

BAB VI DAFTAR PUSTAKA

- Aliyu, M., Zohora, F., & Akbar Saboor-Yaraghi, A. (2021). Spleen in innate and adaptive immunity regulation. *AIMS Allergy and Immunology*, 5(1), 1–17. <https://doi.org/10.3934/Allergy.2021001>
- Anwar, M. A., & Choi, S. (2014). G-negative marine bacteria: Structural features of lipopolysaccharides and their relevance for economically important diseases. In *Marine Drugs* (Vol. 12, Issue 5). <https://doi.org/10.3390/md12052485>
- Azzouz, D., Khan, M. A., & Palaniyar, N. (2021). ROS induces NETosis by oxidizing DNA and initiating DNA repair. *Cell Death Discovery*, 7(1). <https://doi.org/10.1038/s41420-021-00491-3>
- Babior, B. M. (1994). Activation of the respiratory burst oxidase. *Environmental Health Perspectives*, 102(SUPPL. 10). <https://doi.org/10.1289/ehp.94102s1053>
- Baratelli, F., Lin, Y., Zhu, L., Yang, S.-C., Heuzé-Vourc'h, N., Zeng, G., Reckamp, K., Dohadwala, M., Sharma, S., & Dubinett, S. M. (2005). Prostaglandin E2 Induces FOXP3 Gene Expression and T Regulatory Cell Function in Human CD4+ T Cells. *The Journal of Immunology*, 175(3), 1483–1490. <https://doi.org/10.4049/jimmunol.175.3.1483>
- Bartesaghi, S., & Radi, R. (2018). Fundamentals on the biochemistry of peroxynitrite and protein tyrosine nitration. In *Redox Biology* (Vol. 14). <https://doi.org/10.1016/j.redox.2017.09.009>
- Bayat, B., Tjahjono, Y., Berghöfer, H., Werth, S., Deckmyn, H., De Meyer, S. F., Sachs, U. J., & Santoso, S. (2015). Choline transporter-like protein-2: New von willebrand factor-binding partner involved in antibody-mediated neutrophil activation and transfusion-related acute lung injury. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 35(7). <https://doi.org/10.1161/ATVBAHA.115.305259>
- Bayat, B., Tjahjono, Y., Sydykov, A., Werth, S., Hippenstiel, S., Weissmann, N., Sachs, U. J., & Santoso, S. (2013). Anti-human neutrophil antigen-3a induced transfusion-related acute lung injury in mice by direct disturbance of lung endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 33(11). <https://doi.org/10.1161/ATVBAHA.113.301206>
- Beckman, J. S. (1996). Oxidative damage and tyrosine nitration from peroxynitrite. *Chemical Research in Toxicology*, 9(5). <https://doi.org/10.1021/tx9501445>
- Belikov, A. V., Schraven, B., & Simeoni, L. (2015). T cells and reactive oxygen species. *Journal of Biomedical Science*, 22(1), 85. <https://doi.org/10.1186/s12929-015-0194-3>

