

DAFTAR PUSTAKA

- Acconcia, F., Pallottini, V., & Marino, M. (2015). Molecular mechanisms of action of BPA. *Dose-response*, 13(4), 1559325815610582.
- Alboghobeish, S., Mahdavinia, M., Zeidooni, L., Samimi, A., Oroojan, A. A., Alizadeh, S., Dehghani, M. A., Ahangarpour, A. & Khorsandi, L. (2019). Efficiency of naringin against reproductive toxicity and testicular damages induced by bisphenol a in rats. *Iranian Journal of Basic Medical Sciences*, 22(3): 315-323.
- Ali, S., Steinmetz, G., Montillet, G., Perrard, M. H., Loundou, A., Durand, P., ... & Prat, O. (2014). Exposure to low-dose bisphenol A impairs meiosis in the rat seminiferous tubule culture model: a physiotoxicogenomic approach. *PloS one*, 9(9), e106245.
- Amaliah, A. M., Sutyarso, S., & Rahmanisa, S. (2019). Bisphenol-a (BPA) Menurunkan Diameter Tubulus Seminiferus Tikus Putih Jantan (*Rattus norvegicus*) Galur Sprague dawley. *Jurnal Agromedicine*, 6(2), 270-276.
- Aschberger, K., Johnston, H. J., Stone, V., Aitken, R. J., Hankin, S. M., Peters, S. A., ... & Christensen, F. M. (2010). Review of carbon nanotubes toxicity and exposure—Appraisal of human health risk assessment based on open literature. *Critical reviews in toxicology*, 40(9), 759-790.
- Atmoko, T., & Ma'ruf, A. (2009). Uji Toksisitas Dan Skrining Fitokimia Ekstrak Tumbuhan Sumber Pakan Orangutan Terhadap Larva. *Jurnal Penelitian Hutan dan Konservasi Alam*, 6(1), 37-45.
- Basrowi, M. 2019. MANFAAT PLASTIK. Semarang: ALPRIN.
- Balcombe, J.P, Barnard & Sandusky (2004), Laboratory Routines Cause Animal Stress. *Comtemporary topics in laboratory animal sciences*, 43 (6), 42-51
- Birnbaum, L. S., Bucher, J. R., Collman, G. W., Zeldin, D. C., Johnson, A. F., Schug, T. T., & Heindel, J. J. (2012). Consortium-based science: the NIEHS's multipronged, collaborative approach to assessing the health effects of bisphenol A. *Environmental health perspectives*, 120(12), 1640-1644.
- Björnsdotter, M. K., Jonker, W., Legadi, J., Kool, J., & Ballesteros-Gómez, A. (2017). Bisphenol A alternatives in thermal paper from the Netherlands, Spain, Sweden and Norway. Screening and potential toxicity. *Science of The Total Environment*, 601, 210-221.
- Bogdanov, Y. F., & Kolomiets, O. L. (2007). Synaptonemal complex as an indicator of the dynamics of meiosis and chromosome variation. Moscow, KMK, 358.
- Bousoumah, R., Leso, V., Iavicoli, I., Huuskonen, P., Viegas, S., Porras, S. P., ... & Ndaw, S. (2021). Biomonitoring of occupational exposure to bisphenol A, bisphenol S and bisphenol F: A systematic review. *Science of the Total Environment*, 783, 146905.

- Bolcun-Filas, E., & Schimenti, J. C. (2012). Genetics of meiosis and recombination in mice. *International review of cell and molecular biology*, 298, 179-227.
- Candra, H., Yuwono, M., Chai, R., Handojoseno, A., Elamvazuthi, I., Nguyen, H. T., & Su, S. (2015, August). Investigation of window size in classification of EEG-emotion signal with wavelet entropy and support vector machine. *In 2015 37th Annual international conference of the IEEE Engineering in Medicine and Biology Society (EMBC)* (pp. 7250-7253). IEEE.
- Carlo Di Anna, Travia Gabriele & Felici De Massimo., (2000), The Meiotic Specific Synaptonemal Complex Protein SCP3 Is Expressesd by Female and Male Primordial Germcell of The Mouse Embrio, *Short Contribution*, 241-244
- Carlisle, R. P. (Ed.). (2009). *Encyclopedia of play in today's society* (Vol. 1). Sage.
- Cao X-L, Corriveau J, Popovic S. (2009) Levels of bisphenol A in canned soft drink products in Canadian markets. *J Agric Food Chem*. 57:1307–11.
