. Med.* **188**: 351–364.
- Harbon JB, 1987. Metode fitokimia, Penuntun cara modern menganalisa tumbuhan, edisi II, ITB Bandung: 123-131.
- Hopper C, 2009. Overview of NF-kB signaling Neurodegenerative Research, institute of Psychiatry. Available from <http://www.abcam.com/index.html> pageconfig -feedback. Accessed at 10 june 2011
- Heyne K, 1987. *Tanaman Berguna Indonesia III*, Jakarta: Yayasan Sarana Wana Jaya: 1655-1656.
- Ilangumaran, Narayan SNP, Ramu SG, 1994. *Cellular and humoral immune responses to recombinant 65-kD antigen of Mycobacterrium leprae in leprosy patients and helthy controls*. *Clin Exp Immunol* , 96: 79-85.
- Isa M, 2013. Peran TL-R-2, TNF alpha, IL-4, IFN-gamma pada penderita tuberkulosis paru dengan diabetes mellitus. *Dissertasi*. Fakultas Kedokteran Universitas Airlangga: 86-110.
- Ito Y, Pandey P, Place A, Sporn MB, Gribble GW, Honda T., Kharbanda S. and Kufe D, 2000. The Novel Triterpenoid 2-Cyano-3,12-dioxoolean-1,9-dien-28-oic Acid Induces Apoptosis of Human Myeloid Leukemia Cells by a Caspase-8-dependent Mechanism, *Cell Growth & Differentiation* 11: 261–267.

- Joost J, 2001. Cytokines. In: Tristram GP, Daniel PS, Abba IT. Medical Immunology. 10th ed. California; Elsevier: 95-112.
- Jose-Luis Ríos, 2010. Effects of triterpenes on the immune system, Journal of Ethnopharmacology 128:1–14.
- Kanaya AM, Glidden DV, Chamber HF, 2001. Identifying Pulmonary tuberculosis in patient with negative sputum smear result. Chest 120:349-355.
- Kaiser G, 2002. The Process of Phagocytosis, In The innate Immune system. Doc Kaiser's Microbiology home page.
- Keane J, Balcewicz-Sablinska MK, Remold HG, Chupp GL, Meek BB, Fenton MJ and Kornfeld H, 1997. Infection by *Mycobacterium tuberculosis* promotes human alveolar macrophage apoptosis. Infect. Immun 65: 298–304.
- Khajuria A , Gupta A, Garai S, Wakhloo BP, 2007. Immunomodulatory effects of two saponins 1 and 2 isolated from *Luffa cylindrica* in Balb/C mice. Bioorganic and Medicinal Chemistry Letters 17, 1608–1612.
- Karin M and Neriah Y, 2000. Phosphorylation meets ubiquitination : the control on NF- κ B activity. Annual Review of immun 18: 621- 663.
- Karnen G, 2009. Imunologi Dasar. Fakultas Kedokteran Universitas Indonesia. Jakarta: 57-335.
- Katzung, Betram G, 2002. Farmakologi : Dasar dan Klinik. Edisi Pertama. Jakarta. Salemba Medika: 123-143.
- Kahnert A, Hopken UE, Stein M, 2007. *Mycobacterium tuberculosis* triggers formation of Lymphoid Structure in Murine Lung. Infect Dis. 195(1):46-54.
- Kaufmann SH, 2001. How Can Immunology Contribute to The Control of Tuberculosis?. Macmillan Magazines Ltd. www.nature.com/reviews/immunol.
- Kim BJ, Kim SY, Park BH, Lyu MA, Park IK, Bai GH, Kim SJ, Cha CY and Kook YH, 1997. Mutations in the *rpo B* gene of *Myobacterium tuberculosis* that interfere with PCR-Single Strand Conformation Polymorphism Analysis for rifampisin susceptibility testing. J. Clin. Microbiol. 35 (2) : 492-494.
- Kritszki A, 2007. Tuberculosis in adult. In Tuberculosis 2007. e-book: 487-500.

