

REFERENCES

- Alberts B, Johnson A, Lewis J, Raff M, Roberts K, Walter P. 2002. *Molecular Biology of the Cell*. 4th ed. Garland Science, New York. <https://www.ncbi.nlm.nih.gov/books/NBK26873/>. (21/12/2017).
- Adu D, Emery P, Madalo M. 2012. *Rheumatology and the Kidney*. 2nd ed. Oxford University Press Oxford, Oxford pg. 13.
- Ames BN, Mccann J, Yamasaki E. 1975. Methods for detecting carcinogens and mutagens with the Salmonella/mammalian-microsome mutagenicity test. *Mutation Research* 31(6): 347-364.
- Andronescu E, Grumezescu AM. 2017. *Nanostructures for Oral Medicine*. Elsevier, Amsterdam pg. 90, 92.
- Azhar DA, Syed S, Luqman M, Ali AA. 2013. Evaluation of methyl methacrylate monomer cytotoxicity in dental lab technicians using buccal micronucleus cytome assay. *Dental Materials Journal* 32(3): 519–521.
- Bagchi D, Swaroop A. 2016. *Food Toxicology*. CRC Press, Boca Raton pg. 36.
- Barve K, Dighe A. 2016. *The Chemistry and Applications of Sustainable Natural Hair Products*. Springer, Basel pg. 26.
- Bauer JH, Helfand SL. 2006. New tricks of an old molecule: lifespan regulation by p53. *Aging Cell*. 5(5): 437–440.
- Berkovitz BKB, Holland GR, Moxham BJ. 2009. *Oral Anatomy, Histology and Embryology*. 4th ed. Mosby Elsevier, St. Louis pg. 223, 233.
- Bindu L, Balaram P, Mathew A, Remani P, Bhattathiri VN, Nair MK. 2003. Radiation-induced changes in oral carcinoma cells – a multiparametric evaluation. *Cytopathology* 14: 287–293.
- Bhat A, Vijaya C, Padmasri R. 2016. Apoptosis and micronucleus in cervical pap smears: promising assays to increase the diagnostic value of the test. *Annals of Pathology and Laboratory Medicine* 3(4): A320-328.
- Bolt HM, Golka K. 2007. The debate on carcinogenicity of permanent hair dyes: new insights. *Critical Reviews in Toxicology* 37(6): 521-36.
- Borges HL, Linden R, Wang JYJ. 2008. DNA damage-induced cell death. *Cell Research* 18(1): 17-26.

Bureau of Labor Statistics. 2015. *Occupational outlook handbook 2016-.17*. U.S. Government Printing Office: Washington D.C. <https://www.bls.gov/ooh/personal-care-and-service/barbers-hairdressers-and-cosmetologists.htm>. (05/10/2017).

Carlin V, Fracalossi AC, Miranda SR, Noguti J, Pereira da Silva VH, Oshima CT, Ribeiro DA. 2013. Chromosome breakage and cellular death are induced in oral epithelial cells of hairdressers: a preliminary study. *Toxicology Mechanism and Methods* 23(2): 108-112.

Chiego DJ. 2014. *Essentials of Oral Histology and Embryology: A Clinical Approach*. 4th ed. Elsevier Health Sciences pg. 172.

Cho JA, Oh E, Lee E, Sul D. 2003. Effects of hair dyeing on DNA damage in human lymphocytes. *Journal of Occupational Health* 45(6):376-381.

Colditz GA. 2007. *Encyclopedia of Cancer and Society*. Volume 1. SAGE, London pg. 414.

CTI Reviews. 2016. *Wheater's Functional Histology, A Text and Colour Atlas*. Cram101 Textbook Reviews. <https://books.google.co.id/books?id=0S7XAwAAQBAJ&lpg=PP1&dq=CTI%20Reviews%20wheaters&pg=PP1#v=onepage&q=CTI%20Reviews%20wheaters&f=false>. (21/12/2017).

Dartsch PC, Wolburg H, Al Makdessi S, Schiek D, Sweidan H, Kimmel R, Schmahl FW. 2000. Sodium monochloroacetate causes cytotoxic effects, an increased lactate and pyruvate level and induces ultra structural and cytoskeletal alterations in cultured kidney and liver epithelial cells. *Human and Experimental Toxicology* 19(2): 138-148.

