

## DAFTAR PUSTAKA

- Adham, M., Rohdiana, D., Mayangsari, I. D., Musa, Z., 2014, Delayed Diagnosis of Nasopharyngeal Carcinoma in A Patient with Early Signs of Unilateral Ear Disorder, *Med. J. Indones.*, 23, 52-57.
- Arino, J., 2007, Linear ODEs, *server.math.umanitoba.ca/~jarino/courses/math4800/math4800\_slides\_linear\_ODEs.4p.pdf*, diakses tanggal 24 Maret 2015.
- Bai, L., Zhu, W. G., 2006, p53: Structure, Function, and Therapeutic Applications, *J. Cancer Mol.*, 2, 141-153.S
- Blake, S. M. S., Eliopoulos, A. G., Dawson, C. W., Young, L. S., 2001, The Transmembrane Domains of the EBV-Encoded Latent Membrane Protein 1 (LMP1) Variant CAO Regulate Enhanced Signalling Activity, *Virology*, 282, 278-287.
- Brennan, B., 2006, Nasopharyngeal Carcinoma, *Orphanet J. Rare Dis.*, 1, 1-5.
- Cao, S., Chang, K. H., Luthra, R., Liu, J., 2003, Frameshift Mutations in the Bax Gene Are Not Involved in Development of Ovarian Endometrioid Carcinoma, *Mod. Pathol.*, 16, 1048-1052.
- Carroll, E. P., Okuda M., Horn, F. H., Biddinger, P., Stambrook, J. P., Gleich L. L., Li, Q. Y., Tarapore, P., Fukasawa, K., 1999, Centrosome Hyperamplification in Human Cancer: Chromosome Instability Induced by p53 Mutation and/or MDM2 Overexpression, *Oncogene*, 18, 1935-1944.
- Chen, J., Hu, C. F., Hou, J. H., Shao, Q., Yan, L. X., *et al.*, 2010, Epstein-Barr Virus Encoded Latent Membrane Protein 1 Regulates mTOR Signaling Pathway Genes Which Predict Poor Prognosis of Nasopharyngeal Carcinoma, *Journal of Translational Medicine*, 8, 1-9.
- Chen, R. Y., Liu, M. T., Chang, Y. T., Wu, C. C., Hu, C. Y., *et al.*, 2008, Epstein-Barr Virus Latent Membrane Protein 1 Represses DNA Repair through the

- PI3K/Akt/FOXO3a Pathway in Human Epithelial Cells, *J. Virol*, 82(16), 8124-8137.
- Cohen, J. I., 2000, Epstein-Barr Virus Infection, *N. Engl. J. Med.*, 343, 481-492.
- Dahia, P. L. M., 2000, PTEN, A Unique Tumor Suppressor Gene, *Endocrine-Related Cancer*, 7, 115, 129.
- Do, H. K., Kyoohyoung, R., Sunghoon, K., 2009, A Theoretical Model for p53 Dynamics: Identifying Optimal Therapeutic Strategy for Its Activation and Stabilization, *Cell Cycle*, 8, 3707-3716.
- Effert, P., McCoy, R., Abdel-Hamid, M., Flynn, M., Zhang, Q., Busson, P., Turz, T., Liu, E., Rab-Traub, N., 1992, Alterations of the p53 Gene in Nasopharyngeal Carcinomas, *J. Virol*, 66, 3768-3775.
- Elias, J., Clairambault, J., 2014, Reaction-Diffusion Systems for Spatio-Temporal Intracellular Protein Networks: A Beginner's Guide with Two Examples, *Computational and Structural Biotechnology Journal*, 10, 12-22.
- Elias, J., Dimitrio, L., Clairambault, J., Natalini, R., 2014, Dynamics of p53 in Single Cell: Physiologically Based ODE and Reaction-Diffusion PDE Models, *Phys. Biol.*, 11, 1-36.
- Elias, J., Dimitrio, L., Clairambault, J., Natalini, R., 2014, The p53 Protein and Its Molecular Network: Modelling a Missing Link between DNA Damage and Cell Fate, *Biochim. Biophys. Acta*, 1844, 232-247.
- Fan, Q. D., Wu, G., Liu, Z. R., 2014, Dynamics of Posttranslational Modifications of p53, *Computational and Mathematical Methods in Medicine*, 2014, 1-8.
- Frappier, L., 2012, The Epstein-Barr Virus EBNA1 Protein, *Scientifica*, 2012, 1-15.
- Gomez, J. A., 2010, Development of Cell Penetrating Bax Inhibiting Peptides (BIP), *Dissertation*, Department of Pharmacology Case Western Reserve University, Cleveland.

