

**DAFTAR PUSTAKA**

- Agre P, MacKinnon R. 2003. The Nobel Prize in Chemistry. Popular Information for The Public. English-Swedish. 8 October 2003.
- Akhadi M, 2010. Dasar-dasar Proteksi Radiasi. Cetakan Pertama. Penerbit Rineka Cipta. Jakarta.
- Akhadi M, 2011. Pengetahuan Dasar untuk Membaca dan Memanfaatkan Peta Nuklida. Pusat Teknologi Keselamatan dan Metrologi Radiasi-BATAN. Jakarta. Available from file:///C:/Users/OWNER/Downloads/84-134-1-SM.pdf. Accessed February 14, 2016.
- Al-Dhabi NA, Arasu MV. 2015. Quantification of Phytochemicals from Commercial Spirulina Products and Their Antioxidant Activities. Evidence-Based Complementary and Alternative Medicine. Volume 2016, Article ID 7631864, 13 pages.
- Ali SK, Saleh AM. 2012. Spirulina an Overview. Int J Pharm Pharm Sci, Vol 4, Issue 3, 9-15.
- Anonim. 2017. Penggunaan dan Penanganan Hewan Coba Rodensia dalam Penelitian. peternakan.litbang.pertanian.go.id/fullteks/booklet/.../isi-juknis-rodensia-2017. pdf. Accessed March 11, 2018.
- Avila JL, Grunmann O, Burd R, Limesand KH. 2009. Radiation-induced salivary gland dysfunction results from p53-dependent apoptosis. Int J Radiat Oncol Biol Phys. 2009 February 1; 73(2): 523-529. Doi:10.1016/j.ijrobp.2008.09.036.
- Azzam EI, Jay-Gerin JP, Pain D. 2012. Ionizing radiation-induced metabolic oxidation stress and prolonged cell injury. Cancer Lett. 2012 December 31; 327(0): 48–60. doi:10.1016/j.canlet.2011.12.012.

BAPETEN, Jakarta, 2013. Peraturan Badan Pengawas Tenaga Nuklir No. 4 Tahun 2013. Tentang Proteksi dan Keselamatan Radiasi Dalam Pemanfaatan Tenaga Nuklir.

BATAN, Jakarta, 2010. Petugas Proteksi Radiasi. Pusat Pendidikan dan Pelatihan Badan Tenaga Nuklir Nasional. hal. 6-8.

BATAN, Jakarta, 2011. Pedoman Keselamatan dan Proteksi Radiasi. Komisi Proteksi Radiasi Kawasan Nuklir Serpong Badan Tenaga Nuklir Nasional. Available from <http://www.batan.go.id/ptlr/11id/sites/default/files/PedomankNS2011.pdf>. Accessed. April 1, 2018.

BATAN. [www.batan.go.id/pusdiklat/elearning/proteksiradiasi/pengenalan\\_radiasi](http://www.batan.go.id/pusdiklat/elearning/proteksiradiasi/pengenalan_radiasi) Efek radiasi terhadap manusia. Accesed at Dec 25, 2018.

Baskar R, Lee KA, Yeo R, Yeoh KW. 2012. Cancer and Radiation Therapy. Current Advances and Future Directions. *International Journal of Medical Sciences*. 2012; 9(3) : 193 – 199,doi : 10.7150/ijms.3635.

Bertolin TE, Farias D, Guarienti C, Petry FTS, Colla LM, Costa JAV. 2011. Antioxidant Effect of Phycocyanin on Oxidative Stress Induced with Monosodium Glutamat in Rats. *Brazilian Archives of Biology and Technology*. v.54 n.4:pp. 733-738, July/Aug 2011.

Bhide SA, Newbold KL, Harrington KJ, Nutting CM. 2012. Clinical Evaluation of Intensity – Modulated Radiotherapy for Head and Neck Cancers. *The British Journal of Radiology*, 85 (2012), 487 – 494.

Birben E, Sahiner UM, Erzurum S, Sackesen C, Kalayci O, Oxidative Stress and Antioxidant Defense. Review Article. *World Allergy Organization Journal*. Januari 2012.

