

## DAFTAR PUSTAKA

- Agarwal, A., Deepinder, F., Sharma, R. K., Ranga, G., & Li, J. (2008). Effect of cell phone usage on semen analysis in men attending infertility clinic: an observational study. *Fertility and Sterility*, 89(1), 124–128. <https://doi.org/10.1016/j.fertnstert.2007.01.166>
- Ahmad, S. M., & Baker, B. S. (2002). Sex-specific deployment of FGF signaling in *Drosophila* recruits mesodermal cells into the male genital imaginal disc. *Cell* 109:651–661.
- Atli, E., & Ünlü, H. (2006). The effects of microwave frequency electromagnetic fields on the development of *Drosophila melanogaster*. *International Journal of Radiation Biology*, 82(6), 435–441. <https://doi.org/10.1080/09553000600798849>
- Avila, F. W., Sánchez-López, J. A., McGlaughon, J. L., Raman, S., Wolfner, M. F., & Heifetz, Y. (2016). Nature and functions of glands and ducts in the *Drosophila* reproductive tract. In *Extracellular Composite Matrices in Arthropods* (pp. 411–444). Springer International Publishing. [https://doi.org/10.1007/978-3-319-40740-1\\_11](https://doi.org/10.1007/978-3-319-40740-1_11)
- Balmori, A. (2009). Electromagnetic pollution from phone masts. Effects on wildlife. *Pathophysiology*, 16(2–3), 191–199. <https://doi.org/10.1016/j.pathophys.2009.01.007>
- Beira, J. V., & Paro, R. (2016). The legacy of *Drosophila* imaginal discs. In *Chromosoma* (Vol. 125, Issue 4, pp. 573–592). Springer Science and Business Media Deutschland GmbH. <https://doi.org/10.1007/s00412-016-0595-4>
- Bodewein, L., Dechent, D., Graefrath, D., Kraus, T., Krause, T., & Driessen, S. (2022). Systematic review of the physiological and health-related effects of radiofrequency electromagnetic field exposure from wireless communication devices on children and adolescents in experimental and epidemiological human studies. *PLoS ONE*, 17(6 June). <https://doi.org/10.1371/journal.pone.0268641>
- Bolus, H., Crocker, K., Boekhoff-Falk, G., & Chtarbanova, S. (2020). Modeling neurodegenerative disorders in *drosophila melanogaster*. In *International Journal of Molecular Sciences* (Vol. 21, Issue 9). MDPI AG. <https://doi.org/10.3390/ijms21093055>
- Burke, M. K., Rose, M. R., & Burke, M. K. (2009). Experimental evolution with *Drosophila*. *Am J Physiol Regul Integr Comp Physiol*, 296, 1847–1854. <https://doi.org/10.1152/ajpregu.90551.2008.-Experimental>
- Cappucci, U., Casale, A. M., Proietti, M., Marinelli, F., Giuliani, L., & Piacentini, L. (2022). WiFi Related Radiofrequency Electromagnetic Fields Promote Transposable Element Dysregulation and Genomic Instability in *Drosophila melanogaster*. *Cells*, 11(24). <https://doi.org/10.3390/cells11244036>
- Cassano, A., Donato, L., Conidi, C., & Drioli, E. (2008). Recovery of bioactive compounds in kiwifruit juice by ultrafiltration. *Innovative Food Science and Emerging Technologies*, 9(4), 556–562. <https://doi.org/10.1016/j.ifset.2008.03.004>

- Celniker, S. E., & Rubin, G. M. (2003). The *Drosophila Melanogaster* Genome. In *Annual Review of Genomics and Human Genetics* (Vol. 4, pp. 89–117). <https://doi.org/10.1146/annurev.genom.4.070802.110323>
- Chapman, R. F. (2013). *The Insect Structure And Function*. New York. Cambridge University Press.