- Cao, Y., Yao, J., Knudsen, T. Š., Pang, W., Zhu, J., Liu, B., ... & Su, J. (2023). Radical chemistry, degradation mechanism and toxicity evolution of BPA in the UV/chlorine and UV/H₂O₂. *Chemosphere*, 312, 137169.
- Cunha S, Fernandes J. (2013). Assessment of bisphenol A and bisphenol B in canned vegetables and fruits by gas chromatography–mass spectrometry after QuEChERS and dispersive liquid–liquid microextraction. *Food Control*. 33:549–55
- Chung, L. Y., Soo, W. K., Chan, K. Y., Mustafa, M. R., Gosh, S. H., & Imiyabir Z. (2009). *Lipoxygenase inhibiting activity of some Malaysian plants. Pharmaceutical Biology*.
- Cimmino, I., Fiory, F., Perruolo, G., Miele, C., Beguinot, F., Formisano, P., & Oriente, F. (2020). Potential mechanisms of bisphenol A (BPA) contributing to human disease. *International journal of molecular sciences*, 21(16), 5761.
- Dewi, E. R. S. (2011). Pengaruh pemberian ekstrak buah mengkudu terhadap histopatologi testis tikus putih setelah menghirup asap rokok. *Bioma*, 1(2), 113-122.
- Dueñas-Moreno, J., Mora, A., Kumar, M., Meng, X. Z., & Mahlknecht, J. (2023). Worldwide risk assessment of phthalates and bisphenol A in humans: The need for updating guidelines. *Environment International*, 108294.
- Encephala, R. N. (2018). Uji Toksisitas Minyak Goreng Bekas yang Terkontaminasi Plastik Terhadap Kadar Mda (Malondialdehyde) dan Histopatologi Organ Jejunum pada Hewan Coba Tikus (*Rattus Norvegicus*) [Toxicity Test of Frying Oil Which is Contaminated by Plastic Towards MDA (Malondialdehyde) Levels and Histopathology of Jejunum on Rats (*Rattus novergicus*)]/[Undergraduated Thesis] Kedokteran Hewan. Universitas Brawijaya, 67.

- Erler, (2010). Bisphenol A Exposure: Human Risk and Health Policy. *Journal of Pediatric Nursing*. Vol. 25: 400-407.
- Fawcett, Pizzorusso, T., Medini, P., Berardi, N., Chierzi, S., J. W., & Maffei, L. (2002). Reactivation of ocular dominance plasticity in the adult visual cortex. *Science*, 298(5596), 1248-1251.
- Fitri, R., Ariesandi, D., & Jadmiko, P. (2019). Religiusitas dan Persepsi Pengetahuan Lingkungan terhadap Pembelian Produk Ramah Lingkungan. *Manajemen dan Kewirausahaan*.
- Geens, T., Aerts, D., Berthot, C., Bourguignon, J. P., Goeyens, L., Lecomte, P., ... & Covaci, A. (2012). A review of dietary and non-dietary exposure to bisphenol-A. *Food and chemical toxicology*, 50(10), 3725-3740.
- Geisinger, A., & Benavente, R. (2017). Mutations in genes coding for synaptonemal complex proteins and their impact on human fertility. *Cytogenetic and genome research*, 150(2), 77-85.
- Gunadi, R. A. A., Parlindungan, D. P., Santi, A. U. P., Aswir, A., & Aburahman, A. (2021, February). Bahaya plastik bagi kesehatan dan lingkungan. In *Prosiding Seminar Nasional Pengabdian Masyarakat LPPM UMJ* (Vol. 1, No. 1).
- Goud, P. T., Goud, A. P., Qian, C., Laverge, H., Van der Elst, J., De Sutter, P., & Dhont, M. (1998). In-vitro maturation of human germinal vesicle stage oocytes: role of cumulus cells and epidermal growth factor in the culture medium. *Human reproduction (Oxford, England)*, 13(6), 1638-1644.
- Govarts, E., Gilles, L., Martin, L. R., Santonen, T., Apel, P., Alvito, P., ... & Schoeters, G. (2023). Harmonized human biomonitoring in European children, teenagers and adults: EU-wide exposure data of 11 chemical substance groups from the HBM4EU Aligned Studies (2014–2021). *International Journal of Hygiene and Environmental Health*, 249, 114119.
- Harbone, J. B. (1987). Metode Fitokimia: Penuntun Cara Modern Menganalisa Tumbuhan. ITB Press. Bandung.
