

## DAFTAR PUSTAKA

- Bray, F., Ferlay, J., Soerjomataram, I., Siegel, R. L., Torre, L. A., & Jemal, A. (2018). Global cancer statistics 2018: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA: A Cancer Journal for Clinicians*, 68(6), 394–424. <https://doi.org/10.3322/caac.21492>
- Chan, B. A., & Hughes, B. G. M. (2015). Targeted therapy for non-small cell lung cancer: Current standards and the promise of the future. *Translational Lung Cancer Research*, 4(1). <https://tlcr.amegroups.com/article/view/2699>
- Chen, X., Du, J., Jiang, R., & Li, L. (2018). MicroRNA-214 inhibits the proliferation and invasion of lung carcinoma cells by targeting JAK1. *American Journal of Translational Research*, 10(4), 1164–1171.
- Dong, J., Li, B., Lin, D., Zhou, Q., & Huang, D. (2019). Advances in Targeted Therapy and Immunotherapy for Non-small Cell Lung Cancer Based on Accurate Molecular Typing. *Frontiers in Pharmacology*, 10, 230. <https://doi.org/10.3389/fphar.2019.00230>
- Fan, X., Wang, X., Zhang, M., Deng, H., & Liu, Y. (2020). Comparison detection methods for EGFR in formalin-fixed paraffin-embedded tissues of patients with NSCLC. *Pathology - Research and Practice*, 216(1), 152783. <https://doi.org/10.1016/j.prp.2019.152783>
- Ferreiro, L., Suárez-Antelo, J., Álvarez-Dobaño, J. M., Toubes, M. E., Riveiro, V., & Valdés, L. (2020). Malignant Pleural Effusion: Diagnosis and Management. *Canadian Respiratory Journal*, 2020, 2950751. <https://doi.org/10.1155/2020/2950751>
- Florczuk, M., Szpechcinski, A., & Chorostowska-Wynimko, J. (2017). miRNAs as Biomarkers and Therapeutic Targets in Non-Small Cell Lung Cancer: Current Perspectives. *Targeted Oncology*, 12(2), 179–200. <https://doi.org/10.1007/s11523-017-0478-5>
- Gridelli, C., Rossi, A., Carbone, D. P., Guarize, J., Karachaliou, N., Mok, T., Petrella, F., Spaggiari, L., & Rosell, R. (2015). Non-small-cell lung cancer.

- Nature Reviews Disease Primers*, 1(1), 15009.  
<https://doi.org/10.1038/nrdp.2015.9>
- Han, F., He, J., Li, F., Yang, J., Wei, J., Cho, W., & Liu, X. (2015). Emerging Roles of MicroRNAs in EGFR-Targeted Therapies for Lung Cancer. *Biomed Research International*, 2015, 672759–672759.  
<https://doi.org/10.1155/2015/672759>
- Hsu, P.-C., Jablons, D. M., Yang, C.-T., & You, L. (2019). Epidermal Growth Factor Receptor (EGFR) Pathway, Yes-Associated Protein (YAP) and the Regulation of Programmed Death-Ligand 1 (PD-L1) in Non-Small Cell Lung Cancer (NSCLC). *International Journal of Molecular Sciences*, 20(15), 3821. <https://doi.org/10.3390/ijms20153821>
- Inamura, K. (2017). Major Tumor Suppressor and Oncogenic Non-Coding RNAs: Clinical Relevance in Lung Cancer. *Cells*, 6(2), E12.  
<https://doi.org/10.3390/cells6020012>
- Khan, J., Lieberman, J. A., & Lockwood, C. M. (2017). Variability in, variability out: Best practice recommendations to standardize pre-analytical variables in the detection of circulating and tissue microRNAs. *Clinical Chemistry and Laboratory Medicine*, 55(5), 608–621. Scopus.  
<https://doi.org/10.1515/cclm-2016-0471>
- Kohno, T., Nakaoku, T., Tsuta, K., Tsuchihara, K., Matsumoto, S., Yoh, K., & Goto, K. (2015). Beyond ALK-RET, ROS1 and other oncogene fusions in lung cancer. *Translational Lung Cancer Research*, 4(2), 156–164.  
<https://doi.org/10.3978/j.issn.2218-6751.2014.11.11>
- Lantuejoul, S., Rouquette, I., Brambilla, E., & Travis, W. D. (2016). [New WHO classification of lung adenocarcinoma and preneoplasia]. *Annales De Pathologie*, 36(1), 5–14. <https://doi.org/10.1016/j.annpat.2015.11.010>
- Le Calvez, F., Mukeria, A., Hunt, J. D., Kelm, O., Hung, R. J., Tanière, P., Brennan, P., Boffetta, P., Zaridze, D. G., & Hainaut, P. (2005). TP53 and KRAS mutation load and types in lung cancers in relation to tobacco smoke: Distinct patterns in never, former, and current smokers. *Cancer Research*, 65(12), 5076–5083. <https://doi.org/10.1158/0008-5472.CAN-05-0551>