- Beres, A. J., Haribhai, D., Chadwick, A. C., Gonyo, P. J., Williams, C. B., & Drobyski, W. R. (2012). CD8⁺ Foxp3⁺ Regulatory T Cells Are Induced during Graft-versus-Host Disease and Mitigate Disease Severity. *The Journal of Immunology*, 189(1), 464–474. <https://doi.org/10.4049/jimmunol.1200886>
- Bergmark, B. A., Zelniker, T. A., Kim, M., Mehra, M. R., Stewart, G. C., Page, D. S., Woodcome, E. L., & Givertz, M. M. (2021). Early aspirin use, allograft rejection, and cardiac allograft vasculopathy in heart transplantation. *Clinical Transplantation*, 35(10). <https://doi.org/10.1111/ctr.14424>
- Bettelli, E., Dastrange, M., & Oukka, M. (2005). Foxp3 interacts with nuclear factor of activated T cells and NF- κ B to repress cytokine gene expression and effector functions of T helper cells. *Proceedings of the National Academy of Sciences*, 102(14), 5138–5143. <https://doi.org/10.1073/pnas.0501675102>
- Bhattacharyya, S., Borthakur, A., Dudeja, P. K., & Tobacman, J. K. (2010). Lipopolysaccharide-induced activation of NF- κ B non-canonical pathway requires BCL10 serine 138 and NIK phosphorylations. *Experimental Cell Research*, 316(19). <https://doi.org/10.1016/j.yexcr.2010.05.004>
- Brivio, F., Fumagalli, L., Parolini, D., Messina, G., Rovelli, F., Rescaldani, R., Vigore, L., Vezzo, R., Vaghi, M., Di Bella, S., & Lissoni, P. (2008). T-helper/T-regulator lymphocyte ratio as a new immunobiological index to quantify the anticancer immune status in cancer patients. *In Vivo*, 22(5).
- Bryn, T., Yaqub, S., Mahic, M., Henjum, K., Aandahl, E. M., & Tasken, K. (2008). LPS-activated monocytes suppress T-cell immune responses and induce FOXP3⁺ T cells through a COX-2-PGE-2-dependent mechanism. *International Immunology*, 20(2), 235–245. <https://doi.org/10.1093/intimm/dxm134>
- Caroline, Foe, K., Yesery Esar, S., Soewandi, A., Wihadmadyatami, H., Widharna, R. M., Tamayanti, W. D., Kasih, E., & Tjahjono, Y. (2019a). Evaluation of analgesic and antiplatelet activity of 2-((3-(chloromethyl)benzoyl)oxy)benzoic acid. *Prostaglandins Other Lipid Mediat*, 145, 106364. <https://doi.org/10.1016/j.prostaglandins.2019.106364>
- Caroline, Foe, K., Yesery Esar, S., Soewandi, A., Wihadmadyatami, H., Widharna, R. M., Tamayanti, W. D., Kasih, E., & Tjahjono, Y. (2019b). Evaluation of analgesic and antiplatelet activity of 2-((3-(chloromethyl)benzoyl)oxy)benzoic acid. *Prostaglandins & Other Lipid Mediators*, 145, 106364. <https://doi.org/10.1016/j.prostaglandins.2019.106364>
- Chandrasekharan, N. V., Dai, H., Roos, K. L. T., Evanson, N. K., Tomsik, J., Elton, T. S., & Simmons, D. L. (2002). COX-3, a cyclooxygenase-1 variant inhibited by acetaminophen and other analgesic/antipyretic drugs: Cloning, structure, and expression. *Proceedings of the National Academy of Sciences of the United States of America*, 99(21). <https://doi.org/10.1073/pnas.162468699>