Bucci B, Misiti S, Cannizzaro A, Marchese R, Raza GH, Miceli R, Stigliano A, Amendola D, Monti O, Biancolella M, Amati F, Novelli G, Vecchione A, Brunetti E, De Paula U. 2006. Fractionated Ionizing Radiation Exposure

Induces Apoptosis Through Caspase-3 Activation and Reactive Oxygen Species Generation. *Anticancer Research* 26: 4549 – 4558 (2006).

Chen Q, Kang J, Fu C. 2018. The independence of and associations among apoptosis, autophagy, and necrosis. *Signal Transduction and Targeted Therapy*. Volume 3, Article number: 18 (2018)

Choi JH, u HG, Jung KC, Lee SH, Kwon EK. 2009. Apoptosis and Expression of AQP5 and TGF- $\beta$ in the Irradiated Rat Submandibular Gland. *Cancer Res Treat*. 2009;41(3):145-154

Coleman CN, Blakely WF, Fike JR, Mac Vittie TJ, Meeting NF, Mitchell JB, Moulder JE, Preston RJ, Seed TM, Stone HB, Tofilon PJ, Wong RSL. 2003. Molecular and Cellular of Moderate-Dose Biology ( 1-10 Gy ) Radiation and Potential Mechanisms of Radiation Protection : of a Report at Bethesda, December Workshop Maryland. *Radiat. Res.* 159, 2003, pp. 812–834. doi.org/10.1667/RR3021

Dalle-donne I., Rossi R., Cplombo R., Giustarini D., Milzani A. 2006. Biomarker of oxydative damage in human diseases. *Clinical Chemistry* 52:4. p.601-623.

Delporte C, Bryla A, Perret J. 2016. Aquaporins in Salivary Glands: From Basic Research to Clinical Applications. *Int. J. Mol. Sci.* 2016,17, 166; doi:10.3390/ijms17020166.

Duvvuri U, Kubicek GJ. Principles of Radiation Oncology. 2014. Dalam: Johnson JT, Rosen CA, editor. *Bailey’s Head and Neck Surgery – Otolaryngology*. Ed. S. Philadelphia: Lippincott Williams and Willins; 2014. hal. 1682 – 91.

Dirix P, Nuyts S, Van den Bogaert W. 2006. Radiation-induced xerostomia in patients with head and neck cancer: a literature review. *Cancer*. 2006 Dec 1; 107(11):2525-34

Coppes RP, Zeilstra LJW, Kampinga HH, Konings AWT. 2001. Early to late sparing of radiation damage to the parotid gland by adrenergic and

muscarinic receptor agonists. *British Journal of Cancer* (2001) 85(7), 1055-1063.

Day RE, David PK, Owen S, Bland C, Marshall L, Conner AC, Bill RM, Conner MT. 2014. Human aquaporins: Regulators of transcellular water flow. *Biochimica et Biophysica Acta (BBA) – General Subjects*. Vol 1840, Issue 5, May 2014, p 1492-1506.

El-Thantawi WH, 2016. Antioxidant effects of Spirulina Supplements Against Lead Acetate-Induced Hepatic Injury in Rats. *Journal of Traditional and Complementary Medicine* 6 (2016) 327-331.

Erawati, D, 2006. Prinsip dasar onkologi radiasi. Pelatihan radiografer radioterapi RSU Dr. Sutomo Surabaya. Hlm 1-13.

Ekström J, Khosvarani N, Castagnola M, Messana I. 2012. Saliva and the control of It's secretion. *Dysphagia Medical Radiology. Diagnostic Imaging*. Springer Berlin Heidelberg. Pp 19-47. DOI: 10.1007/174\_2011\_481.

Fiedor, J., Burda, K., 2014. Potential role of carotenoids as antioxidants in human health and disease. *Nutrients* 6 (2), 466–488.

Gershwin ME., Belay A. 2008. *Spirulina in Human Nutrition and Health*. CRC Press. Taylor and Francis Group. London. Pp. 2,3, 21, 33, 41-43, 102-16.

Green EL. 1966. *Biology of The Laboratory Mouse*. 2<sup>nd</sup> ed. The Blakiston Division & McGraw Book Co. New York-Toronto-Sydney-London.

