

DAFTAR PUSTAKA

- Abbas, A. ., Lichtman, A. . and Pillai, 2016, *Imunologi Dasar Abbas: Fungsi dan Kelainan Sistem Imun*. 5th edn. Edited by H. Kalim. Indonesia: Elsevier.
- Akin, R., Herawati, D., Murdiastuti, K., 2014. Demineralized Freeze-Dried Bovine Bone Perawatan Kerusakan Intraboni. *J Ked Gigi*, 5(3), 297–305.
- Attia, A., 2005, Why should researchers report to confidence interval in modern research? *Middle East Fertility Society Journal*, 10(1), 78–81.
- Aquino-Martinez, R., dan Hernández-Vigueras, S., 2021, Severe COVID-19 Lung Infection in Older People and Periodontitis. *Journal of Clinical Medicine* 10, no. 2: 279.
- Badran, Z., Gaudin, A., Struillou, X., Amador, G., and Soueidan, A., 2020, Periodontal Pockets: A Potential Reservoir for SARS-CoV-2?, *Medical Hypotheses*, 143: 109907.
- Bansal, J., Kedige, S. D. and Anand, S., 2010, Hyaluronic acid: A promising mediator for periodontal regeneration, *Indian Journal of Dental Research*, 21(4), pp. 575–578. doi: 10.4103/0970-9290.74232.
- Bertolini, M., Pita, A., Koo, S., Cardenas, A., and Meethil, A., 2020, Periodontal Disease in the COVID-19 Era: Potential Reservoir and Increased Risk for SARS–CoV-2, *Pesqui. Bras. Odontopediatria Clín. Integr.* 2020; 20(suppl):e0140.
- Bukhari, S. N. A., Roswandi, N. L., Waqas, M., Habib, H., Hussain, F., Khan, S., Sohail, M., Ramli, N. A., Thu, H. E., & Hussain, Z, 2018, Hyaluronic acid, a promising skin rejuvenating biomedicine: A review of recent updates and pre-clinical and clinical investigations on cosmetic and nutricosmetic effects. *International Journal of Biological Macromolecules*, 120, 1682–1695. <https://doi.org/10.1016/j.ijbiomac.2018.09.188>
- Brooks, G., Carroll, K. C., Butel, J., & Morse, S., 2012, Jawetz, Melnick & Adelberg's Medical Microbiology (26th ed.). New York: McGraw-Hill Medical.
- Cai, H., 2020, Sex Difference And Smoking Predisposition In Patients With COVID-19. *Lancet Respir Med*, (20)30117-X 42.
- Campisi, G., Bizzoca, M. E. and Muzio, L. Lo, 2021, COVID-19 and periodontitis : reflecting on a possible association, *Head & Face Medicine*. Head & Face Medicine, 17(16), pp. 1–6.
- Chen, L. Y. C., Hoiland R. L. , Stukas S., et al., 2020, Confronting the controversy: interleukin-6 and the COVID-19 cytokine storm syndrome. *Eur Respir J.*, 56.