- Chatterjee, S. S., Uppendahl, L. D., Chowdhury, M. A., Ip, P. L., & Siegal, M. L. (2011). The female-specific Doublesex isoform regulates pleiotropic transcription factors to pattern genital development in *Drosophila*. *Development*, 138(6), 1099–1109. <https://doi.org/10.1242/dev.055731>
- Chyb, S., & Gompel, N. (2013). *Drosophila Morphology Wild-type and classical mutants Atlas of*. [www.elsevierdirect.com/rights](http://www.elsevierdirect.com/rights)
- Demerec, M., & Kaufmann, P. (1996). *Drosophila Guide: Introduction to the genetics and cytology of Drosophila melanogaster*. Cold Spring Harbor Laboratory.
- Elena, Y. (2022). Contribution of transposable elements to transgenerational effects of chronic radioactive exposure of natural populations of *Drosophila melanogaster* living for a long time in the zone of the Chernobyl nuclear disaster. *Journal of Environmental Radioactivity*, 251-252.
- Enjin, A., Zaharieva, E. E., Frank, D. D., Mansourian, S., Suh, G. S. B., Gallio, M., & Stensmyr, M. C. (2016). Humidity sensing in drosophila. *Current Biology*, 26(10), 1352–1358. <https://doi.org/10.1016/j.cub.2016.03.049>
- Estrada B, Casares F, Sanchez-Herrero, E. (2003). Development of the genitalia in *Drosophila melanogaster* . *Differentiation* 71:299–310
- Fauzi, A., Ramadani, S. D., & Sukmawati, I. (2017). The Consistency of Sex Ratio of *Drosophila melanogaster* (Meigen) in Different Physical Environment Condition. *Proceeding of International Conference on Green Technology*, 8(1), 176-179.
- Fedele, G., Green, E. W., Rosato, E., & Kyriacou, C. P. (2014). An electromagnetic field disrupts negative geotaxis in *Drosophila* via a CRY-dependent pathway. *Nature Communications*, 5. <https://doi.org/10.1038/ncomms5391>
- Fernández-Moreno, M. A., Farr, C. L., Kaguni, L. S., & Garesse, R. (2007). *Drosophila melanogaster* as a model system to study mitochondrial biology. *Methods in Molecular Biology (Clifton, N.J.)*, 372, 33–49. [https://doi.org/10.1007/978-1-59745-365-3\\_3](https://doi.org/10.1007/978-1-59745-365-3_3)
- Giancoli, D. C. (2016). *Physics Principles With Applications* 7<sup>th</sup> ed. USA. Pearson.
- Grant, P., Maga, T., Loshakov, A., Singhal, R., Wali, A., Nwankwo, J., Baron, K., & Johnson, D. (2016). An eye on trafficking genes: Identification of four eye color mutations in drosophila. *G3: Genes, Genomes, Genetics*, 6(10), 3185–3196. <https://doi.org/10.1534/g3.116.032508>
- Green, D. A., & Extavour, C. G. (2014). Insulin signalling underlies both plasticity and divergence of a reproductive trait in *Drosophila*. *Proceedings of the Royal Society B: Biological Sciences*, 281(1779). <https://doi.org/10.1098/rspb.2013.2673>
- Griffiths, A. J. F., Doebley, J., Peichel, C., & Wassarman, D. A. (2020). *Introduction to Genetic Analysis* 12<sup>th</sup> ed. USA. Macmillan Learning.
- Hari, K. L., Santerre, A., Sekelsky, J. J., Mckim, K. S., Boyd, J. B., & Hawley, R. S. (1995). The mei.41 Gene of *D. melanogaster* Is a Structural and Functional Homolog of the Human Ataxia Telangiectasia Gene. In *Cell* (Vol. 82).

