

## DAFTAR PUSTAKA

- Adham, M., Kurniawan, A.N., Muhtadi, A.I., Roezin, A., Hermani, B., Gondhowiardjo, S., *et al.* 2012. Nasopharyngeal carcinoma in Indonesia: epidemiology, incidence, signs, and symptoms at presentation. *Chin. J. Cancer.* 31: 185–196.
- Adham, M., Stoker, S.D., Wildeman, M.A., Rachmadi, L., Gondhowiardjo, S., Atmakusumah, D., *et al.* 2014. Current Status of Cancer Care for Young Patients with Nasopharyngeal Carcinoma in Jakarta, Indonesia. *PLoS ONE.* 9: 1–9
- Afzal, M., Rahim, A., Naveed, A.K., Ahmed, S., & Kiyani, M.M., 2018. Development of Cost-effective Tetra-primer Amplification Refractory Mutation System (T-ARMS) PCR for the Detection of miR-146a gene rs2910164 C/G Polymorphism in Breast Cancer. *Biochem. Mol. Biol. J.* 04: 1–4.
- Albuquerque, E.X., Pereira, E.F.R., Alkondon, M., & Rogerst, S.W., 2009. Mammalian Nicotinic Acetylcholine Receptors: From Structure to Function. *Physiol. Rev.* 89: 73–120.
- Anderson, L.N., Cotterchio, M., Mirea, L., Ozcelik, H., & Kreiger, N., 2012. Passive cigarette smoke exposure during various periods of life, genetic variants, and breast cancer risk among never smokers. *Am. J. Epidemiol.* 175: 289–301.
- Bei, J., Jia, W., Zeng, Y. 2012. Familial and large scale case-control studies identify genes associated with nasopharyngeal carcinoma. *Semin. Cancer Bio.* 22: 96–106.
- Bei, J.X., Zuo, X.Y., Liu, W.S., Guo, Y.M., & Zeng, Y.X., 2016. Genetic susceptibility to the endemic form of NPC. *Chinese Clin. Oncol.* 5: 1–8.
- Casadei, S., Gulsuner, S., Shirts, B.H., Norquist, B.S., Swisher, E.M., Lee, M.K., *et al.* 2019. Characterization of splice-altering mutations in inherited predisposition to cancer. *PNAS.* 116: 26798–26807.

- CDC (Centers for Disease Control and Prevention), 2008. Global Youth Tobacco Surveillance, 2000–2007. *Morbidity and Mortality Weekly Report* 57: 1–21
- Chang, E.T. & Adami, H.O., 2006. The enigmatic epidemiology of nasopharyngeal carcinoma. *Cancer Epidemiol Biomarkers Prev*;15:1765–1767.
- Chang, E.T., Liu, Z., Hildesheim, A., Liu, Q., Cai, Y., Zhang, Z., *et al.*, 2017. Active and Passive Smoking and Risk of Nasopharyngeal Carcinoma: A Population-Based Case-Control Study in Southern China. *Am. J. Epidemiol.* 185: 1272–1280.
- Cheng, Y., Wang, C., Zhu, M., Dai, J., Wang, Y., Geng, L., *et al.*, 2017. Targeted sequencing of chromosome 15q25 identified novel variants associated with risk of lung cancer and smoking behavior in Chinese. *Carcinogenesis* 38: 552–558
- Ekburanawat, W., Ekpanyaskul, C., Brennan, P., Kanka, C., Tepsuwan, K., Temiyastith, S., *et al.* 2010. Evaluation of non-viral risk factors for nasopharyngeal carcinoma in Thailand: Results from a case-control study. *Asian Pac. J. Cancer Prev.* 11: 929–932.
- Fachiroh, J., Sangrajrang, S., Johansson, M., Renard, H., Gaborieau, V., Chabrier, A., *et al.*, 2012. Tobacco consumption and genetic susceptibility to nasopharyngeal carcinoma (NPC) in Thailand. *Cancer Causes Control* 23: 1995–2002.
- He, P., Yang, X.X., He, X.Q., Chen, J., Li, F.X., Gu, X., *et al.*, 2014. CHRNA3 polymorphism modifies lung adenocarcinoma risk in the Chinese Han population. *Int. J. Mol. Sci.* 15: 5446–5457.
- Hecht, S.S. 1999. DNA adduct formation from tobacco-specific N-nitrosamines. *Mutat Res.* 424: 127–142.
- Heidari, M.M., Hadadzadeh, M., & Fallahzadeh, H., 2019. Development of One-Step Tetra-primer ARMS-PCR for Simultaneous Detection of the Angiotensin Converting Enzyme (ACE) I/D and rs4343 Gene Polymorphisms and the Correlation with CAD Patients. *Avicenna J. Med. Biotechnol.* 11: 118–123.
- Hendrickson, L.M., Guildford, M.J., & Tapper, A.R., 2013. Neuronal nicotinic acetylcholine receptors: Common molecular substrates of nicotine and alcohol