- Liao, J., Lin, J., Lin, D., Zou, C., Kurata, J., Lin, R., He, Z., & Su, Y. (2017). Down-regulation of miR-214 reverses erlotinib resistance in non-small-cell lung cancer through up-regulating LHX6 expression. *Scientific Reports*, 7(1), 781. <https://doi.org/10.1038/s41598-017-00901-6>
- Long, H., Wang, Z., Chen, J., Xiang, T., Li, Q., Diao, X., & Zhu, B. (2015). MicroRNA-214 promotes epithelial-mesenchymal transition and metastasis in lung adenocarcinoma by targeting the suppressor-of-fused protein (Sufu). *Oncotarget*, 6(36), 38705–38718. <https://doi.org/10.18632/oncotarget.5478>
- Meza, R., Meernik, C., Jeon, J., & Cote, M. L. (2015). Lung cancer incidence trends by gender, race and histology in the United States, 1973-2010. *PloS One*, 10(3), e0121323. <https://doi.org/10.1371/journal.pone.0121323>
- Morgensztern, D., Campo, M. J., Dahlberg, S. E., Doebele, R. C., Garon, E., Gerber, D. E., Goldberg, S. B., Hammerman, P. S., Heist, R. S., Hensing, T., Horn, L., Ramalingam, S. S., Rudin, C. M., Salgia, R., Sequist, L. V., Shaw, A. T., Simon, G. R., Somaiah, N., Spigel, D. R., ... Govindan, R. (2015). Molecularly targeted therapies in non-small-cell lung cancer annual update 2014. *Journal of Thoracic Oncology: Official Publication of the International Association for the Study of Lung Cancer*, 10(1 Suppl 1), S1-63. <https://doi.org/10.1097/JTO.0000000000000405>
- Myers, D. J., & Wallen, J. M. (2021). Lung Adenocarcinoma. In *StatPearls*. StatPearls Publishing. <http://www.ncbi.nlm.nih.gov/books/NBK519578/>
- Oh, S., Ronaghi, R., & Cai, G. (2019). Molecular Testing on Pleural Fluid Samples. *Seminars in Respiratory and Critical Care Medicine*, 40(03), 340–346. <https://doi.org/10.1055/s-0039-1695702>
- Paris, C., Clement-Duchene, C., Vignaud, J. M., Gislard, A., Stoufflet, A., Bertrand, O., Thiberville, L., Grosdidier, G., Martinet, Y., Benichou, J., & Hainaut, P. (2010). Relationships between lung adenocarcinoma and gender, age, smoking and occupational risk factors: A case–case study. *Lung Cancer*, 68(2), 146–153. <https://doi.org/10.1016/j.lungcan.2009.06.007>
- Peters, S., Adjei, A. A., Gridelli, C., Reck, M., Kerr, K., Felip, E., & ESMO Guidelines Working Group. (2012). Metastatic non-small-cell lung cancer

- (NSCLC): ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up. *Annals of Oncology: Official Journal of the European Society for Medical Oncology*, 23 Suppl 7, vii56-64. <https://doi.org/10.1093/annonc/mds226>
- Rolfo, C., Castiglia, M., Perez, A., Reclusa, P., Pauwels, P., Sober, L., Passiglia, F., & Russo, A. (2017). Liquid Biopsy in Non-Small Cell Lung Cancer (NSCLC). In A. Russo, A. Giordano, & C. Rolfo (Eds.), *Liquid Biopsy in Cancer Patients* (pp. 103–115). Springer International Publishing. [https://doi.org/10.1007/978-3-319-55661-1\\_12](https://doi.org/10.1007/978-3-319-55661-1_12)
- Sharma, T., Hamilton, R., & Mandal, C. C. (2015). miR-214: A potential biomarker and therapeutic for different cancers. *Future Oncology*, 11(2), 349–363. <https://doi.org/10.2217/fon.14.193>
- Shidham, V. B., & Atkinson, B. F. (2007). *Cytopathologic diagnosis of serous fluids*. Saunders/Elsevier. <http://site.ebrary.com/id/10422779>
- Shin, Y. M., Jieun Yun, Ok-Jun Lee, Hye-Suk Han, Lim, S.-N., An, J. Y., Lee, K. H., Lee, K. M., & Choe, K. H. (2014). Diagnostic Value of Circulating Extracellular miR-134, miR-185, and miR-22 Levels in Lung Adenocarcinoma-Associated Malignant Pleural Effusion. *Cancer Research and Treatment*, 46(2), 178–185. <https://doi.org/10.4143/crt.2014.46.2.178>
- Szpechcinski, A., Florczuk, M., Duk, K., Zdral, A., Rudzinski, S., Bryl, M., Czyzewicz, G., Rudzinski, P., Kupis, W., Wojda, E., Giedronowicz, D., Langfort, R., Barinow-Wojewodzki, A., Orłowski, T., & Chorostowska-Wynimko, J. (2019). The expression of circulating miR-504 in plasma is associated with EGFR mutation status in non-small-cell lung carcinoma patients. *Cellular and Molecular Life Sciences*, 76(18), 3641–3656. <https://doi.org/10.1007/s00018-019-03089-2>
- Travis, W., Brambilla, E., Burke, A., Marx, A., & Nicholson, A. (2015). *WHO Classification of Tumours of the Lung, Pleura, Thymus and Heart*. <https://publications.iarc.fr/Book-And-Report-Series/Who-Classification-Of-Tumours/WHO-Classification-Of-Tumours-Of-The-Lung-Pleura-Thymus-And-Heart-2015>