- ITIS. (2023). *Drosophila melanogaster*. [www.itis.gov](http://www.itis.gov). Diakses pada 3 Maret 2023
- Kivrak, E., Yurt, K., Kaplan, A., Alkan, I., & Altun, G. (2017). Effects of electromagnetic fields exposure on the antioxidant defense system. *Journal of Microscopy and Ultrastructure*, 5(4), 167. <https://doi.org/10.1016/j.jmau.2017.07.003>
- Klepsatel, P., Girish, T. N., Dircksen, H., & Gálíková, M. (2019). Reproductive fitness of *Drosophila* is maximised by optimal developmental temperature. *Journal of Experimental Biology*, 222(10). <https://doi.org/10.1242/jeb.202184>
- Klug, W. S., Cummings, M. R., Spencer, C. A., Palladino, M. A., & Killian, D. J. (2019) *Concepts of Genetics* 12<sup>th</sup> ed. USA. Pearson
- Levine, M., Rumsey, S. C., Daruwala, R., Park, J. B., & Wang, Y. (1999). *Criteria and Recommendations for Vitamin C Intake*. <http://jama.jamanetwork.com/>
- Levitt, B. B., Lai, H. C., & Manville II, A. M. (2022). Low-level EMF effects on wildlife and plants: What research tells us about an ecosystem approach. *Frontiers in Public Health* 10, 1-11. <https://doi.org/10.3389/fpubh.2022.1000840>
- Li, S. si, Zhang, Z. Y., Yang, C. J., Lian, H. Y., & Cai, P. (2013). Gene expression and reproductive abilities of male *Drosophila melanogaster* subjected to ELF-EMF exposure. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, 758(1-2), 95-103. <https://doi.org/10.1016/j.mrgentox.2013.10.004>
- Manzoor, A., Ahmad, T., Bashir, M. A., Hafiz, I. A., & Silvestri, C. (2019). Studies on colchicine induced chromosome doubling for enhancement of quality traits in ornamental plants. In *Plants* (Vol. 8, Issue 7). MDPI AG. <https://doi.org/10.3390/plants8070194>
- Maregu, N. (2016). Long Term Exposure of Mobile Phone Radiation and Human Health. *Journal of Information Engineering and Applications*, 6(8), 22-30.
- Markow, T. A., Reed, L. K., & Kelleher, E. S. (2007). Sperm fate and function in reproductive isolation in *Drosophila*. *Soc. Reprod. Fertil. Suppl.* 65:155-173.
- McColl, N., Auvinen, A., Kesminiene, A., Espina, C., Erdmann, F., de Vries, E., Greinert, R., Harrison, J., & Schüz, J. (2015). European Code against Cancer 4th Edition: Ionising and non-ionising radiation and cancer. *Cancer Epidemiology*, 39, S93-S100. <https://doi.org/10.1016/j.canep.2015.03.016>
- Mirzoyan, Z., Sollazzo, M., Allocca, M., Valenza, A. M., Grifoni, D., & Bellosta, P. (2019). *Drosophila melanogaster*: A model organism to study cancer. In *Frontiers in Genetics* (Vol. 10). Frontiers Media S.A. <https://doi.org/10.3389/fgene.2019.00051>
- Morelli, M. B., Gambardella, J., Castellanos, V., Trimarco, V., & Santulli, G. (2020). Vitamin C and cardiovascular disease: An update. *Antioxidants*, 9(12), 1-23. <https://doi.org/10.3390/antiox9121227>
- Moussian, B., Schwarz, H., Bartoszewski, S., & Nüsslein-Volhard, C. (2005). Involvement of chitin in exoskeleton morphogenesis in *Drosophila melanogaster*. *Journal of Morphology*, 264(1), 117-130. <https://doi.org/10.1002/jmor.10324>
- Nelson, D. L., & Cox, M. M. (2022). *Lehninger Principles of Biochemistry* 8<sup>th</sup> ed. USA. Macmillan Learning.
- Niu, S. (2011). *Radiation protection of workers*. International Labour Office.

- Nothiger, R., Dubendorfer, A., & Epper, F. (1977). Roux's Archives of Developmental Biology Gynandromorphs Reveal Two Separate Primordia for Male and Female Genitalia in *Drosophila melanogaster*. In *Wilhelm Roux's Archives* (Vol. 181).