Grundmann O, Mitchell GC, Limesand KH. 2009. Sensitivity of Salivary Glands to Radiation from Animal Models to Therapies. *J Dent Res*. 2009. Oct. 88 (10): 894-903.doi: 10.1177/0022034509343143.

Gudkov AV., Komarova EA. 2010. Pathologies Associated with The p53 response. *Cold Spring Harbor Perspectives in Biology*. 2010; 2: a001180 [PubMed: 20595398].

- Halliwell B. and Lee C. Y. J. 2010. Using isoprostanes as biomarkers of oxidative stress: some rarely considered issues. *Antioxidants and Redox Signaling*, vol. 13, no. 2, pp. 145–156, 2010.
- Halliwell B.. 2012. Free radicals and antioxidants: updating a personal view. *Nutrition Reviews*. Vol. 70, no. 5, pp. 257–265, 2012.
- Halliwell B., Gutteridge JMC. 2015 *Free Radicals in Biology and Medicine*. Fifth Edition. *Oxford University Press*. Pp 20, 30, 40, 43, 77, 199, 200, 331.
- Hamada A. 2000. Disorder of salivary secretion in inbred polydipsic mouse, *AJP-Regulatory, Integrative and Comparative Physiology* 274 (4), 817–823.
- Hardwick JM and Soane L. 2013. Multiple function of Bcl-2 Family Protein. *Cold Spring Harb Perspect Biol*. 2013. Feb 5(2): 1-22.
- Higgins JE and Kleinbaum AP, 1985. *Introduction to Randomized Clinical Trials*. USA: Family Health International, pp.24-25.
- Holley AK, Miao L, St. Clair DK, St. Clair WH. 2014. Redox-Modulated Phenomena and Radiation Therapy: The Central Role of Superoxide Dismutases. *Antioxidants & Redox Signaling* Volume 20, Number 10, 2014.
- Hongmei Z. 2012. Extrinsic and Intrinsic Apoptosis Signal Pathway Review. <https://www.intechopen.com/books/apoptosis-and-medicine/extrinsic-and-intrinsic-apoptosis-signal-pathway-review>. DOI: 10.5772/50129. Accessed at 30 June 2019.
- Ismail MMS, El-Ayouty YM, Normore M. 2016. Role of pH on Antioxidants Production by *Spirulina (Arthrospira) Platensis*. *Brazilian Journal of Microbiology* 47 (2016) 298-304.
- Ismail MF., Ali DA., Fernando A., Abdradoh M., Gaur RL., Ibrahim WM, Raj M HG, Ouhtiti A. 2009. Chemoprevention of rat liver toxicity and carcinogenesis by *Spirulina*. *International Journal of Biological Sciences*.

2009; 5(4): 377-387.

Ismail Md, Hossain F Md., Tanu AR, Shekhar HU. 2015. Effect of Spirulina Intervention on Oxidative Stress, Antioxidant Status, and Lipid in Chronic Obstructive Pulmonary Disease Patients. *Biomed Research International*. Vol. 2015. Article ID 486120. <http://dx.doi.org/10.1155/2015/486120>

Janicka M, Wasik AK, Kot J., Namiesnik J. 2010. Isoprostanes-Biomarkers of Lipid Peroxidation: Their Utility in Evaluating Oxidative Stress and Analysis. *Int. J. Mol. Sci*, 2010, 11, 4631-4659; doi: 10.3390/ijms11114631

Jiang L, Wang Y, Yin Qifeng, Lin G, Liu H, Huang Y, Bing L. 2017. Phycocyanin : A Potential Drug for Cancer Treatment. *Journal of Cancer*. 2017; 8 (17) : 3416-3429. DOI: 10.7150/jca21058.

Kabel AM. 2014. Free Radicals and Antioxidants: Role of Enzymes and Nutrition. *World Journal of Nutrition and Health*, 2014, Vol. 2, No.3, 35-38.

Kamiya K, Satsani M, 2012. Effect of Radiation Exposure on Human Body. Abstract. *Nihin Rinsho*. 2012 Mar; 70 (3): 367-74.