- Gonze, D., Kaufman, M., 2013, Chemical and Enzyme Kinetics, [homepages.ulb.ac.be/~dgonze/TEACHING/BIOL\\_F\\_460.html](http://homepages.ulb.ac.be/~dgonze/TEACHING/BIOL_F_460.html), diakses tanggal 29 November 2014.
- Grigorova, M., Staines, J. M., Ozdag, H., Caldas, C., Edwards, P. A. W., 2004, Possible Causes of Chromosome Instability: Comparison of Chromosomal Abnormalities in Cancer Cell Lines with Mutation in BRCA1, BRCA2, CHK2, and BUB1, *Cytogenetic and Genome Research*, 104, 333-340.
- Gruhne, B., Sompallae, R., Marescotta, D., Kamranvara, A. K., Gastaldello, S., *et al.*, 2008, The Epstein-Barr Virus Nuclear Antigen-1 Promotes Genomic Instability via Induction of Reactive Oxygen Species, *Proceedings of the National Academy of Sciences of the United States of America*, 106, 2313-2318.
- Halder, S., *et al.*, 2009, Early Events Associated with Infection of Epstein-Barr Virus Infection of Primary B-Cells, *PLoS One*, 4, 1-16.
- Iwakuma, T., Lozano, G., 2003, MDM2, An Introduction, *Molecular Cancer Research*, 1, 993-1000.
- Jeggo, P. A., Löbrich, M., 2007, DNA Double-Strand Breaks: Their Cellular and Clinical Impact?, *Oncogene*, 26, 7717-7719.
- Kakumoto, T., Nakata, T., 2013, Optogenetic Control of PIP3: PIP3 Is Sufficient to Induce the Actin-Based Active Part of Growth Cones and Is Regulated via Endocytosis, *PLoS ONE*, 8, 1-17.
- Kaw, A., Kalu E.E., Nguyen, D., 2009, *Numerical Methods with Applications*, 2nd Edition, University of South Florida, USA.
- Keener, J., Sneyd, J., 1998, *Mathematical Physiology*, 8, Springer-Verlag, Inc., New York.
- Klipp, E., Herwig, R., Kowald, A., Wierling, C., Lehrach, H., 2005, *Systems Biology in Practice: Concepts, Implementation and Application*, WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim.

- Kruman, I. I., 2011, *Cell Cycle and DNA Damage Response in Postmitotic Neurons, DNA Repair*, InTech, Texas.
- Li, Q., Lozano, G., 2012, Molecular Pathways: Targeting Mdm2 and Mdm4 in Cancer Therapy, *Clin Cancer Res*, 19, 34-41.
- Liu, X., Bardwell, L., Nie, Q., 2010, A Combination of Multisite Phosphorylation and Substrate Sequestration Produces Switchlike Responses, *Biophysical Journal*, 98, 1396-1407.
- Lohmiller, W., Slotine, J. J. E., 1998, On Contraction Analysis for Nonlinear Systems, *Elsevier*, 34, 683-696.
- Lowe, J., Cha, H., Lee, M. O., Mazur, S. J., Appella, E., Fornace, A. J., Jr., 2012, Regulation of the Wip1 Phosphatase and Its Effects on the Stress Response, *Front Biosci.*, 17, 1480-1498.
- Mainou, B. A., 2007, Biologic and Molecular Properties of LMP1: CTARs, Strains, and Beyond, *Dissertation*, Department of Microbiology and Immunology University of North Carolina, Chapel Hill.
- Marquez, H. J., 2003, *Nonlinear Control Systems: Analysis and Design*, John Wiley & Sons, Inc., New Jersey.
- Matsuda, S., 2014, Regulation in Cell Cycle via p53 and PTEN Tumor Suppressors, *Cancer Stud. Mol. Med. Open J.*, 1, 1-7.
- McKinnon, P. J., 2004, ATM and Ataxia Telangiectasia: Second in Molecular Medicine Review Series, *EMBO reports*, 26, 772-776.
- Mills, K. D., Ferguson, D. O., Alt, F. W., 2003, The Role of DNA Breaks in Genomic Instability and Tumorigenesis, *Immunol. Rev.*, 194, 77-95.
- Park, S., 2007, AKT Function and Human Oncogenesis, *Dissertation*, Department of Pathology and Cell Biology College of Medicine University of South Florida, Tampa.