Dasgupta A. 2015. *Alcohol and Its Biomarkers: Clinical Aspects and Laboratory Determination*. Elsevier, San Diego pg. 91.

de Lima RC, Ferraz P, Chaiben CL, Fernandes Â, Grégio AMT, Machado MAN, Azevedo-Alanis LRA, de Lima AAS. 2016. Genotoxic and Cytotoxic Potential of Smoke Crack Cocaine on the Epithelium of the Human Oral Mucosa. *Journal Dentistry Indonesia* 23(3): 33-39.

Dias MFRG. 2015. Hair Cosmetics: An Overview. *International Journal of Trichology* 7(1): 2-15.

Dowd FJ. 2007. *Mosby's Review for the NBDE*. Elsevier Health Sciences, Missouri pg. 118.

- Duong A, Steinmaus C, McHale CM, Vaughan CP, Zhang L. 2011. Reproductive and developmental toxicity of formaldehyde: a systematic review. *Mutation Research* 728(3): 118-138.
- Dusinská M, Collins AR. 2008. The comet assay in human biomonitoring: gene–environment interactions. *Mutagenesis* 23(3): 191-205.
- Elgamel AA, Ahmed NO. 2013. Complications and management of hair dye poisoning in Khartoum. *Sudan Medical Monitor* 8(3): 146-152.
- Farokhi A, Tayebipoor M, Koohpeima F, Mokhtari MJ. 2017. Lead and Cancer. *Journal of Cellular Immunotherapy* 3(1): 2.
- Ferreira AP. 2013. An assessment of occupational health risks in female hairdressers forefront to xenobiotics. *Revista Brasileira de Farmácia* 94(3): 190 – 198.
- Fry TL, Dunbar MR. 2007. A review of biomarkers used for wildlife damage and disease management. *Proceedings of the Wildlife Damage Management Conference* 12:217–222.
- Fry R. 2015. *Systems Biology in Toxicology and Environmental Health*. Academic Press, Oxford 200.
- Gabriel J. 2010. *The Green Beauty Guide: Your Essential Resource to Organic and Natural Skin Care, Hair Care, Makeup, and Fragrances*. Health Communications. Inc., Florida pg. 7.
- Galiotte RAP, Kohler P, Mussi G, Gattas GJF. 2008. Assessment of Occupational Genotoxic Risk among Brazilian Hairdressers. *The Annals of Occupational Hygiene* 52(7): 645–651.
- Gan HF, Meng XS, Song CH, Li BS. 2003. A Survey on Health Effects in a Human Population Exposed to Permanent-Waving Solution Containing Thioglycolic Acid. *Journal of Occupational Health* 45(6): 400–404.
- Golka K, Wiese A, Assennato G, Bolt H. 2004. Occupational exposure and urological cancer. *World. Journal of Urology* 21(6):382-391.
- Goodman CC, Fuller KS. 2016. *Pathology for the Physical Therapist Assistant*. Elsevier Health Sciences, Missouri pg. 51.
- Green M, Palladino L. 2007. *Professional Hairdressing: The Official Guide to S/NVQ Level 3*. Cengage Learning EMEA, London pg. 89, 124, 136, 139, 161, 222, 281.