- dependence. *Front. Psychiatry* 4: 1–16.
- Hsieh, Y-C. Lee, C-H., Tu, S-H., Wu, C-H., Hung, C-S., Hsieh M-C., *et al.* 2014. CHRNA9 polymorphisms and smoking exposure synergize to increase the risk of breast cancer in Taiwan. *Carcinogenesis*. 35: 2520–2525.
- Huang, C.Y., Xun, X.J., Wang, A.J., Gao, Y., Ma, J.Y., Chen, Y.T., *et al.*, 2015. CHRNA5 polymorphisms and risk of lung cancer in Chinese Han smokers. *Am. J. Cancer Res.* 5: 3241–3248.
- Hutajulu, S.H., Ng, N., Jati, B.R., Fachiroh, J., Herdini, C., Hariwiyanto, B., *et al.* 2012. Seroreactivity against Epstein-Barr virus (EBV) among first-degree relatives of sporadic EBV-associated nasopharyngeal carcinoma in Indonesia. *J. Med. Virol* 84:768-776
- IARC, 2018. Tobacco smoking. *IARC Monogr. Tob. Smok.* 15: 244–253.
- Jensen, K.P., DeVito, E.E., Herman, A.I., Valentine, G.W., Gelernter, J., Sofuoglu, M. 2015. A CHRNA5 Smoking Risk Variant Decreases the Aversive Effects of Nicotine in Humans. *Neuropsychopharmacology* 40: 2813–2821
- Ji, X., Gui, J., Han, Y., Brennan, P., Li, Y., McKay, J., *et al.*, 2015. The role of haplotype in 15q25.1 locus in lung cancer risk: results of scanning chromosome 15. *Carcinogenesis* 36: 1275–1283.
- Ji, X., Zhang, Weidong, Gui, J., Fan, X., Zhang, Weiwei, Li, Y., *et al.*, 2014. Role of a genetic variant on the 15q25.1 lung cancer susceptibility locus in smoking-associated nasopharyngeal carcinoma. *PLoS One* 9: 1–7.
- Jia, W.H. & Qin, H.D. 2012. Non-viral environmental risk factors for nasopharyngeal carcinoma: a systematic review. *Semin Cancer Biol* 22: 117–126.
- Kapoor, M., Wang, J.C., Bertelsen, S., Bucholz, K., Budde, J.P., Hinrichs, A., *et al.*, 2012. Variants located upstream of CHRNA4 on chromosome 15q25.1 are associated with age at onset of daily smoking and habitual smoking. *PLoS One* 7.
- Kim, A.S., Ko, H.J., Kwon, J.H., & Lee, J.M., 2018. Exposure to secondhand smoke and risk of cancer in never smokers: A meta-analysis of epidemiologic studies. *Int. J. Environ. Res. Public Health* 15.