- Perko, L., 2001, *Differential Equation and Dynamical System*, 3rd Edition, Springer-Verlag, Inc., New York.
- Povarova, O. I., Uversky, V. N., Kuznetsova, I. M., Turoverov, K. K., 2014, Actin-nous Enigma or Enigmatic Actin: Folding, Structure, and Functions of the Most Abundant Eukaryotic Protein, *Intrinsically Disordered Proteins*, 2, 1-18.
- Pu, T., Zhang, X. P., Liu, F., Wang, W., 2010, Coordination of the Nuclear and Cytoplasmic Activities of p53 in Response to DNA Damage, *Biophysical Journal*, 99, 1696-1705.
- Ramamoorthy, P. A., 2000, Nonlinear and Adaptive (Intelligent) Systems: Modeling, Design, and Control: A Building Block Approach, [www.ece.uc.edu/~pramamoo/CourseWork/BookNonLinearAndAdaptiveSysPDF/files/Chapter7\\_SV\\_2.pdf](http://www.ece.uc.edu/~pramamoo/CourseWork/BookNonLinearAndAdaptiveSysPDF/files/Chapter7_SV_2.pdf), diakses tanggal 25 Maret 2015.
- Sengupta, S., den Boon, J. A., Chen, I. H., Newton, M. A., Dahl, D. B., *et al.*, 2006, Genome-Wide Expression Profiling Reveals EBV-Associated Inhibition of MHC Class I Expression in Nasopharyngeal Carcinoma, *Cancer Res.*, 66, 7999-8006.
- Stevens, J. G., 1989, Human Herpesviruses: a Consideration of the Latent State, *Microbiological Reviews*, 53, 318-332.
- Van Rheenen, J. E., 2006, *PIP<sub>2</sub> as Local Second Messenger: A Critical Re-evaluation*, *Dissertation*, Division of Cell Biology of the Netherlands Cancer Institute, Amsterdam.
- Wee, K. B., Aguda, B. D., 2006, Akt Versus p53 in A Network of Oncogenes and Tumor Suppressor Genes Regulating Cell Survival and Death, *Biophysical Journal*, 91, 857-865.
- Widodo, 2011, *Pengantar Model Matematika: Model Matematika Bidang Pertumbuhan Populasi dan Penyebaran Epidemi*, Jurusan Matematika FMIPA UGM, Yogyakarta.

- Wiggins, S., 2003, *Introduction to Applied Nonlinear Dynamical Systems and Chaos*, Springer-Verlag, Inc., New York.
- Xu, F. H., Xiong, D., Xu, Y. F., Cao, S. M., Xue, W. Q, Qin, H. D., Liu, W. S., Cao, J. Y., Zhang, Y., Feng, Q. S., Chen, L. Z., Li, M. Z., Liu, Z. W., Liu, Q., Hong, M. H., Shugart, Y. Y., Zeng, Y. X., Zeng, M. S., Jia, W. H., 2012, An Epidemiological and Molecular Study of the Relationship between Smoking, Risk of Nasopharyngeal Carcinoma, and Epstein-Barr Virus Activation, *J. Natl. Cancer Inst.*, 1-15.
- Yao, J., Sasaki, Y., Wen, Z., Bassell, G. J., Zheng, J. Q., 2006, An Essential Role for  $\beta$ -Actin mRNA Localization and Translation in  $Ca^{2+}$ -Dependent Growth Cone Guidance, *Nature Neuroscience*, 9, 1265-1273.
- Zakariya, A., 2010, Model Mangsa-Pemangsa dengan Mangsa Sakit, *Tesis*, Jurusan Matematika FMIPA UGM, Yogyakarta.
- Zhang, F., Tagen, M., Throm, S., Mallari, J., Miller, L., Guy, R. K., Dyer, M. A., Williams, R. T., Roussel, M. F., Nemeth, K., Zhu, F., Zhang, J., Lu, M., Panetta, J. C., Boulos, N., Stewart, C. F., 2010, Whole-Body Physiologically Based Pharmacokinetic Model for Nutlin-3a in Mice after Intravenous and Oral Administration, *Drug Metabolism and Disposition*, 39, 15-21.
- Zhou, C. H., Zhang, X. P., Liu, F., Wang, W., 2014, Involvement of miR-605 and miR-34a in the DNA Damage Response Promotes Apoptosis Induction, *Biophysical Journal*, 106, 1792-1800.