

## DAFTAR PUSTAKA

1. Biddle C. Oxygen : the two-faced elixir of life. AANA J. 2008 (cited : 15 September 2018);76(1):available from : <https://www.ncbi.nlm.nih.gov/pubmed/18323322>
2. National Aeronautics and Space Administration GRADES K-12. Air space: Making Oxygen and Carbon Dioxide (cited : 15 September 2018);
3. Corsonello A, Pedone C, Scarlata S, Antonelli-Incalzi R. The oxygen therapy. *Current Medicinal Chemistry*. 2013;20(9):1103.
4. MacIntyre NR. Tissue Hypoxia: Implications for the Respiratory Clinician. *Respiratory Care*. 2014;59(10):1590–1596. (cited: 15 September 2018) <https://www.ncbi.nlm.nih.gov/pubmed/25161296>
5. Roach RC, Wagner PD, Kayser B, Hackett PH. Hypoxia: Translation in Progress. *J Apply Physiol*. 2015;119(10):1127-28
6. Guzy R, Schumacker P. Oxygen sensing by mitochondria at complex III: the paradox of increased reactive oxygen species during hypoxia. *EP*. 2006;91(5):807-19
7. Halliwell B. How to characterize an antioxidant: an update. *Biochem Soc symp*. 1955;61:73-101
8. Lobo V, Patil A, Phatak A, Chandra N. Free radicals, antioxidants, and fuctional foods: Impact on human health. *Pharmacogn Rev*. 2010;4(8):118
9. Ray P, Huang B, Tsuji Y. Reactive oxygen species homeostasis and redox regulation is celular signaling. *Cellular Signaling*. 2012;5(5):981-90
10. Manfred EK. Reactive oxygen metabolites. CRC Press, Washington DC. 2001;2:174-75
11. MacIntyre NR. Tissue Hypoxia: Implications for the Respiratory Clinician. *Respiratory Care*. 2014;59(10):1590–1596. (cited: 15 September 2018) <https://www.ncbi.nlm.nih.gov/pubmed/25161296>
12. Roach RC, Wagner PD, Kayser B, Hackett PH. Hypoxia: Translation in Progress. *J Apply Physiol*. 2015;119(10):1127-28
13. Sherwood L. Human Physiology: From Celss to Systems. Boston: Cengage Learning, 2015;9:593-94

14. Abdel-Misih S, Bloomston M. Liver Anatomy. Surg Clin of North Am. 2010;90(4):643-53
15. Nath V, Szabo G. Hypoxia and hypoxia inducible factors: Diverse Roles in Liver Diseases. Hepatology. 2012;55(2):622-33
16. Liu F, Zhang J, Qian J, Wu G, Ma Z. Baicalin attenuates liver hypoxia/reoxygenation injury by inducing autophagy. Exp Ther Med. 2018;16(2):657-64
17. Mesarwi OA, Shin M.-K, Bevans-Fonti S, Schlesinger C, Shaw J, Polotsky VY. Hepatocyte Hypoxia Inducible Factor-1 Mediates the Development of Liver Fibrosis in a Mouse Model of Nonalcoholic Fatty Liver Disease. PLOS ONE. 2016;11(12):1-15.
18. Gülçin İ, Topal F, Çakmakçı R, Bilsel M, Gören AC, Erdogan U. Pomological features, nutritional quality, polyphenol content analysis, and antioxidant properties of domesticated and 3 wild ecotype forms of raspberries (*Rubus idaeus* L.). J Food Sci. 2011;76(4):C585–C593.
19. Ferlemi AV, Lamari F. Berry Leaves: An alternative source of bioactive natural products of nutritional and medicinal value. Antioxidants. 2016;5(2):17.
20. Dragišić Maksimović JJ, Poledica MM, Radivojević DD, Milivojević JM. Enzymatic profile of 'willamette' raspberry leaf and fruit affected by prohexadione-ca and young canes removal treatments. J Agric Food Chem. 2017;65(24):5034–40.
21. Brasted RC. Oxygen. (cited : 25 November 2018) Available from: <https://www.britannica.com/science/oxygen#toc436806main>
22. Mika Venojärvi M. Metabolism of oxygen. Encyclopedia of Life Support Systems: Physiology and Maintenance. 2009;2(1):61.
23. Jauniaux E, Postob L, Burton G. Placental-related diseases of pregnancy: involvement of oxidative stress and implications in human evolution. Hum Reprod Update. 2006;12(6):747-55
24. Manfred EK. Reactive oxygen metabolites. CRC Press, Washington DC. 2001;2:174-75
25. Pearce EC. Anatomi dan fisiologi untuk paramedis. Jakarta: Gramedia;2005
26. Guyton AC, Hall JE. Buku Ajar Fisiologi Kedokteran. EGC, Jakarta. 2014;12:907-909