- Greenberg MI. 2003. *Occupational, Industrial, and Environmental Toxicology*. Elsevier Health Sciences, Philadelphia pg. 192.
- Handel, G. 2005. *Cutting Your Family's Hair*. Sterling Publishing Co. Inc. New York pg. 21.
- Hand AR, Frank ME. 2015. *Fundamentals of Oral Histology and Physiology*. John Wiley & Sons, Iowa pg. 5, 173.
- Heikkinen S, Pitkaniemi J, Sarkeala T, Malila N, Koskenvuo M. 2015. Does Hair Dye Use Increase the Risk of Breast Cancer? A Population-Based Case-Control Study of Finnish Women. *Public Library of Science ONE* 10(8): 1-14.
- Holland N, Bolognesi C, Kirsch-Volders M, Bonassi S, Zeiger E, Knasmueller S, Fenech M. 2008. The micronucleus assay in human buccal cells as a tool for biomonitoring DNA damage: the HUMN project perspective on current status and knowledge gaps. *Mutation Research* 659(1-2): 93-108.
- Hughes P, Ferrett E. 2011. *Introduction to Health and Safety at Work: The Handbook for the NEBOSH National General Certificate*. Elsevier, Oxford pg. 355.
- Hughes CL, Waters MD. 2016. *Translational Toxicology: Defining a New Therapeutic Discipline*. Humana Press. <https://books.google.co.id>. (23/09/2017).
- International Agency for Research on Cancer (IARC). 2010. *Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 99: Some Aromatic Amines, Organic Dyes, and Related Exposures*. World Health Organization. <http://monographs.iarc.fr/ENG/Monographs/vol99/index.php>. (05/10/2017).
- Iwata H, Shimada K. 2012. *Formulas, Ingredients and Production of Cosmetics: Technology of Skin- and Hair-Care Products in Japan*. Springer Science & Business Media, Tokyo pg. 10.
- Jois HS, Kale AD, Mohan Kumar KP. 2010. Micronucleus as Potential Biomarker of Oral Carcinogenesis. *Indian Journal of Dental Advancements* 2(2): 197-202.
- Kesidi S, Maloth KN, Reddy KVK, Geetha P. 2017. Genotoxic and cytotoxic biomonitoring in patients exposed to full mouth radiographs – A radiological and cytological study. *Journal of Oral and Maxillofacial Radiology* 5(1): 1-6.

Klipp E, Liebermeister W, Wierling C, Kowald A, Lehrach H, Herwig R. 2013. *Systems Biology*. John Wiley & Sons, Weiheim 135.

Ko AH, Dollinger M, Rosenbaum EH. 2008. *Everyone's Guide to Cancer Therapy: How Cancer Is Diagnosed, Treated, and Managed Day to Day Revised*. 5th ed. Andrews McMeel Publishing, Kansas City pg. 3.

Koh HY, Jonarta AL, Tandelilin RTC. 2015. Micronucleus frequency in exfoliated buccal cells from hairdresser who expose to hair products. *Dental Journal (Majalah Kedokteran Gigi)* 48(2): 74-79.

Kumar S, Krenacs L, Medeiros J, Kojo SJ, Elenitoba-Johnson MD, Greiner TC, Sorbara L, Kingma DW, Raffeld M, Jaffe ES. 1998. Subcutaneous panniculitic T-cell lymphoma is a tumor of cytotoxic T lymphocytes. *Human Pathology* 29(4): 397-403.

Kumar GS. 2014. *Orban's Oral Histology & Embryology*. Elsevier Health Sciences, Chennai pg. 244, 255.

Kumar J, Teoh SL, Das S, Mahakknaukrah P. 2017. Oxidative Stress in Oral Diseases: Understanding Its Relation with Other Systemic Diseases. *Frontiers in Physiology* 8(693): 1-15.

Lamba AB, Ward MH, Weeks JL, Dosemeci M. 2001. Cancer mortality patterns among hairdressers and barbers in 24 US states, 1984 to 1995. *Journal of Occupational and Environmental Medicine* 43(3): 250-258.

Lind ML, Boman A, Sollenberg J, Johnsson S, Hagelthorn G, Meding B. 2005. Occupational dermal exposure to permanent hair dyes among hairdressers. *The Annals of Occupational Hygiene* 49(6): 473-480.

Lister M. 2004. *Men's Hairdressing: Traditional and Modern Barbering*. 2nd ed. Thomson Learning, London pg. 122.

Maiti S, Sinha SS, Singh M. 2015. Hair Dye-DNA Interaction: Plausible Cause of Mutation. *Cosmetics* 2(4): 313-321.

Martins RA, Gomes GA, Aguiar O Jr, Ribeiro DA. 2009. Biomonitoring of oral epithelial cells in petrol station attendants: comparison between buccal mucosa and lateral border of the tongue. *Environment International* 35(7):1062–1065.