- Charan, J., & Kantharia, N. (2013). How to calculate sample size in animal studies? In *Journal of Pharmacology and Pharmacotherapeutics* (Vol. 4, Issue 4). <https://doi.org/10.4103/0976-500X.119726>
- Checa, J., & Aran, J. M. (2020). Reactive Oxygen Species: Drivers of Physiological and Pathological Processes. *Journal of Inflammation Research, Volume 13*, 1057–1073. <https://doi.org/10.2147/JIR.S275595>
- Ciesielska, A., Matyjek, M., & Kwiatkowska, K. (2021). TLR4 and CD14 trafficking and its influence on LPS-induced pro-inflammatory signaling. *Cellular and Molecular Life Sciences*, 78(4), 1233–1261. <https://doi.org/10.1007/s00018-020-03656-y>
- Cipollone, F., Patrignani, P., Greco, A., Panara, M. R., Padovano, R., Cuccurullo, F., Patrono, C., Rebuzzi, A. G., Liuzzo, G., Quaranta, G., & Maseri, A. (1997). Differential Suppression of Thromboxane Biosynthesis by Indobufen and Aspirin in Patients With Unstable Angina. *Circulation*, 96(4), 1109–1116. <https://doi.org/10.1161/01.CIR.96.4.1109>
- Cooney, M. T., Dudina, A. L., & Graham, I. M. (2009). Value and limitations of existing scores for the assessment of cardiovascular risk: a review for clinicians. *J Am Coll Cardiol*, 54(14), 1209–1227. <https://doi.org/10.1016/j.jacc.2009.07.020>
- Davies, N. M., Sharkey, K. A., Asfaha, S., Macnaughton, W. K., & Wallace, J. L. (1997). Aspirin causes rapid up-regulation of cyclo-oxygenase-2 expression in the stomach of rats. *Aliment Pharmacol Ther*, 11(6), 1101–1108. <https://doi.org/10.1046/j.1365-2036.1997.00247.x>
- Dömer, D., Walther, T., Möller, S., Behnen, M., & Laskay, T. (2021). Neutrophil Extracellular Traps Activate Proinflammatory Functions of Human Neutrophils. *Frontiers in Immunology*, 12. <https://doi.org/10.3389/fimmu.2021.636954>
- Domper Arnal, M. J., Hijos-Mallada, G., & Lanas, A. (2021). Gastrointestinal and cardiovascular adverse events associated with NSAIDs. In *Expert Opinion on Drug Safety*. <https://doi.org/10.1080/14740338.2021.1965988>
- DuBois, R. N., Abramson, S. B., Crofford, L., Gupta, R. A., Simon, L. S., Putte, L. B. A., & Lipsky, P. E. (1998). Cyclooxygenase in biology and disease. *The FASEB Journal*, 12(12). <https://doi.org/10.1096/fasebj.12.12.1063>
- Duggleby, R., Danby, R. D., Madrigal, J. A., & Saudemont, A. (2018). Clinical Grade Regulatory CD4⁺ T Cells (Tregs): Moving Toward Cellular-Based Immunomodulatory Therapies. *Frontiers in Immunology*, 9(FEB). <https://doi.org/10.3389/fimmu.2018.00252>
- Forman, J. P., Rimm, E. B., & Curhan, G. C. (2007). Frequency of analgesic use and risk of hypertension among men. *Archives of Internal Medicine*, 167(4). <https://doi.org/10.1001/archinte.167.4.394>

- Funk, C. D., Funk, L. B., Kennedy, M. E., Pong, A. S., & Fitzgerald, G. A. (1991). Human platelet/erythroleukemia cell prostaglandin G/H synthase: cDNA cloning, expression, and gene chromosomal assignment. *The FASEB Journal*, 5(9). <https://doi.org/10.1096/fasebj.5.9.1907252>
- Gamble, C., McIntosh, K., Scott, R., Ho, K. H., Plevin, R., & Paul, A. (2012). Inhibitory kappa B kinases as targets for pharmacological regulation. *British Journal of Pharmacology*, 165(4), 802–819. <https://doi.org/10.1111/j.1476-5381.2011.01608.x>
- Geller, D. A., Nussler, A. K., Di Silvio, M., Lowenstein, C. J., Shapiro, R. A., Wang, S. C., Simmons, R. L., & Billiar, T. R. (1993). Cytokines, endotoxin, and glucocorticoids regulate the expression of inducible nitric oxide synthase in hepatocytes. *Proceedings of the National Academy of Sciences of the United States of America*, 90(2). <https://doi.org/10.1073/pnas.90.2.522>
- Georgiev, P., Charbonnier, L. M., & Chatila, T. A. (2019). Regulatory T Cells: the Many Faces of Foxp3. In *Journal of Clinical Immunology* (Vol. 39, Issue 7). <https://doi.org/10.1007/s10875-019-00684-7>
- Gerondakis, S., & Siebenlist, U. (2010). Roles of the NF- B Pathway in Lymphocyte Development and Function. *Cold Spring Harbor Perspectives in Biology*, 2(5), a000182–a000182. <https://doi.org/10.1101/cshperspect.a000182>
- Gregorczyk, I., & Maślanka, T. (2019). Effect of selected non-steroidal anti-inflammatory drugs on activation-induced CD25 expression on murine CD4+ and CD8+ T cells: an in vitro study. *Central European Journal of Immunology*, 44(2), 109–118. <https://doi.org/10.5114/ceji.2019.87058>
- Guo, Q., Jin, Y., Chen, X., Ye, X., Shen, X., Lin, M., Zeng, C., Zhou, T., & Zhang, J. (2024). NF-κB in biology and targeted therapy: new insights and translational implications. *Signal Transduction and Targeted Therapy*, 9(1), 53. <https://doi.org/10.1038/s41392-024-01757-9>
- Hadinugroho, W., Foe, K., Tjahjono, Y., Caroline, C., Esar, S. Y., Wijaya, H., & Jessica, M. A. (2022). Tablet formulation of 2-((3-(chloromethyl)benzoyl)oxy)benzoic acid by linear and quadratic models. *ACS Omega*, in press.
- Hamesch, k., Borkham-Kamphorst, E., Strnad, P., & Weiskirchen, R. (2015). Lipopolysaccharide-induced inflammatory liver injury in mice. *Laboratory Animals*, 49. <https://doi.org/10.1177/0023677215570087>
- Hampton, M. B., Kettle, A. J., & Winterbourn, C. C. (1998). Inside the neutrophil phagosome: Oxidants, myeloperoxidase, and bacterial killing. In *Blood* (Vol. 92, Issue 9). https://doi.org/10.1182/blood.v92.9.3007.421k47_3007_3017
- Handy, D. E., & Loscalzo, J. (2012). Redox regulation of mitochondrial function. In *Antioxidants and Redox Signaling* (Vol. 16, Issue 11).