Kumar D., Dhar DW, Pabbi S., Kumar N., Walia S., 2014. Extraction and purification of C-phycocyanin from *Spirulina Platensis* (CCC540). *Ind J Plant Physiol*. (April-June 2014) 19 (2):184-188 DOI 10.1007/s40502-014-0094-7

Kumar V, Abbas AK, Aster JC, 2015. *Robbin and Cotran Pathologic Basis of Disease*. 9<sup>th</sup> ed. Elsevier Saunders Philadelphia. Pp 47, 52, 57

Lee CL, Blum JM, Kirsch DG. 2013. Role of p53 in regulating tissue response to radiation by mechanisms independent of apoptosis. *Transl Cancer Res*. 2013 October; 2(5): 412-421.

Lemeshow, 1997. Besar sampel dalam penelitian kesehatan. Gadjah Mada University Press. Jogjakarta. Hlm. 50-52.

- Lim KH, Lee CJ, Earnest A, Seet RC, Halliwell B. 2010. Does radiotherapy increase oxidative stress? A study with nasopharyngeal cancer patients revealing anomalies in isoprostanes measurements. *Free Radical Research*, September 2010; 44(9): 1064-1071.
- Liu X, Gong B, de Souza LB, Ong HL, Subedi KP, Cheng KT, Swaim W, Zheng C, Mori Y, Ambudkar IS. 2017. Radiation inhibits salivary gland function by promoting STIM1 cleavage by caspase-3 and loss of SOCE through a TRPM2-dependent pathway. *Sci Signal*. 2017 Jun 6;10(482). pii: eaal4064. doi: 10.1126/scisignal.aal4064
- Lobo V., Patil A., Phatak A., Chandra N. 2010. Free Radicals, Antioxidants and Functional Foods: *Impact on Human Health*. *Pharmacology Rev*. 2010 Jul-Dec; 4(8) 118-126.
- Lone AA, Ganai SA, Ahanger RA, Bhat HA, Bhat TA, Wani IA. 2013. Free Radicals and Antioxidants: Myths, fact and mysteries. *Academic Journals*. Vol 7 (3), pp.91-113, March. 2013.
- Makhlouf R, Makhlouf I. 2012. Evaluation of The Effect of Spirulina Againsts Gamma Irradiation Induced Oxidative Stress and Tissue Injury in Rats. *Int. Journal of Applied Sciences and Engineering Research*, Vol. 1, No.2, 2012.
- Malick S, Benson R, Julka PK, Rath GK. 2016. Altered fraction radiotherapy in head and neck squamous cell carcinoma. *Journal of The Egyptian National Cancer Institute*. Cairo University. <http://dx.doi.org/10.1016/j.jnci.2016.02.004>
- Marmary Y, Adar R, Gaska S, Wygoda A, Maly A, Cohen J, Eliashar R, Mizrachi L, Orfaig-Geva C, Baum BJ, Rose-John S, Galun E, Axelrod JH. 2016. Radiation-induced loss of salivary gland function is driven by cellular senescence and prevented by IL6 modulated. *Cancer Res*; 76(5) March 1, 2016. p.1170-2846.
- Martin KL, Hill GA, Klein RR, Arnett DG, Burd R, Limesand KH. 2012.
- DISERTASI                      PROTEKSI XEROSTOMIA AKIBAT...                      SARIANOFERNI

Prevention of Radiation Induced Salivary Gland Dysfunction Utilizing a CDK Inhibitor in a Mouse Model. PLoS ONE 7(12): e51363. <https://doi.org/10.1371/journal.pone.0051363>

Matsuzaki T, Susa T, Shimizu K, Sawai N, Suzuki T, Aoki T, Yokoo S, Takata K. 2012. Function of the Membrane Water Channel Aquaporin-5 in the Salivary Gland. The Japan Society of Histochemistry and Cytochemistry. 45 (5): 251-259, 2012.

Morgan-Bathke M, Hill GA, Harris ZI, Lin HH, Chibly AM, Klein RR, Burd R, Limesand KH. 2014. Autophagy correlates with maintenance of salivary gland function following radiation. Scientific Reports. 4: 5206. DOI: 10.1038/srep05206.

