

DAFTAR PUSTAKA

- [1] Anton, H., 2000, *Elementary Linear Algebra*, Eight Edition, John Wiley and Sons, Inc., New York.
- [2] Taylor, A. E. and Mann, W.R., 1983, *Advanced Calculus Third Edition*, John Wiley and Son, New York.
- [3] Thomson, B.S., Bruckner, J.B. and Bruckner, A.M., 2001, *Elementary Real Analysis*, Prentice Hall, USA.
- [4] Ross, S. L., 1984, *Differential Equation*, Third Edition, John Wiley and Sons, Singapore.
- [5] Anton, H., Rorres, C., dan Kaul, A., 2019, *Elementary Linear Algebra*, Twelfth Edition, John Wiley and Sons, Inc., New York.
- [6] Wiggins, S., 2003, *Introduction to Applied Nonlinear Dynamical Systems and Chaos Second Edition*, Springer Verlag, New York.
- [7] Olsder, G.J. dan van der Woude, J. W., 2003, *Mathematical Systems Theory Second Edition*, Delft University Press, The Netherlands.
- [8] Raluca Eftimie, Charlotte Barelle., 2021, Mathematical investigation of innate immune responses to lung cancer: The role of macrophages with mixed phenotypes, *Journal of Theoretical Biology*, 524, 0022-5193.
- [9] Sato, T., Morita, M., Tanaka, R., Inoue, Y., Nomura, M., Sakamoto, Y., ... Tanuma, N., (2017), Ex vivo model of non-small cell lung cancer using mouse lung epithelial cells, *Oncology Letters*, 14, 6863-6868.
- [10] Yamaji, H., Iizasa, T., Koh, E., Suzuki, M., Otsuji, M., Chang, H., ... Fujisawa, T., (2004), Correlation between interleukin 6 production and tumor proliferation in non-small cell lung cancer, *Cancer Immunology, Immunotherapy*, 53, 786-792.

- [11] Stankovic, B., Bjørhovde, H. A. K., Skarshaug, R., Aamodt, H., Frafjord, A., Müller, E., ... Corthay, A., (2019), *Immune cell composition in human non-small cell lung cancer*, *Frontiers in immunology*, 9, 3101.
- [12] Haley, PJ, Muggenburg, BA, Weissman, DN, Bice, DE.,(1991), Perbandingan morfologi dan morfometri makrofag alveolar dari enam spesies, *Jurnal anatomi Amerika* , 191, 401-407.
- [13] Del Monte, U.,(2009), Does the cell number 10⁹ still really fit one gram of tumor tissue?, *Cell cycle*, 8, 505-506.
- [14] Redente, E. F., Orlicky, D. J., Bouchard, R. J., Malkinson, A. M., (2007), Tumor signaling to the bone marrow changes the phenotype of monocytes and pulmonary macrophages during urethane-induced primary lung tumorigenesis in A/J mice,*The American journal of pathology*, 170, 693-708.
- [15] Chitu, V., Yeung, YG, Yu, W., Nandi, S., Stanley, ER., (2011), *Pengukuran pertumbuhan dan diferensiasi makrofag*, *Protokol saat ini dalam imunologi* , 92, 14-20.
- [16] Patel, A. A., Zhang, Y., Fullerton, J. N., Boelen, L., Rongvaux, A., Maini, A. A., ... Yona, S., (2017), The fate and lifespan of human monocyte subsets in steady state and systemic inflammation, *Journal of Experimental Medicine*, 214, 1913-1923.
- [17] Almatroodi SA, McDonald CF, Darby IA, Pouniotis DS.,2016,Characterization of M1/M2 Tumour Associated Macrophages (TAMs) and Th1/Th2 Cytokine Profiles in Patients with NSCLC, *Cancer Microenviron*, 9, 1-11.
- [18] Perko, L., 2001, *Differential Equation and Dynamical Systems Third Edition*, *Springer-Verlag*, New York.
- [19] Sherbert, D.R. and Bartle, R.S., 2011, *Introduction to Real Analysis*, John Wiley and Sons, Inc., America.