- Kitagawa I., Ohashi K, Baek NI, sakagami M, Yoshikawa M, dan Shibuya H, 1997. Indonesian Medicinal Plants XIX. Chemical Structures of Four Additional Resin-Glycosides, Mammosides A, B, H1, and H2, from the Tuber of *Merremia mammosa* (Convolvulaceae). *Chem. Pharm. Bull* 45(5): 786-794.
- Kusumawati D, 2004. Teknik eksperimentasi. In Bersahabat dengan hewan coba. Ed 1. Yogyakarta. Gadjah Mada University Press: 102-110.
- Koul A, Choidas Axel, K. Anil Tyagi, Drlica Karl, Singh, Yogendra and Axel Ullrich, 2001, Serine/threonine protein kinases PknF and PknG of *Mycobacterium tuberculosis*: characterization and localization. *Microbiol* 147: 2307-2314
- Korbel DS, Biancha S, Ulrich FS. 2008, Innate immunity in tuberculosis : myths and thruth. *Microbes and Infection* 22: I-10.
- Langley RJ, Mishra NC, Pena-Philippides JC, 2010. Granuloma formation induced by lowdose chronic silica inhalation is associated with an anti-apoptotic responsse in Lewis rats. *J Toxicol Environ Health* 73 (10): 669-83.
- Laurent P. Nicod, 2007. Immunology Of Tuberculosis. Pulmonary Clinic And Policlinic, Inselspital, Berne, Switzerland. *Swiss Med Wkly* 137: 357-362
- Lin Y, Zhang M, Hoffman FM, 1995. Absence of prominent Th2 response in human tuberculosis. *Infect Immun*, 64(7): 1351-6.
- Lu L, Ying K, Wei S, Fang Y, Liu Y, 2004. Asiaticoside induction for cell-cycle progression, proliferation and collagen synthesis in human dermal fibroblast. *Int J Dermatol* 43(11): 801-7.
- Luna LG, 1968. Manual of Histological Staining Methods of the Armed Force Institute of Pathology. McGRAW-HILL, New York.
- Lwanga SK and Lemeshow S, 2001. Sample size determination in health studies: A practical manual. World healt organization (WHO), Genewa.
- Maher D, Chaulet P, Spinaci S and Harries A, 1997. Treatment of tuberculosis : Guidelines for National Programmes. Second ed., WHO.TB. 220 : 7-77.
- Male D, Prostoff J, Broth D, Ivan Roitt, 2006. Immunology 7ed, Mosby Inc., Canada.
- Marseyawan; Crystal RG, 2000. Gamma Interferon Is Spontaneously Released By alveolar Macrophages And Lung T Lymphocytes in Patients With Pulmonary Sarcoidosis. *The Journal of Clinical Investigation*. 75: 1488-1495.

- Maquart FX, Bellon G, Gillery P, wegrowski Y, Borel YP, 1990. Stimulation of Collagensynthesis in Fibroblast Cuby Triterpenes from *Cetella asiatica* stimulate Extracellular Matrix Accumulation in Rat Experimental Wounds, *Euro J of dermatology* 19(4): 289-96.
- Mendez AP, Ravigliona MC, Laszlo A, Binkin N, Rieder HL, Bustereo F, Cohn DL, Weezenbeek CSBL, KimSJ, Chaulet P, Nun P, 1998. Global survailence for antituberculosis-drug resistance. *NEJM* 338:987-96.
- Mooto A, Stylanou F, Arias MA, Rcljic R, 2009. TNF alpha ill tuberculosis : a cytokine with a split personality. *Inflm Allergy Drub Targets* 8(1): 53-62.
- Murphy K, 2011. Chapter 2: Innate Immunity: The first line of defense- flashcard review. *Janeway's Immunobiology* 8th ed. Publication Date: July 25. p.86-92.
- Mustarichie Resmi, Udin Zalinar, Levita Jutti, Musfiroh Ida, Zulfricar Ikal, 2011. Activity of Leaf Extracts of *Coix lachryma* Linn. and *Asparagus Cochinchinensis* Linn. as Breast Anticancer Drugs. *Medical and Health Science Journal* 9(5): 47-57.
- Novak M, Madej JA, Dziegeil P, 2007 Intensity of Cox 2 expression inCell of Soft Tissue Fibrosarcomas in Dog As Related to Grade of Tumor malignation. *Bull Vet inst Pulawy* 51, 275-279. 2007
- Ordway D, Tamayo MH, Orme I, 2005. Foamy macrophages within lung granulomas og mice infected with *Mycobacterium tuberculosis* express molecules characteristic of dendritic cells and antiapoptotic markers of the TNF receptor-associated factor family. *The J of Immun* 178: 3873-3881.
- Ottenhoff THM, Verreck FAW, Hoeve MA and van de Vosse, 2005. Control of human host immunity to *Mycobacteriu tuberculosis* 85, (1-2): 53-64.
- Pallomino JC, Leao SC, Rittaco V. 2007. Tuberculosis: From Basic Science to Patient Care. Available at www.TuberculosisTextbook.com .
- Pando RH, Panduro CA, Madrid-Marina V, Lariva-SahJ, Orozco EH, Arriaga AK, 1998. The response hepatic acute phase proteins during experimental pulmonary tuberculosis. *Exp MI Pathol* 65(1):25-36.
- Patel AM, and Abrahams EW, 1989. Pulmonary tuberculosis. In (Ratledge, Stanford John, Grange L. *The Biology of the Myobacteria*.
- Peter CSW, Herrmann M, Lauber K, 2010. Dangerous attraction: phagocyte recruitment and danger signals of apoptotic and necrotic cells. *Apoptosis* 15: 1007-28.