<https://doi.org/10.1089/ars.2011.4123>

- Huang, J., Canadien, V., Lam, G. Y., Steinberg, B. E., Dinan, M. C., Magalhaes, M. A. O., Glogauer, M., Grinstein, S., & Brumell, J. H. (2009). Activation of antibacterial autophagy by NADPH oxidases. *Proceedings of the National Academy of Sciences*, 106(15), 6226–6231. <https://doi.org/10.1073/pnas.0811045106>
- Hung, Y. L., & Suzuki, K. (2017). The pattern recognition receptors and lipopolysaccharides (LPS)-induced systemic inflammation. *International Journal of Research Studies in Medical and Health Sciences*, 2(7).
- Hussain, M., Javeed, A., Ashraf, M., Riaz, A., Ali, I., & Ghafoor, A. (2012). Can airway tolerance be promoted immunopharmacologically with Aspirin in aspirin-insensitive allergic bronchial asthmatics by T regulatory cells (Tregs)-directed immunoregulatory therapy? *Journal of Medical Hypotheses and Ideas*, 6(2). <https://doi.org/10.1016/j.jmhi.2012.08.004>
- Iwakiri, Y., & Kim, M. Y. (2015). Nitric oxide in liver diseases. In *Trends in Pharmacological Sciences* (Vol. 36, Issue 8). <https://doi.org/10.1016/j.tips.2015.05.001>
- Javeed, A., Zhang, B., Qu, Y., Zhang, A., Sun, C., Zhang, L., Liu, J., Zeng, C., & Zhao, Y. (2009). The significantly enhanced frequency of functional CD4⁺CD25⁺Foxp3⁺ T regulatory cells in therapeutic dose aspirin-treated mice. *Transplant Immunology*, 20(4), 253–260. <https://doi.org/10.1016/j.trim.2008.12.001>
- Jiang, X., Renkema, H., Pennings, B., Pecheritsyna, S., Schoeman, J. C., Hankemeier, T., Smeitink, J., & Beyrath, J. (2021). Mechanism of action and potential applications of selective inhibition of microsomal prostaglandin E synthase-1-mediated PGE-2 biosynthesis by sonlicromanol's metabolite KH176m. *Scientific Reports*, 11(1), 880. <https://doi.org/10.1038/s41598-020-79466-w>
- Josefowicz, S. Z., Lu, L.-F., & Rudensky, A. Y. (2012). Regulatory T Cells: Mechanisms of Differentiation and Function. *Annual Review of Immunology*, 30(1), 531–564. <https://doi.org/10.1146/annurev.immunol.25.022106.141623>
- Kartika, R., & Wibowo, H. (2020). Impaired Function of Regulatory T Cells in Type 2 Diabetes Mellitus. *Molecular and Cellular Biomedical Sciences*, 4(1), 1. <https://doi.org/10.21705/mcbs.v4i1.64>
- Kassim, M., Mansor, M., Al-Abd, N., & Yusoff, K. M. (2012). Gelam honey has a protective effect against lipopolysaccharide (LPS)-induced organ failure. *International Journal of Molecular Sciences*, 13(5). <https://doi.org/10.3390/ijms13056370>
- Kim, C. S., Nguyen, H. D., Ignacio, R. M., Kim, J. H., Cho, H. C., Maeng, E. H., Kim, Y. R., Kim, M. K., Park, B. K., & Kim, S. K. (2014). Immunotoxicity of

zinc oxide nanoparticles with different size and electrostatic charge.
International Journal of Nanomedicine, 9.
<https://doi.org/10.2147/IJN.S57935>