- Conforti, C., Giuffrida, R., Dianzani, C., Di Meo, N., Zalaudek, I., 2020, COVID-19 and psoriasis: Is it time to limit treatment with immunosuppressants? A call for action. *Dermatol Ther*:e13298.
- Dahiya, P. and Kamal, R., 2013, Hyaluronic Acid : A Boon in Periodontal Therapy, *North American Journal of Medical Sciences*, 5(5), pp. 309–315.
- De Wit. E, Van Doremalen, N., Falzarano, D., Munster, V.J., 2016, SARS and MERS: Recent insights into emerging coronaviruses. *Nat Rev Microbiol*;14(8):523–34.
- Departemen Kesehatan Republik Indonesia, 2011, *Laporan Survey Kesehatan Rumah Tangga (SKRT)*. Jakarta. Badan Litbangkes.
- Dingsdag, S. , Nelson S., dan Coleman N.V., 2016, Bacterial communities associated with apical periodontitis and dental implant failure. *Microb Ecol Health Dis*. Nov 8; 27:31307.
- Du., X., Li., Y., Xia, Y.L., Ai, S.M., Liang, J., Sang, P., Ji,X., dkk., 2016, Insights into Protein–Ligand Interactions: Mechanisms, Models, and Methods.*Int J Mol Sci*. 2016 Feb; 17(2): 144.
- Ehlers, M., Grotzinger, J., Fisher, M., Bos, H.K., Brakenhoff J.P.J., John, S.R., 1996, Identification of Single Amino Acid Residues of Human IL-6 Involved in Receptor Binding and Signal Initiation. *Journal of Interferon & Cytokine Research*, 16(8), 569–576.
- Fang ,L., Karakiulakis, G., Roth, M., 2020, Are Patients With Hypertension And Diabetes Mellitus At Increased Risk For COVID-19 Infection? *Lancet Respir Med*, (20)30116-8
- Fujioka-kobayashi, M. *et al*, 2017, In vitro effects of hyaluronic acid on human periodontal ligament cells, *BMC Oral Health*. BMC Oral Health, 17(44), pp. 1–12.
- Gorbalenya, A.E., Baker, S.C., Baric, R.S., de Groot, R.J., Drosten, C., Gulyaeva, A.A., 2020, Severe acute respiratory syndrome-related coronavirus : The species and its viruses – a statement of the Coronavirus Study Group. *BioRxiv*.
- Gupta, R., 2012, Role of Professionally Applied 0,8 % Hyaluronic Acid in Managing Inflammation in periodontal Disease, *Ind Jour Periodontology*. 14 : 124-129.
- Han, Y., and Yang, H., 2020, The transmission and diagnosis of 2019 novel coronavirus infection disease (COVID-19): A Chinese perspective, *J Med Virol*, Jun;92(6):639-644.
- Hariono M., Nuwarda R.F., Yusuf M., Rollando R, Jenie R.I. , Al-najjar B., 2020, Arylamide as Potential Selective Inhibitors for Matrix Metalloproteinase 9

(MMP9): Design, Synthesis, Biological Evaluation and Molecular Modeling *J. Chem. Inf. Model*, 60, 1, 349–359

Hevener, K., Zhao, W., Ball, D., Babaoglu, K., Qi, J.J., White, S., dan Lee, R., 2009, Validation of molecular docking programs for virtual screening against dihydropteroate synthase. *J of Chemical Information and Modeling*. 46(2):444-460.

Irawan, Mohammad., Setiawan, Hartanto, 2017, Kajian Pendekatan Penempatan Ligan Pada Protein Menggunakan Algoritma Genetika, *JURNAL SAINS DAN SENI ITS* Vol. 6, No. 2 (2017) 2337-3520, DOI: [10.12962/j23373520.v6i2.25468](https://doi.org/10.12962/j23373520.v6i2.25468).

Jafer, M. A. *et al.*, 2020, COVID-19 and Periodontitis : A Reality to Live with, *The Journal of Contemporary Dental Practice*, 21(12), pp. 10–15.

Jain, A.N. dan Nicholls, A., 2008. Recommendations for evaluation of computational methods. *Journal of Computer-Aided Molecular Design*, **22**: 133–139.

Johnson, B. Z. *et al.*, 2020, The Role of IL-6 in Skin Fibrosis and Cutaneous Wound Healing, *biomedicines*, 8(101), pp. 1–18.

Kapoor, P., 2011, Topical hyaluronic Acid in the management of oral ulcers. *Indian J Dermatol*. 56(3):300-2.

Kawiyana, S, 2014, Interleukin-6 Yang Tinggi Sebagai Faktor Risiko Terhadap Kejadian Osteoporosis Pada Wanita Pascam Enopause Defisiensi Estrogen. *Journal of Internal Medicine*. Vol 10. No. 10.

Li, Z., Yi, Y., Luo, X., Xiong, N., Liu, Y., Li, S., Sun, R., Wang, Y., Hu., B., Chen, W., Zhang, Y., Wang, J., Huang, B., Lin, Y., Yang, J., Cai, W., Wang, X., Cheng, J., Chen, Z., Sun, K., Pan, W., Zhan, Z., Chen, L. Ye, F., 2020, Development and clinical application of a rapid IgM-IgG combined antibody test for SARS-CoV-2 infection diagnosis, *J Med Virol*, Sep;92(9):1518-1524.