- Komite Nasional Penanggulangan Kanker (KPKN). 2015. *Panduan Nasional Penanganan Kanker Nasofaring*. Versi 1.0 2015. Kementerian Kesehatan Republik Indonesia
- Lassi, G., Taylor, A.E., Timpson, N.J., Kenny, P.J., Mather, R.J., Eisen, T., et al., 2016. The CHRNA5–A3–B4 Gene Cluster and Smoking: From Discovery to Therapeutics. *Trends Neurosci.* 39: 851–861.
- Li, B., Wang, L., Lu, M.S., Mo, X.F., Lin, F.Y., Ho, S.C., et al., 2015. Passive smoking and breast cancer risk among non-smoking women: A case-control study in China. *PLoS One* 10: 1–14.
- Li, Q., Jiang, M., Zhao, S., Wu, X., Zhou, S., Liu, T., et al., 2015. Interaction between smoking and nicotine acetylcholine receptor subunits alpha 5 gene rs17486278 polymorphisms on lung cancer. *Chinese J. Endem.* 36: 67–70.
- Lou, G., Zhang, Y., Bao, W., & Deng, D., 2014. Association between polymorphisms in CHRNA3 and PHACTR2 gene and environment and NSCLC risk in Chinese population. *Acta Biochim. Pol.* 61: 765–768.
- Luo, J., Margolis, K.L., Wactawski-Wende, J., Horn, K., Messina, C., Stefanick, M.L., et al., 2011. Association of active and passive smoking with risk of breast cancer among postmenopausal women: A prospective cohort study. *Bmj* 342: 536.
- Mattson, H., Soderhall, C., Einarsdottir, E., Lamontagne, M., Gudmundsson, S., Backman H., et al., 2016. Targeted high-throughput sequencing of candidate genes for chronic obstructive pulmonary disease. *BMC Pulm Med.* 11; 16(1):146
- Mehrabi, N., Moshtaghioun, S.M., & Neamatzadeh, H., 2017. Novel mutations of the CHRNA3 gene in non-small cell lung cancer in an Iranian population. *Asian Pacific J. Cancer Prev.* 18: 253–255.
- Nešić, V., Šipetić, S., Vlajinac, H., Stošić-Divjak, S., & Ješić, S., 2010. Risk factors for the occurrence of undifferentiated carcinoma of nasopharyngeal type: A case-control study. *Srp. Arh. Celok. Lek.* 138: 6–10.
- Parkin, D.M., Bray, F., Ferlay, J., Pisani, P. 2005. Global cancer statistics, 2002. *CA Cancer J Clin* 55: 74–108.

- Parkin, D.M., Whelan, S.L., Ferlay, J., Teppo, L., Thomas, D.B., *editors*. 2002. *Cancer incidence in five continents, vol. VIII*. IARC scientific publications No. 155. Lyon: IARC.
- RISKESDAS 2018. Riset Kesehatan Dasar 2018. Kementerian Kesehatan RI.
- Schaal, C., & Chellappan, S., 2016. Nicotine-mediated regulation of nicotinic acetylcholine receptors in non-small cell lung adenocarcinoma by E2F1 and STAT1 transcription factors. *PLoS One* 11.
- Schaal, C., & Chellappan, S.P., 2014. Nicotine-Mediated Cell Proliferation and Tumor Progression in Smoking-Related Cancers. *Mol. Cancer Res.* 12: 14–24.
- Scherf, D.B., Sarkisyan, N., Jacobsson, H., Claus, R., Bermejo, J.L., Peil, B., et al., 2014. Epigenetic screen identifies genotype-specific promoter DNA methylation and oncogenic potential of CHRN4. *Oncogene*. 32: 3329–3338.
- Singh, S., Pillai, S., & Chellappan, S., 2011. Nicotinic acetylcholine receptor signaling in tumor growth and metastasis. *J. Oncol.* 2011.
- Suhda, S., Paramita, D.K., & Fachiroh, J., 2016. Tetra primer ARMS PCR optimization to detect single nucleotide polymorphisms of the CYP2E1 gene. *Asian Pacific J. Cancer Prev.* 17: 3065–3069.
- Sun, H.J., Jia, Y.F., & Ma, X.L., 2017. Alpha5 nicotinic acetylcholine receptor contributes to nicotine-induced lung cancer development and progression. *Front. Pharmacol.* 8: 1–8.
- Sun, Y., Li, J., Zheng, C., & Zhou, B., 2018. Study on polymorphisms in CHRNA5/CHRNA3/CHRN4 gene cluster and the associated with the risk of non-small cell lung cancer. *Oncotarget* 9: 2435–2444.
- Sutton, G.C., 1981. Passive smoking and lung cancer. *Br. Med. J. (Clin. Res. Ed)*. 282: 733.
- Torres, S., Merino, C., Paton, B., Correig, X., & Ramírez, N., 2018. Biomarkers of exposure to secondhand and thirdhand Tobacco smoke: Recent advances and future perspectives. *Int. J. Environ. Res. Public Health* 15: 1–25.
- Tricia, F., Rahaju, P., Suheryanto, R. 2012. Hubungan status nutrisi penderita karsinoma nasofaring stadium lanjut dengan kejadian mukositis sesudah radioterapi. *ORLI* 42(1)