Kleinert, H., & Forstermann, U. (2007). Nitric oxide synthase(s). In *xPharm: The Comprehensive Pharmacology Reference*. <https://doi.org/10.1016/B978-008055232-3.60507-0>

Kulesza, A., Paczek, L., & Burdzinska, A. (2023). The Role of COX-2 and PGE-2 in the Regulation of Immunomodulation and Other Functions of Mesenchymal Stromal Cells. *Biomedicines*, 11(2), 445.
<https://doi.org/10.3390/biomedicines11020445>

Kurotaki, D., Uede, T., & Tamura, T. (2015). Functions and development of red pulp macrophages. *Microbiology and Immunology*, 59(2), 55–62.
<https://doi.org/10.1111/1348-0421.12228>

Lerret, N. M., Houlihan, J. L., Kheradmand, T., Pothoven, K. L., Zhang, Z. J., & Luo, X. (2012). Donor-Specific CD8+Foxp3+ T Cells Protect Skin Allografts and Facilitate Induction of Conventional CD4+Foxp3+ Regulatory T Cells. *American Journal of Transplantation*, 12(9), 2335–2347.
<https://doi.org/10.1111/j.1600-6143.2012.04120.x>

Lewis, S. M., Williams, A., & Eisenbarth, S. C. (2019). Structure and function of the immune system in the spleen. *Science Immunology*, 4(33).
<https://doi.org/10.1126/sciimmunol.aau6085>

Lewkowicz, P., Lewkowicz, N., Sasiak, A., & Tchórzewski, H. (2006). Lipopolysaccharide-Activated CD4+CD25+ T Regulatory Cells Inhibit Neutrophil Function and Promote Their Apoptosis and Death. *The Journal of Immunology*, 177(10), 7155–7163.
<https://doi.org/10.4049/jimmunol.177.10.7155>

Lichtenberger, L. M., Phan, T., Fang, D., Edler, S., Philip, J., Li-Geng, T., & Dial, E. J. (2016). Bioavailability of aspirin in rats comparing the drug's uptake into gastrointestinal tissue and vascular and lymphatic systems: Implications on aspirin's chemopreventive action. *Journal of Physiology and Pharmacology*, 67(5). [https://doi.org/10.1016/s0016-5085\(17\)33031-7](https://doi.org/10.1016/s0016-5085(17)33031-7)

Lippi, G., & Cervellin, G. (2018). Aspirin for thromboprophylaxis in major orthopedic surgery: Old drug, new tricks? *Acta Biomedica*, 89(1).
<https://doi.org/10.23750/abm.v89i1.7121>

Liu, Y., Fang, S., Li, X., Feng, J., Du, J., Guo, L., Su, Y., Zhou, J., Ding, G., Bai, Y., Wang, S., Wang, H., & Liu, Y. (2017). Aspirin inhibits LPS-induced macrophage activation via the NF-κB pathway. *Scientific Reports*, 7(1).
<https://doi.org/10.1038/s41598-017-10720-4>

Long, M., Park, S.-G., Strickland, I., Hayden, M. S., & Ghosh, S. (2009). Nuclear Factor-κB Modulates Regulatory T Cell Development by Directly Regulating