Liu, B., Li, M., Zhou, Z., Guan, X., and Xiang, F., 2020, Can we use interleukin-6 (IL-6) blockade for coronavirus disease 2019 (COVID-19)-induced cytokine release syndrome (CRS)?, *J Autoimmun*, 111 :102452

Marcou, G., dan Rognan, D., 2007, Optimizing fragment and scaffold docking by use of Molecular Interaction Fingerprints. *Journal of Chemical Information and Modeling*, 47(1), 195-207.

Masfufatun, P.O.A., Tania, L., dan Hariyanto, A. B., 2018, Kadar IL-6 dan IL-10 Serum pada Tahapan Inflamasi di Rattus norvegicus yang terinfeksi Candida albicans, *Jurnal Kedokteran Brawijaya* 30 (1), 19-23.

Mesa FL, Aneiros J, Cabrera A, Bravo M, Caballero T, Revellas F., 2002, Antiproliferative effect of topic hyaluronic acid gel. Study in gingival

- biopsies of patients with periodontal disease. *Histol Histopathol.*, 17: 747-753
- Molayem, S., and Pontes, C., 2020, The Mouth-COVID Connection: Il-6 Levels in Periodontal Disease — Potential Role in COVID-19-Related Respiratory Complication, *J Calif Dent Assoc*, 7:1-44.
- Muttaqin, F. ., Ismail, H., & Muhammad, H. N., 2019, Studi Molecular Docking, Molecular Dynamic, Dan Prediksi Toksisitas Senyawa Turunan Alkaloid Naftiridin Sebagai Inhibitor Protein Kasein Kinase 2-A Pada Kanker Leukimia, *Pharmacoscript*, 2(2), 131–151, <https://doi.org/10.1142/7114>.
- Naseem, S., 2016, Role of interleukin-6 in immunity: A Review. *International Journal of Life Sciences Research*. 4 (2). 268-274.
- Newman, M. G., Takei, H. H., Klokkevold, P. R., Carranza, F. A., 2019, *Clinical Periodontology 13th Ed*, Philadelphia: Elsevier Saunders.
- Owen, J. A., Punt, J. and Stranford, S. A., 2013, *Kuby Immunology*. Seventh Ed. Edited by L. Schultz et al. New York: Susan Winslow.
- Perhimpunan Dokter Paru Indonesia, 2020, *Panduan Praktik Klinis: Pneumonia 2019-nCoV*, PDPI: Jakarta.
- Pirnazar, P., Wolinsky, L., Nachnani, S., Haake, S., Pilloni, A., & Bernard, G. W. (n.d.). *Pirnazar1999*. 70(4).
- Putri, M.H., 2009, *Ilmu Pencegahan Penyakit Jaringan Keras dan Jaringan Pendukung Gigi*. Jakarta: EGC. p. 56, 75.
- Riedel S., Morse, S.A., Mietzner, T., and Miller, S., 2019, *Medical Microbiology*. 28th ed. New York: McGrawHill Education/Medical.
- Sakaguchi, W. , Kubota, N., Shimizu, T., Saruta, J., Fuchida, S., Kawata, A., Yamamoto, Y., Sugimoto , M., Yakeishi, M. dan Tsukinoki, K., 2020, Existence of SARS-CoV-2 Entry Molecules in the Oral Cavity, *Int. J. Mol. Sci.*, 21, 6000.
- Setiawati, A., Riswanto, F.D.O., Yuliani, S.H., Istyastono, E.P., 2014, Retrospective Validation of A Structure-Based Virtual Screening Protocol To Identify Ligands For Estrogen Receptor Alpha and Its Application To Identify The Alpha-Mangostin Binding Pose, *Indo J. Chem*, 14(2), 103-108.
- Sixou, J.L., Magaud, C., Gougeon, A.J., Cormier, M., dan Mallet, M.B., 2003, Microbiology of mandibular third molar pericoronitis: incidence of beta-lactamase-producing bacteria. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod*. Jun; 95(6):655-9.
- Soriano, V., Barreiro, P., 2020, Impact of New Coronavirus Epidemics on HIV-Infected Patients. *AIDS Rev*;22(1):57-8.