- Padayatty, S. J., Katz, A., Wang, Y., Eck, P., Kwon, O., Lee, J. H., Chen, S., Corpe, C., Levine, M., Dutta, A., & Dutta, S. K. (2003). Vitamin C as an Antioxidant: Evaluation of Its Role in Disease Prevention. *Journal of the American College of Nutrition*, 22(1), 18–35. <https://doi.org/10.1080/07315724.2003.10719272>
- Panagopoulos D. J. (2012). Effect of microwave exposure on the ovarian development of *Drosophila melanogaster*. *Cell biochemistry and biophysics*, 63(2), 121–132. <https://doi.org/10.1007/s12013-012-9347-0>
- Pehlivan, F. E. (2017). Vitamin C: An Antioxidant Agent. In *Vitamin C*. InTech. <https://doi.org/10.5772/intechopen.69660>
- Pierce, B. (2020). *Genetics A Conceptual Approach* 7<sup>th</sup> ed. USA. Macmillan Learning.
- Podsędek, A., Majewska, I., Redzynia, M., Sosnowska, D., & Koziółkiewicz, M. (2014). In vitro inhibitory effect on digestive enzymes and antioxidant potential of commonly consumed fruits. *Journal of Agricultural and Food Chemistry*, 62(20), 4610–4617. <https://doi.org/10.1021/jf5008264>
- Racuciu, M., Miclaus, S., & Creanga, D. (2015). On the thermal effect induced in tissue samples exposed to extremely low-frequency electromagnetic field. *Journal of Environmental Health Science and Engineering*, 13(1). <https://doi.org/10.1186/s40201-015-0241-8>
- Raff, E. C. (1984). Genetics of microtubule system. *J. Cell. Biol* 99:1-10.
- Rauschert, E. (2010) Survivorship Curves. *Nature Education Knowledge* 3(10):18
- Redei, G. P. (1999). *Genetics Manual : Current Theory, Concepts, Terms*. London. World Scientific.
- Sahut-Barnola, I., Godt, D., Laski, F. A., & Couderc, J. L. (1995). *Drosophila* ovary morphogenesis: analysis of terminal filament formation and identification of a gene required for this process. *Developmental biology*, 170(1), 127–135. <https://doi.org/10.1006/dbio.1995.1201>
- Schupbach, T., Wieschaus, E., & Nothiger, R. (1978). *The Embryonic Organization of the Genital Disc Studied in Genetic Mosaics of Drosophila melanogaster*.
- Setyawati, H., & Mustofa, M. A. (2018). Analisis Kadar Vitamin C Kelopak Rosella (*Hibiscus sabdariffa* L.) Muda. *Jurnal Ilmiah Biologi* 5(2):100-111.
- Sheeba, V., Sharma, V. K., Shubha, K., Chandrashekar, M. K., & Joshi, A. (2000). The Effect of Different Light Regimes on Adult Lifespan in *Drosophila melanogaster* Is Partly Mediated through Reproductive Output. In *JOURNAL OF BIOLOGICAL RHYTHMS*.
- Sheng, X. R., Posenau, T., Gumulak-Smith, J. J., Matunis, E., Van Doren, M., & Wawersik, M. (2009). Jak-STAT regulation of male germline stem cell establishment during *Drosophila* embryogenesis. *Developmental Biology*, 334(2), 335–344. <https://doi.org/10.1016/j.ydbio.2009.07.031>
- Snodgrass, R. E. (1993). *Principles of Insect Morphology*. USA. McGraw-Hill.
- Solomon, E. P., Martin, C. E., Martin, D. W., & Berg, L. R. (2019). *Biology* 11<sup>th</sup> ed. USA. Cengage Learning, Inc.