Mandiracioglu A, Kose S, Gozaydin M, Turken M, Kuzucu L. 2009. Occupational health risks of barbers and coiffeurs in Izmir. *Indian Journal of Occupational and Environmental Medicine* 13(2): 92-96.

- Mendes A, Madureira J, Neves P, Carvalhais C, Laffon B, Teixeira JP. 2011. Chemical exposure and occupational symptoms among Portuguese hairdressers. *Journal of Toxicology and Environmental Health. Part A*, 74(15-16): 993-1000.
- Metgud R, Khajuria N, Patel S, Lerra S. 2015. Nuclear anomalies in exfoliated buccal epithelial cells of petrol station attendants in Udaipur, Rajasthan. *Journal of Cancer Research and Therapeutics* 11(4): 868-873.
- Motgi AA, Chavan MS, Diwan NN, Chowdhery A, Channe PP, Shete MV. 2014. Assessment of cytogenic damage in the form of micronuclei in oral epithelial cells in patients using smokeless and smoked form of tobacco and non-tobacco users and its relevance for oral cancer. *Journal of Cancer Research and Therapeutics* 10(1): 165-170.
- Mounier-Geyssant E, Oury V, Mouchot L, Paris C, Zmirou-Navier D. 2006. Environmental Health: A Global Exposure of hairdressing apprentices to airborne hazardous substances. *Environmental Health* 5(23): 1–8.
- Nanci A. 2017. *Ten Cate's Oral Histology*. 9th ed. Elsevier, St. Louis pg. 3, 264, 266, 268, 278-279, 282.
- Naz RK. 2004. *Endocrine Disruptors: Effects on Male and Female Reproductive Systems*. 2nd Ed. CRC Press, Boca Raton 88.
- Notoatmodjo S. 2010. *Metodologi Penelitian Kesehatan*. PT. Rineka Cipta, Jakarta.
- Oehmichen M, Auer RN, König HG. 2005. *Forensic Neuropathology and Associated Neurology*. Springer Science & Business Media, Heidelberg pg. 62.
- Pak VM, Powers M, Liu J. 2013. Occupational Chemical Exposures among Cosmetologists. *Workplace Health & Safety* 61(12): 522–529.
- Pukkala E, Nokso-Koivisto P, Roponen P. 1992. Changing cancer risk pattern among Finnish hairdressers. *International Archives of Occupational and Environmental Health* 64(1):39-42.
- Rickes LN, Alvarengo MC, Souza TM, Garcias GI, Martino-Roth MG. 2010. Increased micronucleus frequency in exfoliated cells of the buccal mucosa in hairdressers. *Genetics and Molecular Research* 9(3): 1921-1928.
- Robbins CR. 2013. *Chemical and Physical Behavior of Human Hair*. Springer Science & Business Media, Piscataway pg. 154.

Ronda E, Hollund BE, Moen BE. 2008. Airborne exposure to chemical substances in hairdresser salons. *Environmental Monitoring and Assessment* 153(1-4): 83-93.

Sagari SG, Babannavar R, Lohra A, Kodgi A, Bapure S, Rao Y, Malghan M. 2014. Micronuclei Frequencies and Nuclear Abnormalities in Oral Exfoliated Cells of Nuclear Power Plant Workers, *Journal of Clinical and Diagnostic Research* 8(12): ZC15–ZC17.

Sahay K, Mehendiratta M, Rehani S, Kumra M, Sharma R, Kardam P. 2013. Cytological artifacts masquerading interpretation. *Journal of Cytology* 30(4): 241-246.

Sampathkumar K, Yesudas S. 2009. Hair dye poisoning and the developing world. *Journal of Emergencies, Trauma and Shock* 2(2): 129-131.

Sankari SL, Babu NA, Rajesh E, Kasthuri M. 2015. Apoptosis in immune-mediated diseases. *Journal of Pharmacy & BioAllied Sciences* 7(Suppl 1): S200-S202.

Schultz DR, Harrington WJ Jr. 2003. Apoptosis: programmed cell death at a molecular level. *Seminars in Arthritis and Rheumatism* 32(6): 345-369.

Sharma N, Gupta N, Gupta R. 2012. Ventilatory impairment in petrol pump workers. *JK Science* 14(1): 5-8.