- Tsao, S.W., Yip, Y.L., Tsang, C.M., Pang, P.S., Lau, V.M.Y., Zhang, G., *et al.* 2014. Etiological factors of nasopharyngeal carcinoma. *Oral Oncology*. 50(5): 330 – 338
- Ware, J.J., Van den bree, M.B.M., & Munafò, M.R., 2011. Association of the CHRNA5-A3-B4 gene cluster with heaviness of smoking: A meta-analysis. *Nicotine Tob. Res.* 13: 1167–1175.
- Wildeman, M.A., Fles, R., Herdini, C., Indrasari, R.S., Vincent, A.D., Tjokronagoro, M. *et al.* 2013. Primary treatment results of nasopharyngeal carcinoma (NPC) in Yogyakarta, Indonesia. *PLoS ONE*. 8(5): e63706
- World Health Organization (WHO). 2008. *WHO report on the global tobacco epidemic: the MPOWER package*. Geneva: World Health Organization.
- World Health Organization (WHO). 2009. *WHO report on the global tobacco epidemic: Implementing smoke-free environments*. Geneva: World Health Organization.
- World Health Organization, 2019. Indonesia Source GLOBOCAN 2018. *Int. Agency Res. Cancer* 256: 1–2.
- Xu, Z.W., Wang, G.N., Dong, Z.Z., Li, T.H., Cao, C., & Jin, Y.H., 2015. CHRNA5 rs16969968 polymorphism association with risk of lung cancer - evidence from 17,962 lung cancer cases and 77,216 control subjects. *Asian Pacific J. Cancer Prev.* 16: 6685–6690.
- Yang, X., Guo, X., Huang, Z., Da, Y., Xing, W., Li, F., *et al.*, 2019. CHRNA5/CHRNA3 gene cluster is a risk factor for lumbar disc herniation: A case-control study. *J. Orthop. Surg. Res.* 14: 1–7.
- Ye, S., 2001. An efficient procedure for genotyping single nucleotide polymorphisms. *Nucleic Acids Res.* 29: 88e – 88. 8
- Yuan, J.M., Wang, X.L., Xiang, Y.B., Gao, Y.T., Ross, R.K., & Yu, M.C., 2000. Non-dietary risk factors for nasopharyngeal carcinoma in Shanghai, China. *Int. J. Cancer* 85: 364–369.
- Zhang, Y., Jiang, M., Li, Q., Liang, W., He, Q., Chen, W., *et al.*, 2016. Chromosome 15q25 (CHRNA3-CHRNA4) Variation Indirectly Impacts Lung Cancer Risk in Chinese Males. *PLoS One* 11: 1–12.