- Henri, F., & Dewi, N. A. (2023). GENETIKA DAN BIOLOGI REPRODUKSI. Henri, F., & Dewi, N. A. (2023). GENETIKA DAN BIOLOGI REPRODUKSI.
- Hughes, I. A., & Acerini, C. L. (2008). Factors controlling testis descent. *European Journal of Endocrinology*, 159 (Supplement_1), S75-S82.
- Jin, H., Zhu, J., Chen, Z., Hong, Y., & Cai, Z. (2018). Occurrence and partitioning of bisphenol analogues in adults' blood from China. *Environmental science & technology*, 52(2), 812-820.
- Liu Yi, Liu Min, Qi Zhang, Guanghui Chen & Hui Wang. (2020). Selection and identification of the panel of reference genes for quantitative real-time PCR normalization in rat testis at different development periods. *Toxicology and Applied Pharmacology*. Vol 406

- Kamel, A. H., Foad, M. A., & Moussa, H. M. (2018). The adverse effects of bisphenol A on male albino rats. *The Journal of Basic and Applied Zoology*, 79: 1-9.
- Kuntana, Yasmi.P dan Madihah (2013). Penuntun Praktikum Perkembangan Hewan. Biologi FMIPA Universitas Padjadjaran
- Krinke, G. J. (2000). *The laboratory rat*. Elsevier.
- Rog, O., Köhler, S., & Dernburg, A. F. (2017). The synaptonemal complex has liquid crystalline properties and spatially regulates meiotic recombination factors. *Elife*, 6, e21455.
- Laely, F., et al. (2017). Aktivitas Antioksidan, Antiinflamasi dan Antimikroba Ekstrak Daun Bosibosi (*Timonius flavescens*). *Jurnal Farmasi Higea*, 9(2), 1-8.
- Lammers, J. H. M., Offenberg, H. H., Van Aalderen, M., Vink, A. C. G., Dietrich, A. J. J., & Heyting, C. (1994). The gene encoding a major component of the lateral elements of synaptonemal complexes of the rat is related to X-linked lymphocyte-regulated genes. *Molecular and cellular biology*.
- Lehmle, H. J., Liu, B., Gadogbe, M., & Bao, W. (2018). Exposure to bisphenol A, bisphenol F, and bisphenol S in US adults and children: the national health and nutrition examination survey 2013–2014. *ACS omega*, 3(6), 6523-6532.
- Li-min, W. Y. J. W. (2017). Novel expression of spermatogenesis-associated protein 3 gene in mouse spermatogenic cells and its influence upon apoptosis and autophagy in HEK 293T cells. *Acta Anatomica Sinica*, 49(1), 41.
- Liu, X., Miao, M., Zhou, Z., Gao, E., Chen, J., Wang, J., ... & Li, D. K. (2015). Exposure to bisphenol-A and reproductive hormones among male adults. *Environmental toxicology and pharmacology*, 39(2), 934-941.
- Liyas, Sujatha, K., & Chitra, K., M. (2007). Spectrophotometric methods for the determination of Carvediol in bulk and its dosage form. *Int J Chem Sci*, 5(2), 484-8.
- Llano, E., & Pendás, A. M. (2023). Synaptonemal complex in human biology and disease. *Cells*, 12(13), 1718.
- Loidl, J. (2006). S. pombe linear elements: the modest cousins of synaptonemal complexes. *Chromosoma*, 115(3), 260-271.
- Manzoor, A., Dar, A. H., Pandey, V. K., Shams, R., Khan, S., Panesar, P. S., ... & Khan, S. A. (2022). Recent insights into polysaccharide-based hydrogels and their potential applications in food sector: A review. *International Journal of Biological Macromolecules*, 213, 987-1006.
- Malole, M. B. M., & Pramono, C. S. U. (1989). Penggunaan hewan-hewan percobaan di laboratorium. Institut pertanian Bogor: Jakarta.

- Matuszczak, E., Komarowska, M. D., Debek, W., & Hermanowicz, A. (2019). The impact of bisphenol A on fertility, reproductive system, and development: a review of the literature. *International journal of endocrinology*, 2019(1), 4068717.
- Marec, F., & Traut, W. (1993). Synaptonemal complexes in female and male meiotic prophase of *Ephestia kuehniella* (Lepidoptera). *Heredity*, 71(4), 394-404.
- Munaya Nila, Brahmadhi Ageng, Handoyo Budi Susanto. (2018). Efek Stres Puasa Terhadap Ketebalan Epitel dan Diameter Tuulus Semiferus *Rattus norvegicus*. *Jurnal Kedokteran dan Kesehatan*. Vol 18. Hal 1-7.