Naito Y., Lee M.C., Kato Y., Nagai R., Yonei Y. 2010. Oxidative stress marker, anti-aging medicine. p.36-44.

Nurhayati S, Kisananto T, Syaifudin M. 2011. Superoksida Dismutase (SOD). Apa dan Bagaimana Peranannya dalam Radioterapi. Iptek Ilmiah Populer. Buletin Alara, Vol. 13 No.2. Desember 2011. hal. 67-74.

Opferman JT and Kothari A. 2018. Anti-apoptotic BCL-2 family members in development. Cell death differentiation (2018) 25, 37-45.

Pak W, Takayama F, Mine M, Nakamoto K, Kodo Y, Mankura M, Egashira T, Kawasaki H, Mori A. 2012. Anti-oxidative and anti-inflammatory effects of spirulina on rat model of non-alcoholic steatohepatitis. J. Clin. Biochem. Nutr. November 2012. Vol. 51. No. 3. 227–234.

Parasuraman S, Raveendran R, Kesavan R. Blood sample collection in small laboratory animals. J Pharmacol Pharmacother. 2010 Jul-Dec; 1(2): 87–93. doi: 10.4103/0976-500X.72350.

Pavani A, Chaitanya RK, Chauhan VK, Dasgupta A, Gupta AD. Differential oxidative stress responses in castor semilooper, *Achaea janata*. Journal of



Invertebrate Pathology 132 (2015) 157–164.

Pinna R, Campus G, Cumbo E, Mura I, Milia E. 2015. Xerostomia induced by radiotherapy: an overview of the physiopathology, clinical evidence, and management of the oral damage. *Therapeutics and Clinical Risk Management* 2015: 11.

Pratama RA. 2016. Deteksi kanker kepaladan leher. <https://banten.bisnis.com/read/20160814/462/575076/detekskanker-kepala-leher>. Accessed at 30 June 2019.

Ridlo A, Sedjati S, Supriyantini E. 2015. Aktifitas Antioksidan Fikosianin dari *Spirulina* Sp. Menggunakan Metode Transfer Elektron dengan DPPH (1,1-difenil-2-dipikrihidrazil). *Jurnal Kelautan Tropis* September 2015 Volume 18(2):58-63

Roberts LJ and Morrow JD. 2000<sup>a</sup>. Measurement of F2-isoprostanes as an index of oxidative stress in vivo. *Free Radical Biology and Medicine*, vol. 28, no. 4, pp. 505–513, 2000.

Roberts LJ and Morrow JD. 2000<sup>b</sup>. The Isoprostanes: Unique Bioactive Product of Lipid Peroxidation. Oxford Biomedical Research. Departement of Pharmacology and Medicine. Vanderbilt. University Nashville. <http://oxfordbiomed.com>. Accessed at 3 April 2019.

Robbins SL., Kumar VK, Cotran RS. 2014. 9<sup>th</sup> ed. *Basic Pathology*. Elsevier Inc. New York. USA. Pp 15-33.

Rosen FS, Bailey BJ, 2001. Anatomy and physiology of the salivary glands. [http://www.utmb.edu/otoref/grnds/salivary\\_glands\\_2001\\_01/salivary\\_gland\\_2001\\_01.pdf](http://www.utmb.edu/otoref/grnds/salivary_glands_2001_01/salivary_gland_2001_01.pdf).

Saiki JP, Cao H, Van Wassenhove LD, Viswanathan V, Bloomstein J. Aldehyde dehydrogenase 3A1 activation prevents

radiation-induced xerostomia by protecting salivary stem cells from toxic aldehydes. *Proc. Natl. Acad. Sci. USA*. 2018, Vol. 115 no. 24, pp. 6279–6284. doi.org/10.1073/pnas.1802184115

Santivasi WL, Xia F. 2014. Ionizing Radiation-Induced DNA Damage, Response, and Repair: *Antioxidant & Redox Signaling*. Volume 21, Number 2, 2014: 251-259.