- Stein, S.E., Mikaia, A., Linstrom, P., Mirokhin, Y., Tchekhovskoi, D., Mallard, W.G., dkk., n.d. For Use with Microsoft® Windows User's Guide 49.
- Takahashi, Y. *et al.*, 2021, Expression of the SARS-CoV-2 Receptor ACE2 and Proinflammatory Cytokines Induced by the Periodontopathic Bacterium *Fusobacterium nucleatum* in Human Respiratory Epithelial Cells, *Int J Mol Sci*, 22(3), pp. 1–13.
- Tanaka, T., Narazaki, M., & Kishimoto, T., 2014, IL-6 in inflammation, immunity, and disease. *Cold Spring Harbor perspectives in biology*, 6(10).
- Tania, P.O.A., Simamora, D., Parmasari, W.D., dan Rahmawati, F., 2014, Kadar Interleukin 6 (IL-6) sebagai Indikator Progresivitas Penyakit Reumatoid Arthritis (RA), *Jurnal Ilmiah Kedokteran*, Vol.1:III, Maret.
- Tawfig, N., 2016, Proinflammatory Cytokines and Periodontal Disease, *Journal of Dental Problems and Solutions*, 3(1)
- Tjay, T. H., dan Rahardja, K., 2002, Obat-Obat Penting, Khasiat, Penggunaan dan Efek Sampingnya, Edisi Kelima, 270-279, Efek Media Komputindo, Jakarta.
- Vera, R. N. dkk., 2013, Influence of Hyaluronic Acid in Periodontal Tissue Regeneration, *Balkan Journal Stomatology*, 17, pp. 61–64.
- Wang, C., Horby, P. W., Hayden, F. G., and Gao, G. F., 2020, A Novel Coronavirus Outbreak of Global Health Concern. *Lancet*, 395:470–473.
- WHO, 2020, WHO Director-General's Remarks at The Media briefing on 2019-nCov.
- Widyastuti, R., 2009, Periodontitis : Diagnosis dan Perawatannya. *Jurnal Ilmiah dan Teknologi Kedokteran Gigi FKG UPDM*. 6 : 32-33.
- Wijayanto, R., Herawati, D., & Sudibyo, 2014, Perbedaan efektivitas topikal gel asam hyaluronat dan gel metronidazol terhadap penyembuhan jaringan periodontal setelah kuretase pada Periodontitis Kronis. *Jurnal Kedokteran Gigi*, 5(2086–0218), 307–325.
- Wishart, D.S., Feunang, Y.D., Guo, A.C., Lo, E.J., Marcu, A., Grant, J.R., Sajed, T., Johnson D., Li, C., Sayeeda, Z., Assempour, N., Iyckaran, I., Liu., Y., Maciejewski, A., Gale, N., Wilson, A., Chin, L., Cummings, R., Le, D., Pon, A., Knox, C., Wilson, M., 2017, Drug Bank 5.0: major update to the DrugBank database for 2018. *Nucleic Acids Res.* 2017 Nov 8. doi: 10.1093/nar/gkx1037. Diakses tanggal 20 Juli 2021.
- Xu, Z., 2020, Pathological findings of COVID-19 associated with acute respiratory distress syndrome. *Lancet Resp. Med.* 8, 420–422.
- Zhang, L., Jackson, C.B., Mou, H., Ojha, A., Peng, H., Quinlan, B.D., Rangarajan, E.S., Pan, A., Vanderheiden, A., Suthar, M.S., Li, W., Izard, T., Rader, C., Farzan, M., Choe, H., 2020, SARS-CoV-2 spike-protein D614G mutation

increases virion spike density and infectivity, *Nat Commun*, Nov 26;11(1):603.

Zhou, P., 2020, A Pneumonia Outbreak Associated with a New Coronavirus of Probable Bat Origin. *Nature*, 579:270-273.