Stellman JM. 1998. *Encyclopaedia of Occupational Health and Safety*. Volume 3. International Labour Organization, Geneva pg. 100.6.

Squier C, Brogden KA. 2011. *Human Oral Mucosa Development, Structure, & Function*. Wiley-Blackwell, Iowa pg. 3.

Squier CA, Kremer MJ. 2001. Biology of Oral Mucosa and Esophagus. *Journal of the National Cancer Institute Monographs* 2001(29): 7-15.

Swanson GM, Burns PB. 1997. Cancers of the salivary gland: workplace risks among women and men. *Annals of Epidemiology* 7(6): 369-374.

Takkouche B, Regueira-Méndez C, Montes-Martínez A. 2009. Risk of cancer among hairdressers and related workers: a meta-analysis. *International Journal of Epidemiology* 38(6): 1512–1531.

Tanaka T, Ishigamori R. 2011. Understanding Carcinogenesis for Fighting Oral Cancer. *Journal of Oncology* 2011: 10.

- The Editors of Prevention, Bazilian W. 2016. *Eat Clean, Stay Lean: The Diet: Real Foods for Real Weight Loss*. Rodale, New York pg.100.
- Tobin DJ. 2005. *Hair in Toxicology: An Important Bio-monitor*. Royal Society of Chemistry, Gateshead pg. 254, 291, 298-299.
- Toedt J, Koza D, Cleef-Toedt KVC. 2005. *Chemical Composition of Everyday Products*. Greenwood Press, Westport pg. 36.
- Tolbert PE, Shy CM, Allen JW. 1991. Micronuclei and other nuclear anomalies in buccal smears: a field test in snuff users. *American Journal of Epidemiology* 134(8): 840-850.
- Torres-Bugarín O, Zavala-Cerna MG, Nava A, Flores-García A, Ramos-Ibarra ML. 2014. Potential Uses, Limitations, and Basic Procedures of Micronuclei and Nuclear Abnormalities in Buccal Cells. *Disease Markers* 2014: 1-13.
- Verma Y, Rana SV. 2001. Biological Monitoring of exposure to benzene in petrol pump workers and dry cleaner. *Industrial Health* 39(4): 330-333.
- Vincent YYC, Thorson A. 2010. A Legal Guide to Doing Business in the AsiaPacific. 1st ed. American Bar Association, Chicago pg. 150.
- Wang JY, Cho SK. 2004. Coordination of repair, checkpoint, and cell death responses to DNA damage. *Advances in Protein Chemistry* 69:101-135.
- Waxman MF. 1996. *Hazardous Waste Site Operations: A Training Manual for Site Professionals*. John Wiley & Sons, New York pg. 75.
- Wong RH, Chien HL, Lin WH, Wang YC, Cho CY. 2005. Correlation between chemical-safety knowledge and personal attitudes among Taiwanese hairdressing students. *American Journal of Industrial Medicine* 47(1): 45-53.
- Wong RSY. 2011. Apoptosis in cancer: from pathogenesis to treatment. *Journal of Experimental & Clinical Cancer Research* 30(1): 87.
- World Health Organization. 1993. International Programme on Chemical Safety: Biomarkers and risk assessment: concepts and principles. World Health Organization.
<http://www.inchem.org/documents/ehc/ehc/ehc155.htm#SectionNumber:1.2>. (05/10/2017).
- Wultsch G, Nersesyan A, Kundi M, Wagner KH, Ferk F, Jakse R, Knasmueller S. 2015. Impact of exposure to wood dust on genotoxicity and cytotoxicity in exfoliated buccal and nasal cells. *Mutagenesis* 30(5): 701-709.

Yadav AS, Jaggi S. 2015. Buccal Micronucleus Cytome Assay- A Biomarker of Genotoxicity. *Journal of Molecular Biomarkers and Diagnosis* 6(3): 1-6.

Zerin T, Kim JS, Gil HW, Song HY, Hong SY. 2015. Effects of formaldehyde on mitochondrial dysfunction and apoptosis in SK-N-SH neuroblastoma cells. *Cell Biology and Toxicology* 31(6): 261-272.