Santos NFGD, Silva RF, Pinto MMPL, Da Silva EB, Tasat DR, Amaral A. 2017. Active caspase-3 expression levels as bioindicator of individual radiosensitivity. *Ann. Brazilian Acad. Sci.* Vol. 89 no. 1 Suppl., pp. 649–659.

Sarianoferni, 2009. Apoptosis Sel Asinar Kelenjar Submandibularis Tikus Wistar Jantan Akibat Radiasi Ionisasi Sinar Photon dan Elektron. Tesis Fakultas Kedokteran Gigi Universitas Airlangga Surabaya.

Sayuti K, Yenrina R, 2015. Antioksidan, Alami dan Sintetik. Andalas University Press. Padang, 2015. ISBN 978-602-8821-97-1

Sedjati S, Yudiati E, Suryono. 2012. Profil Pigmen Polar dan Non Polar Mikroalga Laut Spirulina sp. dan Potensinya sebagai Pewarna Alami. *Ilmu Kelautan*. Vol. 17 (3) : h. 176-181.

Sharma N. 2014. Free Radicals, Antioxidant and Disease. *Biol Med* 2014, 6;3

Shetty P., Shenai P., Chatra L., Rao PK. 2013. Efficacy of Spirulina as an antioxidant adjuvant to corticosteroid injection in management of oral submucous fibrosis. *Indian Journal of Dental Research*, 24 (3), 2013. Pp. 347-350.

Sheu M., Hsieh YY., Lai CH, Chang CC., Wu CH. 2013. Antihyperlipidemic and Antioxidant Effects of C-phycoyanin in Golden Syrian Hamsters Fed with a Hypercholesterolemic Diet.

Signorini C, De Felice C, Durand T, Oger C, Galano JM, Leoncini S, Pecorelli A,

DISERTASI                      PROTEKSI XEROSTOMIA AKIBAT...                      SARIANOFERNI

- Valacchi G, Ciccoli L, Hayek J. 2013. Isoprostanes and 4-Hydroxy-2-nonenal: Marker or Mediators or Disease? Focus on Rett Syndrome as a Model of Autism Spectrum Disorder. *Oxidative Medicine and Cellular Longevity*. Volume 2013, Article ID 343824. 10 pages. <http://dx.doi.org/10.1155/2013/343824>
- Sønstevoid T, Johannessen C, Stuhr L. 2015. A rat model of radiation injury in the mandibular area. *Radiation oncology*. 2015 10: 129.
- Suyatno F, 2008. Aplikasi Radiasi Sinar-X di Bidang Kedokteran untuk Menunjang Kesehatan Masyarakat. Pusat Rekayasa Perangkat Nuklir-BATAN. Available from [http://kbs.jogjakota.go.id/upload/53\\_FerrySuyatno503-509.pdf](http://kbs.jogjakota.go.id/upload/53_FerrySuyatno503-509.pdf). Accessed at March 23, 2015.
- Tolentino ES, Centurion BS, Ferreira LCH, Souza AP, Damante JH, Rubira-Bullen IRF. 2011. Oral Adverse Effect of head and Neck Radiotherapy: Literature Review and Suggestion of a Clinical Oral Care Guideline for Irradiated Patients. *J Appl Oral Sci*. 2011; 19(5): 448-54
- Van Rensburg Jansen, 1995. Oral Biology. Salivary Glands. Quintessence Publishing Co, Inc. Chicago. pp 459-467.
- Verkman AS. 2013. Aquaporins. *Curr Biol*. 2013 January 21; 23 (2): R52-R55. pp 1-6.
- Vissink A, Mitchell JB, Baum BJ, Limesand KH, Jensen SB, Fox PC, Elting LS, Langendijk LA, Coppes RP, Reyland ME. 2010. Clinical management of salivary gland hypofunction and xerostomia in head-and-neck cancer patients: Successes and barriers. *Int J Radiat Oncol Biol Phys* 2010 Nov 15; 78 (4): 983-991. doi: 10.1016/j.ijrobp.2010.06.052
- Vonshak A. 2002. *Spirulina Platensis (Arthrospira)*. Physiology, cell biology and biotechnology. Taylor & Francis Inc. London. pp. 131-158.
- Voss AK, Strasser A. The essentials of developmental apoptosis. 2020.