- Sudaryadi, I., Rahmawati, A. N., & Rizqiyah, M. (2020). Effect of Handphone EMF Radiation on Survival Rate and Morphological Reproductive Organ Changes



- of Fruit Fly (*Drosophila melanogaster* Meigen, 1830). *AIP Conference Proceedings*, 2260. <https://doi.org/10.1063/5.0015846>
- Sun, Y., Yolitz, J., Wang, C., Spangler, E., Zhan, M., & Zou, S. (2013). Aging studies in *drosophila melanogaster*. *Methods in Molecular Biology*, 1048, 77–93. [https://doi.org/10.1007/978-1-62703-556-9\\_7](https://doi.org/10.1007/978-1-62703-556-9_7)
- Takemori, N., & Yammamoto, M. (2009). Proteome mapping of the *drosophila melanogaster* male reproductive syatem. *Proteomics* 9: 2484-2493.
- Tan, S. W. S., Lee, Q. Y., Wong, B. S. E., Cai, Y., & Baeg, G. H. (2017). Redox Homeostasis Plays Important Roles in the Maintenance of the *Drosophila* Testis Germline Stem Cells. *Stem Cell Reports*, 9(1), 342–354. <https://doi.org/10.1016/j.stemcr.2017.05.034>
- Todi, S. V, Sharma, Y., & Eberl, D. F. (2004). *Anatomical and Molecular Design of the Drosophila Antenna as a Flagellar Auditory Organ*.
- Triplehorn, C. A., & Johnson, N. F. (2004). *Borror and DeLong's Introduction to the Study of Insects* 7th ed. USA. Thomson Brooks/Cole.
- Ugur, B., Chen, K., & Bellen, H. J. (2016). *Drosophila* tools and assays for the study of human diseases. In *DMM Disease Models and Mechanisms* (Vol. 9, Issue 3, pp. 235–244). Company of Biologists Ltd. <https://doi.org/10.1242/dmm.023762>
- Urry, L. A., Cain, M. I., Wasserman, S. A., Minorsky, P. V., Orr, R. B., & Campbell, N. A. (2022). *Campbell Biology* 12<sup>th</sup> ed. USA. Pearson.
- US Department of Agriculture. (2016). Green Kiwifruit. USDA National Nutrient Database for Standard Reference, Release 28 (slightly revised). Version: May 2016. US Department of Agriculture (USDA), Agricultural Research Service (ARS), Nutrient Data Laboratory, Beltsville (MD). <http://www.ars.usda.gov/ba/bhnrc/ndl>
- Walker, J., Halliday, D., & Resnick, R. (2014). *Fundamentals of Physics* 10<sup>th</sup> ed. USA. John Wiley & Sons, Inc.
- Wang, H., & Zhang, X. (2017). Magnetic fields and reactive oxygen species. In *International Journal of Molecular Sciences* (Vol. 18, Issue 10). MDPI AG. <https://doi.org/10.3390/ijms18102175>
- Wang, L., Li, Z., & Cai, Y. (2008). The JAK/STAT pathway positively regulates DPP signaling in the *Drosophila* germline stem cell niche. *Journal of Cell Biology*, 180(4), 721–728. <https://doi.org/10.1083/jcb.200711022>
- Wust, P., Kortüm, B., Strauss, U., Nadobny, J., Zschaeck, S., Beck, M., Stein, U., & Ghadjar, P. (2020). Non-thermal effects of radiofrequency electromagnetic fields. *Scientific Reports*, 10(1). <https://doi.org/10.1038/s41598-020-69561-3>
- Zamore, P. D., & Ma, S. (2011). Isolation of *Drosophila melanogaster* Testes. *J. Vis. Exp.* (51):26.
- Zhang, Z. Y., Zhang, J., Yang, C. J., Lian, H. Y., Yu, H., Huang, X. M., & Cai, P. (2016). Coupling mechanism of electromagnetic field and thermal stress on *drosophila melanogaster*. *PLoS ONE*, 11(9). <https://doi.org/10.1371/journal.pone.0162675>