- Munguia-Lopez E, Gerardo-Lugo S, Peralta E, Bolumen S, Soto-Valdez H. (2005) Migration of bisphenol A (BPA) from can coatings into a fatty-food simulant and tuna fish. *Food Addit Contam*. 22:892–8.
- Nakamura D, Yanagiba Y, Duan Z, Ito Y, Okamura A, Asaeda N, et al. 2010. Bisphenol A may cause testosterone reduction by adversely affecting both testis and pituitary system similar to estradiol. *Toxicol Lett*. 2010;194:16-25.
- Napitupulu, A., (2015). Identifikasi Senyawa Metabolit Sekunder Dan Uji Aktifitas Antioksidan Ekstrak Metanol Daun Bosibosi (*Timonius flavescens* (jacq). [Skripsi, Universitas Negeri Medan].
- Nafisa, Arifa & Sebastian, Alfino & Wijayanti, Putri & Patigu, Rosy & Purwestri, Yekti Asih. (2022). Optimasi Primer yang Menargetkan Gen OsAP2, OsERF3 dan OsEREBP2 Menggunakan qPCR. *Bioeksperimen: Jurnal Penelitian Biologi*. 8. 8-19. 10.23917/bioeksperimen.v8i1.15800.
- Niu Y, Zhang J, Wu Y, Shao B. (2012). Analysis of bisphenol A and alkylphenols in cereals by automated on-line solid-phase extraction and liquid chromatography tandem mass spectrometry. *J Agric Food Chem*. 60:6116–22.
- Offenberg, H. H., Schalk, J. A., Meuwissen, R. L., Van Aalderen, M., Kester, H. A., Dietrich, A. J., & Heyting, C. (1998). SCP2: a major protein component of the axial elements of synaptonemal complexes of the rat. *Nucleic acids research*, 26(11), 2572-2579.
- O'Mahony J, Moloney M, McCormack M, Nicholls IA, Mizaikoff B, Danaher M. (2013). Design and implementation of an imprinted material for the extraction of the endocrine disruptor bisphenol A from milk. *J Chromatog B*. 931:164–9.
- Perdana, W. Y., & Jacobus, D. J. (2016). Bisphenol A (BPA) adalah Endocrine Disrupture Chemicals (EDC) yang berperan sebagai agen diabetogenik. *CDK*-244, 43(9), 706-711.
- Putri, T. A. (2019). PENGARUH PEMBERIAN BISPENOL-A (BPA) TERHADAP JUMLAH SPERMATOZOA PADA *Rattus norvegicus* GALUR WISTAR ALBINO. *JURNAL KESEHATAN PERINTIS (Perintis's Health Journal)*, 6(1), 9-13.

- Rao Xiayu, Huang Xuelin, Zhou Zhicheng & Lin Xiu. (2013). An improvement of the $2^{-\Delta\Delta CT}$ method for quantitative real-time polymerase chain reaction data analysis. *Biostat Bioinforma Biomath*. Vol 3 (3) : 71–85.
- Saxena, S., Funk, M., & Chisholm, D. (2013). World health assembly adopts comprehensive mental health action plan 2013–2020. *The Lancet*, 381(9882), 1970-1971.
- Scherthan, H., Jerratsch, M., Li, B., Smith, S., Hultén, M., Lock, T., & de Lange, T. (2000). Mammalian meiotic telomeres: protein composition and redistribution in relation to nuclear pores. *Molecular biology of the cell*, 11(12), 4189-4203.
- Schramm, S., Fraune, J., Naumann, R., Hernandez-Hernandez, A., Höög, C., Cooke, H. J., ... & Benavente, R. (2011). A novel mouse synaptonemal complex protein is essential for loading of central element proteins, recombination, and fertility. *PLoS genetics*, 7(5), e1002088.
- Senger, B., Schaaf, P., Corti, D. S., Bowles, R., Voegel, J. C., & Reiss, H. (1999). A molecular theory of the homogeneous nucleation rate. I. Formulation and fundamental issues. *The Journal of chemical physics*, 110(13), 6421-6437.
- Schucker katharina. (2018). Superresolution Imaging Of The Synaptonemal Complex. *Methods In Cell Biology*, 335-346
- Sherwood, J., Constantinou, A., Moity, L., McElroy, C. R., Farmer, T. J., Duncan, T., ... & Clark, J. H. (2014). Dihydrolevoglucosenone (Cyrene) as a bio-based alternative for dipolar aprotic solvents. *Chemical communications*, 50(68), 9650-9652.