- Underwood, C. I. M., Musick, A., & Glass, C. (2019, June 6). *Adenocarcinoma overview*.  
<https://www.pathologyoutlines.com/topic/lungtumoradenocarcinoma.html>
- Vasef, M. A., Auerbach, A., Czuchlewski, D. R., Bocklage, T., Chabot-Richards, D., Aguilera, N., & Karner, K. H. (Eds.). (2016). *Diagnostic pathology: Molecular oncology: get full access and more at ExpertConsult.com*. Elsevier.
- Wang, Y.-H., Zhu, Z.-R., Tong, D., Zhou, R., Xiao, K., & Peng, L. (2021). MicroRNAs and Lung Cancer: A Review Focused on Targeted Genes. *Exploratory Research and Hypothesis in Medicine*, 000(000), 1–10.  
<https://doi.org/10.14218/ERHM.2020.00058>
- Wang, Y.-S., Wang, Y.-H., Xia, H.-P., Zhou, S.-W., Schmid-Bindert, G., & Zhou, C.-C. (2012). MicroRNA-214 regulates the acquired resistance to gefitinib via the PTEN/AKT pathway in EGFR-mutant cell lines. *Asian Pacific Journal of Cancer Prevention: APJCP*, 13(1), 255–260.  
<https://doi.org/10.7314/apjcp.2012.13.1.255>
- Wojczakowski, W., Kobylarek, D., Lindner, J., Limphaibool, N., & Kaczmarek, M. (2019). MicroRNAs – novel biomarkers for malignant pleural effusions. *Contemporary Oncology*, 23(3), 133–140.  
<https://doi.org/10.5114/wo.2019.89241>
- Zhang, J., & Wu, J. (2021). The Potential Roles of Exosomal miR-214 in Bone Metastasis of Lung Adenocarcinoma. *Frontiers in Oncology*, 10.  
<https://doi.org/10.3389/fonc.2020.611054>
- Zhang, K., Zhang, M., Jiang, H., Liu, F., Liu, H., & Li, Y. (2018). Down-regulation of miR-214 inhibits proliferation and glycolysis in non-small-cell lung cancer cells via down-regulating the expression of hexokinase 2 and pyruvate kinase isozyme M2. *Biomedicine & Pharmacotherapy = Biomedecine & Pharmacotherapie*, 105, 545–552.  
<https://doi.org/10.1016/j.biopha.2018.06.009>
- Zhang, Y.-L., Yuan, J.-Q., Wang, K.-F., Fu, X.-H., Han, X.-R., Threapleton, D., Yang, Z.-Y., Mao, C., & Tang, J.-L. (2016). The prevalence of EGFR

mutation in patients with non-small cell lung cancer: A systematic review  
and meta-analysis. *Oncotarget*, 7(48), 78985–78993.  
<https://doi.org/10.18632/oncotarget.12587>

Zhao, C., Xu, Y., Zhang, Y., Tan, W., Xue, J., Yang, Z., Zhang, Y., Lu, Y., & Hu,  
X. (2013). Downregulation of miR-145 contributes to lung adenocarcinoma  
cell growth to form brain metastases. *Oncology Reports*, 30(5), 2027–2034.  
<https://doi.org/10.3892/or.2013.2728>



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**PROFIL EKSPRESI MikroRNA-214 CAIRAN PLEURA PADA PASIEN ADENOKARSINOMA PARU  
BERDASARKAN STATUS MUTASI  
EGFR**

M. RIDOTU SOLICHIN, dr. Didik Setyo Heriyanto, Sp.PA(K)., PhD; dr. Ery Kus Dwianingsih, Sp.PA(K)., PhD  
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