F1000Research 2020, 9 (F1000 Faculty Rev): 148 Last updated: 26 Feb 2020.

Wang X and Nils W. 2014. Bcl-2 maintains the mitochondrial membrane potential, but fails to affect production of reactive oxygen species and endoplasmic reticulum stress, in sodium palmitate-induced b-cell death. *Upsala Journal of Medical Sciences*, 2014; 119: 306-315.

Wangler TP at. Wiedermann H, Brandt D, Perevedentsev EA, Kurokawa S. 2002. *Physics and Technology of Linear Accelerator Systems. Proceeding of the 2002. Joint USPASS – CAS – JAPAN – RUSIA Accelerator School. World Scientific Publishing Co. Pte. Ltd. Singapore.*

Whaites E, 2013. *Essentials of Dental Radiography and Radiology. 5<sup>th</sup> Ed. Elsevier. p. 29-31, 88, 91.*

White SC, Pharoah MJ. 2014. *Oral Radiology : Principles and Interpretation, Seventh Edition. Canada: Elsevier Health Sciences. pp 3:20.*

WHO. 2014. *Head And Neck Cancer. Union for International Cancer Control 2014 Review of Cancer Medicines on the WHO List of Essential Medicines. [https://www.who.int/selection\\_medicines/committees/expert/20/applications/HeadNeck.pdf](https://www.who.int/selection_medicines/committees/expert/20/applications/HeadNeck.pdf). Accessed at 30 April 2019.*

Wu Q, Liu L, Miron A, Klimova B, Wan D, Kuca K. 2016. *The Antioxidant, Immunomodulatory, and Anti-inflammatory Activities of Spirulina: An Overview. Arch Toxicol DOI 10. 1007/s00204-016-1744-5 Springer-Verlag Berlin Heidelberg 2016.*

Wu VWC, Leung KY. 2019. *A Review on the assesment of Radiation Induced Salivary Gland Damage After Radiotherapy. Vol.9. Oct 2019. pp 1-9.*

Xiang B., Li YJ , Zhao XB, Zou Y., Yu ZG., Zhao YM, Zhang FY. 2013 *Mechanism of The Protective Effect of Phenilephrine Pretreatment Againts irradiation-induced Damage in The Submandibular Gland.*

- Xia L, Xue XZ. 2012. Immunohistochemical Study of NF- $\kappa$ B p65, c-IAP2 and Caspase-3 Expression in Cervical Cancer. *Oncology Letters*; 3: 839-844.
- Yadav DK, Kumar S, Choi EH, Sharma P, Misra S, Kim MH. 2018. Insight into The Molecular Dynamic Simulation Studies of ROS in Native Skin Membrane. *Frontier in Pharmacology*. 2018; 9: 644.
- Zainuddin M, 1999. Metodologi Penelitian. Hand out. Hlm. 38-57.
- Zainuri M., Wanandi SI. 2012. Aktivitas Spesifik *Manganese Superoxide Dismutase (Mnsod)* Dan Katalase Pada Hati Tikus Yang Diinduksi Hipoksia Sistemik: Hubungannya Dengan Kerusakan Oksidatif. *Media Litbang Kesehatan* Volume 22 Nomor 2, Juni Tahun 2012.
- Zou Z, Chang H, Li H, Wang S. 2017. Induction of reactive oxygen species: an emerging approach for cancer therapy. *Apoptosis* November 2017, Volume 22, Issue 11, pp 1321–1335
- Yamasita, 2004. P53 and BCL-2 Scoring. *Breast Cancer Res.*6: 24-30.
- Yigit F, Gurel-Guverin E, Isbilen-Basok B, Esener OBB, Bilal T, Keser O, Altiner A, Yilmazer N, Ikitimur-Armutak E. 2016. Protective effect of *Spirulina platensis* against cell damage and apoptosis in hepatic tissue caused by high fat diet. *Biotechnic & Histochemistry*, DOI: 10.3109/10520295.2015.1114142. ISSN: 1052-0295 (Print) 1473-7760 (Online) Journal homepage: <http://www.tandfonline.com/loi/ibih20>