- Silitonga, M., Sinaga, E., & Silitonga, P. M. (2021). Pengaruh ekstrak etanol *Plectranthus amboinicus* Lour Spreng terhadap berat badan dan berat relatif organ tikus yang diinduksi kanker kulit dengan DMBA. *Jurnal Biosains Unimed*, 7(2), 59-65.
- Sipahutar, H., Gaol, A., & Silalahi, A. (2007). Akselearsi pencapaian pubertas mencit setelah pendedahan xenoestrogen Bisphenol A (BPA) selama dua generasi berturut-turut. *J Sains MIPA*, 89(2), 95-105.
- Smith, J.B. dan S. Mangkoewidjojo. (1998). Pemeliharaan, pembiakan Dan Penggunaan Hewan Percobaan Di Daerah Tropis. UI Press. Jakarta. Hlm. 37
- Susiarjo, M., Hassold, T. J., Freeman, E., & Hunt, P. A. (2007). Bisphenol A exposure in utero disrupts early oogenesis in the mouse. *PLoS genetics*, 3(1), e5.
- Suyasa, I. N. G. (2018). Faktor-Faktor Yang Berhubungan Dengan Keberadaan Bahan Berbahaya Bisphenol A (BPA) Yang Terkandung Dalam Kontainer Plastik Makanan dan Minuman. *JURNAL SKALA HUSADA: THE JOURNAL OF HEALTH*, 15(1).

- Sonnenschein, C., & Soto, A. M. (1998). An updated review of environmental estrogen and androgen mimics and antagonists. *The Journal of steroid biochemistry and molecular biology*, 65(1-6), 143-150.
- Vandenberg, L. N., Hauser, R., Marcus, M., Olea, N., & Welshons, W. V. (2007). Human exposure to bisphenol A (BPA). *Reproductive toxicology*, 24(2), 139-177.
- Von Diezmann, L., Bristow, C., & Rog, O. (2024). Diffusion within the synaptonemal complex can account for signal transduction along meiotic chromosomes. *Molecular Biology of the Cell*, mbc-E24.
- Wang, Y., Wu, Y., & Zhang, S. (2022). Impact of bisphenol-A on the spliceosome and meiosis of sperm in the testis of adolescent mice. *BMC Veterinary Research*, 18(1), 278.
- Westergaard, M., & von Wettstein, D. (1970). The nucleolar cycle in an ascomycete. *Comptes-rendus des Travaux du Laboratoire Carlsberg*, 37(10), 195-237.
- Wolfensohn, S., & Lloyd, M. (2013). *Handbook of laboratory animal management and welfare*.
- Xu, X., Aprelikova, O., Moens, P., Deng, C. X., & Furth, P. A. (2003). Impaired meiotic DNA-damage repair and lack of crossing-over during spermatogenesis in BRCA1 full-length isoform deficient mice.
- Yin, L., Hu, C., & Yu, X. J. (2023). High-content analysis of testicular toxicity of BPA and its selected analogs in mouse spermatogonial, Sertoli cells, and Leydig cells revealed BPAF induced unique multinucleation phenotype associated with the increased DNA synthesis. *Toxicology in Vitro*, 89, 105589
- Yuan, L., Pelttari, J., Brundell, E., Björkroth, B., Zhao, J., Liu, J. G., ... & Höög, C. (1998). The synaptonemal complex protein SCP3 can form multistranded, cross-striated fibers in vivo. *The Journal of cell biology*, 142(2), 331-339.
- Yoshida T, Horie M, Hoshino Y, Nakazawa H, Horie M, Nakazawa H. (2001). Determination of bisphenol A in canned vegetables and fruit by high performance liquid chromatography. *Food Addit Contam.* 18:69–75.
- Zhang, W., Zhou, M., Zhu, H., Tian, Y., Wang, K., Wei, J., ... & Wu, D. (2011). Tribological properties of oleic acid-modified graphene as lubricant oil additives. *Journal of Physics D: Applied Physics*, 44(20), 205303.
- Zhu, Z., Wang, J., Cao, Q., Liu, S., Wei, W., Yang, H., & Zhang, Y. (2022). Long-term BPA exposure leads to bone malformation and abnormal expression of MAPK/Wnt/FoxO signaling pathway genes in zebrafish offspring. *Ecotoxicology and Environmental Safety*, 245, 114082.