- Piessens WF, Naedell EA, 2000. Pathogenesis of tuberculosis. New York: Marcell Decker Inc: 241-255.
- Prameswaran N and Patial S, 2010. Tumor Necrosis Factor signaling in macrophages. Crit Rev. Eukaryot Gene Expr. 20 (2):-87-103.
- Raja A, 2004, Immunology of tuberculosis. Indian J Med Res 120: 213-232.
- Rantam AF, 2003. Pewarnaan Imunohistokimia dari limfosit. Metode imunologi. Surabaya. Airlangga University Press: 129-144.
- Roitt IM, 2001, Essential Immunology , 10th ed. Blackwell science, Massachusetts: 374-94.
- Rodney RD, Joseph HH, Richard EA, Yen Js, 1995. Production of Reactive Nitrogen Intermedia Tes By Macrophage in: Burleson GR, Dean JH, MunsonAE, editors. Methods in Immunotoxicology 2nd. New York: Wiley Liss Inc 8: 99-104
- Rodrigues MF, Barsante MM, Alves CCS, Souza MA, Ferreira AP. Amarante-Mendes GP, Teixeira HC, 2009. Apoptosis of inacrophages during pulmonary *Mycobacterium tuberculosis* infection correlation with intracellulair bacillary load and cytukine level. Immunol 128: 691-96.
- Ross EM, Gilaman AG, 1985. Phannacodynamic. In The pharmacological Basis of Therapeutics. Ed 7th. Editor Goodman and Gilman. London. MacMilland Publishing company: 35-48.
- Rudel T, Kepp O, Kozjak-Pavlovic V, 2001. Interaction between bacterial pathogens and mitochondrial cell death pathways. Nat Rev 8: 693-705.
- Sahiratmadja E, Alisjahbana B, de Boer T, Ottenhoff THM, 2007, Dynamic changes in pro- and anti-inflammatory cytokine profiles and gamma interferon receptor signaling integrity correlate with tuberculosis disease activity and response to curative treatment. Infect Immun 75:820-829.
- Salgame Padmini, 2011. MMPs in tuberculosis: Granuloma creators and tissue destroyers. J Clin Invest 12(5):1686-1688.
- Samali A, Fulda S, Adrienne MG, Osamu H, Srinivasula SM, 2010. Cell stress and cell death. Int J Cell Biol:11-2.
- Sastrapradja S, Soetjipto NW. Danimihardja S, Soejono R, 1977. Ubi-ubian. Lembaga Biologi Nasional, Bogor: Balai Pustaka: 18-19.

- Saunders BM, Frank AA, Orme IM, Cooper AM. 1995. Interleukin Induces Early Gamma Interferon Production in the Infected Lung but Is Not Required for Generation of Specific Immunity to Mycobacterium Tuberculosis Infection. *Infectic And Immunity* 68(6): 3322-3326.
- Schluger NW, Roo WN, 1998. The Host Immun Response to tuberculosis, *Am J Respir Crit Care Med* 157: 679-691.
- Schmid H, Boucherot A, Yasuda Y, Henger A, Brunner B, 2006. Modular Activation of Nuclear Factor- κ B Transcriptional Programs in Human Diabetic Nephropathy. *Diabetes* 55: 2993-3003.
- Sen KJ, Su YY, Kyung HC. 2001. A MSH Decrease Apoptosis in Ischemic acute Renal Failure in Rat possible Mechanism of This Beneficial effect- Nephral Dial Transplan 16: 1583-1591.
- Shin HD, Park BL, Kim LH, H. Cheong S, Lee IH, and Park SK, 2005. Common interleukin 10 polymorphism associated with decreased risk of tuberculosis. *Exp and Mol Med* vol. 37(2): 128–132.
- Siagian H, 2011. Peran Vitamin D terhadap kadar IFN- γ , IL-12 dan ekspresi NF- κ B pada mencit yang terinfeksi *Mycobacterium tuberculosis*. Disertasi. Program Pascasarjana, Universitas Airlangga, Surabaya.p.54-95.
- Singhal A, Aliouat FM, Herve M. Mathvs V, Kiass M, Creusy C, Delaire B, Tsenova L, Bertout J, Carnacho L, Foo D, Tay HC', Siew JY, Boukhouchi W. Romano M, Mathema B. Darbois B, Kaplan G, BiCfani P, 2011. Experimental tuberculosis in the wistar rat: a model for protective immunity and control of infection. *Plos One* 6 (4): 8632
- Song CH, 2000. Depressed Interleukin-12 (IL-12), but not IL-18, Production in Responsse to a 30- or 32-kilodalton *Mycobacterial* Antigen in Patients with Active Pulmonary Tuberculosis. *IAI journal* 68 (8) : 4477-84.
- Stead WW, and Duff AK, 1994. Epidemiology and host factors. In (Schlossberg D). *Tuberculosis*. Springer Veriag, New York, Inc: 1-12.
- Subagyo A, Aditama TY, Sutoyo DK, Partakusuma LG, 2006. Pemeriksaan Interferon- γ dalam darah untuk deteksi infeksi tuberculosis. *JTI* 3(2): 6-19.
- Sudiana, IK, 2005. Teknologi Ilmu Jaringan dan Immunohistokimia. Agung Seto: 78-95.
- Sugawara 1, Udagawa T, Yamada 11, 2004. Rat neutrophils prevent the development of tuberculosis. *Infect Immun* 72(3): 1804-6.
- Tak PP, Gary SF, 2001. NF- κ B: a Key Role in Inflammatory Diseases. *The J of Clin Investigation*. 107 (1).