- [20] Sica A, Mantovani A.,2012,Macrophage plasticity and polarization: in vivo veritas, *J Clin Invest*, 122, 787-95.
- [21] Xu F, Wei Y, Tang Z, Liu B, Dong J.,2020,Tumor associated macrophages in lung cancer: Friend or foe? (Review), *Mol Med Rep*, 22, 4107-4115.
Tengfei , Yali Liu, Chang Li, Chun Xu, Cheng Ding, Jun Chen, Jun Zhao,
- [22] Chen T, Liu Y, Li C, Xu C, Ding C, Chen J, Zhao Jun.,2021,Tumor-derived exosomal circFARSA mediates M2 macrophage polarization via the PTE-N/PI3K/AKT pathway to promote non-small cell lung cancer metastasis, *Cancer Treatment and Research Communications*, 28, 2468-2942.
- [23] Ma, J., Liu, L., Che, G., Yu, N., Dai, F. dan You, Z., 2010, The M1 form of tumor associated macrophages in non small cell lung cancer is positively associated with survival time, *BMC cancer*, 10, 1-9.
- [24] Ohri, C. M., Shikotra, A., Green, R. H., Waller, D. A., Bradding, P, (2009), Macrophages within NSCLC tumour islets are predominantly of a cytotoxic M1 phenotype associated with extended survival, *European Respiratory Journal*, 33, 118-126.
- [25] Lin, Y., Xu, J. Lan, H.,2019, Makrofag terkait tumor dalam metastasis tumor: peran biologis dan aplikasi terapi klinis, *J Hematol Oncol*, 12 , 76 .
- [26] Cao, L., Che, X., Qiu, X., Li, Z., Yang, B., Wang, S., ... Liu, Y.,2019, M2 macrophage infiltration into tumor islets leads to poor prognosis in non small cell lung cancer, *Cancer management and research*, 11, 6125.
- [27] Heusinkveld, M., van Der Burg, S. H.,2011, Identification and manipulation of tumor associated macrophages in human cancers, *Journal of translational medicine*, 9, 1-14.
- [28] Jackute, J., Zemaitis, M., Pranys, D., Sitkauskienė, B., Miliauskas, S., Vaitkiene, S., Sakalauskas, R.,2018, Distribution of M1 and M2 macrophages in tumor islets and stroma in relation to prognosis of non-small cell lung cancer, *BMC immunology*, 19, 1-13.

- [29] Eftimie, R.,2020, Investigation into the role of macrophages heterogeneity on solid tumour aggregations, *Mathematical Biosciences*, 322, 108325.
- [30] Gomez Perdiguero E et al.,2015,Tissue-resident macrophages originate from yolk-sac-derived erythro-myeloid progenitors,*Nature*, 518 ,547-51.
- [31] V. Keshamouni et al.,2010,*Lung Cancer Metastasis*, Biomedical Science Res. Bldg.,USA.
- [32] Das, P., Das, P., Mukherjee, S.,2020,Stochastic dynamics of Michaelis–Menten kinetics based tumor-immune interactions, *Physica A: Statistical Mechanics and its Applications*, 541, 123603.
- [33] SIEGEL, D., LOZINSKI, D. W.,1990, MONOTONICITY PROPERTIES OF THE MICHAELIS-MENTEN REACTIONS OF ENZYME KINETICS, *The Rocky Mountain Journal of Mathematics*, 20, 1157–1172.
- [34] National Cancer Institute,*Definition of Tumor*, diakses pada 22 September 2022.
- [35] Indonesia Cancer Care Community.,2022,*Kanker Paru*. diakses pada 04 Oktober 2022.
- [36] American Cancer Society .,2022,*What is Cancer*, diakses pada 22 September 2022.
- [37] National Cancer Institute.,2021,*Understanding Cancer*, diakses pada 22 September 2022.
- [Centers for Disease Control and Prevention] Centers for Disease Control and Prevention,*Lung Cancer*. diakses pada 22 September 2022.
- [39] American Cancer Society .,2022,*Lung Cancer*, diakses pada 22 September 2022.
- [40] American Lung Association.,2022,*How Lung Works*, diakses pada 22 September 2022.

- [41] Bradford, Alina., 2018, *Lungs: Facts, Function and Diseases*, diakses pada 4 Oktober 2022.
- [42] Encyclopædia Britannica., 2006, diakses pada 22 September 2022.
- [43] SHUTTERSTOCK, *Ilustrasi Kanker Paru*, diakses pada 22 September 2022.
- [44] American Society of Clinical Oncology., 2021, *Fluid Around the Lungs or Malignant Pleural Effusion*, diakses pada 12 Oktober 2022.
- [45] Kahn, A., 2021, *What Is Pleural Effusion (Fluid in the Chest)?*, healthline, diakses pada 12 Oktober 2022.
- [46] Hunstman Cancer Institute., 2021, *Even Non Smokers can get Lung Cancer*, University of Utah.
- [47] Zi, Z., 2011, Pendekatan analisis sensitivitas diterapkan pada model biologi sistem, *Biologi sistem IET*, 5, 336-346.
- [48] Josephs, D. H., Bax, H. J., Karagiannis, S. N., (2015), Tumour-associated macrophage polarisation and re-education with immunotherapy, *Front Biosci (Elite Ed)*, 7, 293-308.
- [49] De Boer, RJ, dan Perelson, AS, (2013), Mengukur pergantian limfosit T, *Jurnal biologi teoretis*, 327, 45-87.