- Expression of Foxp3 Transcription Factor. *Immunity*, 31(6), 921–931.
<https://doi.org/10.1016/j.immuni.2009.09.022>
- Lv, J., He, X., Wang, H., Wang, Z., Kelly, G. T., Wang, X., Chen, Y., Wang, T., & Qian, Z. (2017). TLR4-NOX2 axis regulates the phagocytosis and killing of Mycobacterium tuberculosis by macrophages. *BMC Pulmonary Medicine*, 17(1), 194. <https://doi.org/10.1186/s12890-017-0517-0>
- Meyer-Kirchrath, J., & Schror, K. (2012). Cyclooxygenase-2 Inhibition and Side-effects of Non-steroidal Antiinflammatory Drugs in the Gastrointestinal Tract. *Current Medicinal Chemistry*, 7(11).
<https://doi.org/10.2174/0929867003374219>
- Mishra, S., Srinivasan, S., Ma, C., & Zhang, N. (2021). CD8+ Regulatory T Cell – A Mystery to Be Revealed. *Frontiers in Immunology*, 12.
<https://doi.org/10.3389/fimmu.2021.708874>
- Mittal, M., Siddiqui, M. R., Tran, K., Reddy, S. P., & Malik, A. B. (2014). Reactive oxygen species in inflammation and tissue injury. In *Antioxidants and Redox Signaling* (Vol. 20, Issue 7). <https://doi.org/10.1089/ars.2012.5149>
- Mondal, S., Jana, M., Dasarathi, S., Roy, A., & Pahan, K. (2018). Aspirin ameliorates experimental autoimmune encephalomyelitis through interleukin-11-mediated protection of regulatory T cells. *Science Signaling*, 11(558).
<https://doi.org/10.1126/scisignal.aar8278>
- Morita, I., Schindler, M., Regier, M. K., Otto, J. C., Hori, T., Dewitt, D. L., & Smith, W. L. (1995). Different intracellular locations for prostaglandin endoperoxide H synthase-1 and-2. *Journal of Biological Chemistry*, 270(18).
<https://doi.org/10.1074/jbc.270.18.10902>
- Nair, A., & Jacob, S. (2016). A simple practice guide for dose conversion between animals and human. *Journal of Basic and Clinical Pharmacy*, 7(2).
<https://doi.org/10.4103/0976-0105.177703>
- Nocella, C., Carnevale, R., Bartimoccia, S., Novo, M., Cangemi, R., Pastori, D., Calvieri, C., Pignatelli, P., & Violi, F. (2017). Lipopolysaccharide as trigger of platelet aggregation via eicosanoid Over-Production. *Thrombosis and Haemostasis*, 117(8). <https://doi.org/10.1160/TH16-11-0857>
- Okeke, E. B., Okwor, I., Mou, Z., Jia, P., & Uzonna, J. E. (2013). CD4+CD25+ Regulatory T Cells Attenuate Lipopolysaccharide-Induced Systemic Inflammatory Responses and Promotes Survival in Murine Escherichia coli Infection. *Shock*, 40(1), 65–73.
<https://doi.org/10.1097/SHK.0b013e318296e65b>
- Ost, K. S., O'Meara, T. R., Stephens, W. Z., Chiaro, T., Zhou, H., Penman, J., Bell, R., Catanzaro, J. R., Song, D., Singh, S., Call, D. H., Hwang-Wong, E., Hanson, K. E., Valentine, J. F., Christensen, K. A., O'Connell, R. M., Cormack, B., Ibrahim, A. S., Palm, N. W., ... Round, J. L. (2021). Adaptive