- Theodor Z. H, 2013. The Immune Response to *Mycobacterium tuberculosis* Infection in Humans. Tuberculosis-Current Issues in Diagnosis and Management: 20-29..
- Tizard IR, 2000. Immunology: An Introduction. 6th Ed. Saunders College Publishing. New York.
- Tjandrayoga A., 2000, Sepuluh masalah tuberkulosis dan penanggulangannya, J Resp Ido 20: 8–12 .
- Tjitrosoepomo, Gembong, 1991. Taksonomi Tumbuhan (Spermatophyta). Yogyakarta: Gadj Mada University Press: 354-356
- Todar K, 2005, Todar's Online Textbook of Bacteriology, University of Wisconsin-Madison Departement of Bacteriology .
- Tomioka H, 2004, Adjunctive Immunotherapy of Mycobacterial Infection, Current Pharmaceutical Design 10: 3297-3312.
- Tufariello JM, Chan J, Flynn JL, 2003. Latent tuberculosis: mechanism of host and bacillus that contribute to persistent infection, Lancet Infect Dis 3: 578-590.
- Ulrichs T, Kaufmann SHE, 2004, Cell Mediated Immune Response, In: Tuberculosis 2nd ed. LippincottWilliams & Wilkins, Philadelphia.
- Ukhrowi Uyun, 2011. Pengaruh Pemberian Ekstrak Etanol Umbi Bidara Upas (*Merremia mammosa* Hall.) Terhadap Fagositosis Makrofag dan Produksi Nitrit Oksida (NO) Makrofag . Studi eksperimental Infeksi Salmonella typhimurium pada Mencit Balb/C. Tesis Magister Ilmu Biomedik Pascasarjana Universitas Diponegoro.
- Vergene I, Chua J, Sings SB, Deretic V, 2004. Cell Biology of Mycobacterium tuberculosis Phagosome, Annu Rev Cell Dev. Biol 20: 367-97.
- Wang WD, Chen ZT, Li DZ, 2005. Corelation between DNA repair capacity in lymphocytes and acute side effects to skin during radiotherapy in nasopharyngeal cancer patients. *Clin. Cancer Res.* ,11(14): 5140-5144.
- Wang C H, H. C. Lin, C. Y. Liu, 2001. Upregulation of inducible nitric oxide synthase and cytokine secretion in peripheral blood monocytes from pulmonary tuberculosis patients," *Int J of Tuberculosis and Lung Dis* 5(3): 283–291.

- WHO, 2010. Tuberculosis Global Facts, Available at [www.Tuberculosis global facts](http://www.Tuberculosis_global_facts)
- WHO, 2012. Global Report Tuberculosis, Available at [www.Tuberculosis global report](http://www.Tuberculosis_global_report)
- WHO, 2011. Global Tuberculosis control Epidemiologi Strategy Financing.
- Yamada Hiroyuki, Satoru Mizuno, Mohammad Reza-Gholizadeh, And Isamu Sugawara, 2001. Relative Importance of NF-kB p50 in Mycobacterial Infection, *Inf And Immunity* : 7100–7105
- Yone VNC, Maria CAB, Juliana KAL, Candido Ferraz, and Valeria RAP, 2012. Role of TNF-Alpha, IFN-Gamma, and IL-10 in the Development of Pulmonary Tuberculosis, *Pulmonary Medicine*, review, Hindawi Publishing Corporation.
- Zhang M, Lin Y, Lyer DV, 1995. T-cell cytokine responses in human infection with Mycobacterium tuberculosis infection. *Immunology* 63(8): 3231–3234.
- Zwilling,BS, Kuhn DE, Wikoff L, Brown D, and Lafuse W, 1999. Role of iron in *Nramp1*-mediated inhibition of mycobacterial growth. *Infect. Immun* 67: 1386–1392.