27. Cannito S, Turato C, Paternostro C, Biasiolo A, Colombatto S, Cambieri I, et al. Hypoxia up-regulates SERPINB3 through HIF-2 $\alpha$  in human liver cancer cells. *Oncotarget*. 2014;6(4):2206-21
28. Lieberman M, Marks AD. Basic medical biochemistry: A clinical approach. LWW, US: 2012:4
29. Angelova PR, Abramov AY. Functional role of mitochondrial reactive oxygen species in physiology. *Free Radic Biol Med*. 2016;100: 81-85
30. Alfadda AA, Sallam RM. Reactive Oxygen Species in Health and Disease. *Journal of Biomedicine and Biotechnology*. 2012 (cited 25 September 2018); Available from: [www.hindawi.com/journals/bmri/2012/936486/](http://www.hindawi.com/journals/bmri/2012/936486/)
31. Auten RL, Davis JM. Oxygen Toxicity and Reactive Oxygen Species: The Devil Is in the Details. *Pediatr Res*. 2009;66:121-27
32. Halliwell B. Reactive Species and Antioxidants. Redox Biology Is a Fundamental Theme of Aerobic Life. *Plant Physiol*. 2006;141(2):312-22
33. Oja SS, Janaky R, Varga V, Saranasaari P. 2007. Modulation of glutamate receptor functions by glutathione. *Neurochem Int* 37:299–306.
34. De Rosa, S.C., Zaretsky, M.D., Dubs, J.G., et al. 2008. N-acetylcysteine replenishes glutathione in HIV infection. *Eur J Clin Invest*; 30: 915-929.
35. Zhang H, Forman HJ and Choi J. 2009.  $\gamma$ -glutamyltrnas peptidase in glutathione biosynthesis. *Methods in Enzymology* 401:468-48
36. Nita M, Grzybowski A. The Role of the Reactive Oxygen Species and Oxidative Stress in the Pathomechanism of the Age-Related Ocular Diseases and other Pathologies of the Anterior and Posterior Eye Segments in Adults. *Oxid Med Cellular Longev*. 2016 Nov (cited: 25 September 2018); Available from: [www.hindawi.com/journals/omcl/2016/3164734/](http://www.hindawi.com/journals/omcl/2016/3164734/)
37. Mach WJ, Thimmesch AR, Pierce JT, Pierce JD. Consequences of Hyperoxia and the Toxicity of Oxygen in the Lung. *Nurs Res and Prac*. 2011:1-7
38. Murray RK, Bender DA, Botham KM, Kennelly PJ, Rodwell VW, Weil PA. *Biokimia Harper*. Jakarta: EGC; 2003:29 Villamena FA *Molecular Basis of Oxidative Stress*. New Jersey: John Wiley & Sons, Inc. 2013;203:1-48
39. United States Departement of Agriculture. Natural Resources Conservation Service. (cited : 30 November 2018) available from : <https://plants.usda.gov/java/nameSearch>

40. Ridwan E. Etika Pemanfaatan Hewan Percobaan Dalam Penelitian Kesehatan. *J Indon Med Asoc.* 2013;63(3):113-16
41. Novita R. Pemilihan Hewan Coba pada Penelitian Pengembangan Vaksin Tuberkulosis. *Jurnal Biotek Medisiana Indonesia.* 2015;4:15-23
42. Animal Diversity Web. University of Michigan Museum Of Zoology. (Cited: 25 September 2018). Available from : [http://animaldiversity.org/accounts/Rattus\\_norvegicus/classification/](http://animaldiversity.org/accounts/Rattus_norvegicus/classification/)
43. Veljkovic B, Dordevic N, Dolicanin Z, Liciana B, Topuzovic M, Stankovic M, et al. Antioxidant and Anticancer Properties of Leaf and Fruit Extracts of the Wild Raspberry (*Rubus idaeus* L.). *Notulae Botanicae Horti Agrobotanici Cluj-Napoca.* 2019;47(2):359-67.
44. Costea T, Lupu AR, Vlase L, Nencu I, Gird CE. Phenolic Content and Antioxidant Activity of a Raspberry Leaf Dry Extract. *Romanian Biotechnological Letter.* 2016;21(2):11345-56
45. Gawron-Gzella A, Dudek-Makuch M, Matlawska I. DPPH Radical Scavenging Activity And Phenolic Compound Content In Different Leaf Extracts From Selected Blackberry Species. *Acta Biologica Cracoviensia Series Botanica.* 2012;54(2):32-38.
46. Wang L, Lin X, Zhang J, Zhang W, Hu X, Li W, Li C, et al. Extraction methods for the releasing of bound phenolics from *Rubus idaeus* L. leaves and seeds. *Industrial Crop & Produce.* 2019;135:1-9.
47. Baby B, Antony P, Vijayan R. Antioxidant and anticancer properties of berries. *Critical Reviews in Food Science and Nutrition.* 2017;1-74
48. Ali N, Shaoib M, Shah SWA, Shah I, Shuaib M. Pharmacological profile of the aerial parts of *Rubus Ulmifolius* Schott. *BMC Complementary and Alternative Medicine.* 2017;17-59
49. Franco R, Cidlowski JA. Apoptosis and glutathione: beyond an antioxidant. *Cell death and Differ.* 2009;16(10):1303-14
50. McVicker BL, Tuma PL, Kharbanda KK, Lee SM, Tuma DJ. Relationship between oxidative stress and hepatic glutathione levels in ethanol-mediated apoptosis of polarized hepatic cells. *World J Gastroenterol: WJG.* 2009;15(21): 2609- 2016
51. Ahmadvand H, Babaeenezhad E, Nasri M, Jafaripour L, Khorramabadi RM. Glutathione ameliorates liver markers, oxidative stress and inflammatory indices in rats with renal ischemia reperfusion injury. *J Renal Inj Prev.* 2019;8(2):91-7

52. Luo Y, Lu G, Chen Y, Liu F, Xu G, Yin J, et al. Long-term Cycles of Hypoxia and Normoxia Increase the Contents of Liver Mitochondrial DNA in Rats. *Eur J Appl Physiol.* 2013;112:223-32