- immunity induces mutualism between commensal eukaryotes. *Nature*, 596(7870), 114–118. <https://doi.org/10.1038/s41586-021-03722-w>
- Patrono, C. (2023). Fifty years with aspirin and platelets. *British Journal of Pharmacology*, 180(1), 25–43. <https://doi.org/10.1111/bph.15966>
- Pautz, A., Li, H., & Kleinert, H. (2021). Regulation of NOS expression in vascular diseases. In *Frontiers in Bioscience - Landmark* (Vol. 26, Issue 5). <https://doi.org/10.52586/4926>
- Perini, R., Fiorucci, S., & Wallace, J. L. (2004). Mechanisms of nonsteroidal anti-inflammatory drug-induced gastrointestinal injury and repair: A window of opportunity for cyclooxygenase-inhibiting nitric oxide donors. In *Canadian Journal of Gastroenterology* (Vol. 18, Issue 4). <https://doi.org/10.1155/2004/890585>
- Pick, E., & Keisari, Y. (1981). Superoxide anion and hydrogen peroxide production by chemically elicited peritoneal macrophages-Induction by multiple nonphagocytic stimuli. *Cellular Immunology*, 59(2). [https://doi.org/10.1016/0008-8749\(81\)90411-1](https://doi.org/10.1016/0008-8749(81)90411-1)
- Raetz, C. R. H., & Whitfield, C. (2002). Lipopolysaccharide endotoxins. In *Annual Review of Biochemistry* (Vol. 71). <https://doi.org/10.1146/annurev.biochem.71.110601.135414>
- Redza-Dutordoir, M., & Averill-Bates, D. A. (2016). Activation of apoptosis signalling pathways by reactive oxygen species. In *Biochimica et Biophysica Acta - Molecular Cell Research* (Vol. 1863, Issue 12). <https://doi.org/10.1016/j.bbamcr.2016.09.012>
- Ricciotti, E., & Fitzgerald, G. A. (2011). Prostaglandins and inflammation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 31(5). <https://doi.org/10.1161/ATVBAHA.110.207449>
- Rouzer, C. A., & Marnett, L. J. (2009). Cyclooxygenases: Structural and functional insights. In *Journal of Lipid Research* (Vol. 50, Issue SUPPL.). <https://doi.org/10.1194/jlr.R800042-JLR200>
- Shiotani, A., Sakakibara, T., Nomura, M., Yamanaka, Y., Nishi, R., Imamura, H., Tarumi, K. I., Kamada, T., Hata, J., & Haruma, K. (2010). Aspirin-induced peptic ulcer and genetic polymorphisms. *Journal of Gastroenterology and Hepatology (Australia)*, 25(SUPPL. 1). <https://doi.org/10.1111/j.1440-1746.2009.06212.x>
- Sun, J., Yang, Y., Huo, X., Zhu, B., Li, Z., Jiang, X., Xie, R., Gao, L., Sun, Y., Fan, H., Zhu, Y., & Yang, J. (2019). Efficient Therapeutic Function and Mechanisms of Human Polyclonal CD8 + CD103 + Foxp3 + Regulatory T Cells on Collagen-Induced Arthritis in Mice. *Journal of Immunology Research*, 2019, 1–12. <https://doi.org/10.1155/2019/8575407>
- Tamayanti, W. D., Widharna, R. M., Caroline, C., & Soekarjo, B. (2016). Uji

- Aktivitas Analgesik Asam 2-((3-(Klorometil)Benzoiloksi)Benzoat dan Asam 2-((4-(Klorometil)Benzoiloksi)Benzoat Pada Tikus Wistar Jantan dengan Metode Plantar Test. *Journal of Pharmaceutical Sciences and Community*, 13(01). <https://doi.org/10.24071/jpsc.2016.130103>
- Tanaka, A., & Sakaguchi, S. (2019). Targeting Treg cells in cancer immunotherapy. *European Journal of Immunology*, 49(8), 1140–1146. <https://doi.org/10.1002/eji.201847659>
- Thannickal, V. J., Larios, J. M., & Fanburg, B. L. (2001). H₂O₂ production by myofibroblasts is dependent on Src kinase(s) and actin cytoskeletal regulation. *Chest*, 120. https://doi.org/10.1378/chest.120.1_suppl.S32
- Tjahjono, Y., Karnati, S., Foe, K., Anggara, E., Gunawan, Y. N. N., Wijaya, H., Steven, Suyono, H., Esar, S. Y. Y., Hadinugroho, W., Wihadmadyatami, H., Ergün, S., Widharna, R. M. M., Caroline, Ergun, S., Widharna, R. M. M., & Caroline. (2021). *Anti-inflammatory activity of 2-((3-(chloromethyl)benzoyl)oxy)benzoic acid in LPS-induced rat model*. 154, 106549. <https://doi.org/10.1016/j.prostaglandins.2021.106549>
- Tjahjono, Yudy, Caroline, C., Nugraha, J., Foe, K., Karnati, S., Ergün, S., Jafet, N., Chrisantia, O., Kusuma, I. M. A. B., Wijaya, H., Hadinugroho, W., Nugrahaningsih, D. A. A., Kusindarta, D. L., Wilianto, Y. R., Esar, S. Y., & Wihadmadyatami, H. (2023). 2-((3-(chloromethyl)benzoyloxy)benzoic Acid Increases CD4⁺ Regulatory T-Cell Population and FoxP3 Expression in Lipopolysaccharide-induced Mice. *The Indonesian Biomedical Journal*, 15(4). <https://doi.org/10.18585/inabj.v15i4.2429>
- Tjahjono, Yudy, Caroline, Foe, K., Karnati, S., Ergün, S., Esar, S. Y., Wijaya, H., Hadinugroho, W., Kusindarta, D. L., & Wihadmadyatami, H. (2023). Synthesis, Characterization, and Application of 2-((3-(Chloromethyl)benzoyl)oxy)benzoic Acid: A Review. *ACS Omega*, 8(1), 42–47. <https://doi.org/10.1021/acsomega.2c05566>
- Valkhoff, V E, Sturkenboom, M. C., & Kuipers, E. J. (2012). Risk factors for gastrointestinal bleeding associated with low-dose aspirin. *Best Pract Res Clin Gastroenterol*, 26(2), 125–140. <https://doi.org/10.1016/j.bpg.2012.01.011>
- Valkhoff, Vera E., Sturkenboom, M. C. J. M., & Kuipers, E. J. (2012). Risk factors for gastrointestinal bleeding associated with low-dose aspirin. *Best Practice and Research: Clinical Gastroenterology*, 26(2), 125–140. <https://doi.org/10.1016/j.bpg.2012.01.011>
- Vane, J. R., & Botting, R. M. (1998). Anti-inflammatory drugs and their mechanism of action. *Inflamm Res*, 47 Suppl 2, S78-87. <https://doi.org/10.1007/s000110050284>
- Vane, J. R., & Botting, R. M. (2003). The mechanism of action of aspirin. *Thrombosis Research*, 110(5–6). [https://doi.org/10.1016/S0049-3848\(03\)00379-7](https://doi.org/10.1016/S0049-3848(03)00379-7)

- Wallace, J. L., Ignarro, L. J., & Fiorucci, S. (2002). Potential cardioprotective actions of no-releasing aspirin. *Nat Rev Drug Discov*, 1(5), 375–382. <https://doi.org/10.1038/nrd794>
- Wang, Y. H., Wu, Y. T., Fu, C. Y., Liao, C. H., Cheng, C. T., & Hsieh, C. H. (2022). Potential use of peptic ulcer perforation (PULP) score as a conversion index of laparoscopic-perforated peptic ulcer (PPU) repair. *European Journal of Trauma and Emergency Surgery*, 48(1). <https://doi.org/10.1007/s00068-020-01552-5>
- Warner, T. D., Nylander, S., & Whatling, C. (2011). Anti-platelet therapy: Cyclo-oxygenase inhibition and the use of aspirin with particular regard to dual anti-platelet therapy. In *British Journal of Clinical Pharmacology* (Vol. 72, Issue 4). <https://doi.org/10.1111/j.1365-2125.2011.03943.x>
- Yan, J., Luo, M., Chen, Z., & He, B. (2020). The Function and Role of the Th17/Treg Cell Balance in Inflammatory Bowel Disease. *Journal of Immunology Research*, 2020, 1–8. <https://doi.org/10.1155/2020/8813558>
- Yao, X., Ahmadzadeh, M., Lu, Y.-C., Liewehr, D. J., Dudley, M. E., Liu, F., Schrupp, D. S., Steinberg, S. M., Rosenberg, S. A., & Robbins, P. F. (2012). Levels of peripheral CD4+FoxP3+ regulatory T cells are negatively associated with clinical response to adoptive immunotherapy of human cancer. *Blood*, 119(24), 5688–5696. <https://doi.org/10.1182/blood-2011-10-386482>
- Zeng, W., Zhang, Q., Feng, G., Liu, G., Wu, F., Shen, H., Shao, H., & Tao, C. (2022). The effect of inulin-type fructans on the intestinal immune function of antibiotic-treated mice. *Applied Microbiology and Biotechnology*, 106(8). <https://doi.org/10.1007/s00253-022-11896-0>