

DAFTAR PUSTAKA

1. Kim Gh, Kim Je, Rhie Sj, Yoon S. The Role Of Oxidative Stress In Neurodegenerative Diseases. *Exp Neurobiol.* 2015;24(4):325–40.
2. Gitler Ad, Dhillon P, Shorter J. Neurodegenerative Disease: Models, Mechanisms, And A New Hope. *Dis Model Mech.* 2017;10(5):499–502.
3. Mukandala G, Tynan R, Lanigan S, O'connor Jj. The Effects Of Hypoxia And Inflammation On Synaptic Signaling In The Cns. *Brain Sci.* 2016 (cited 2019 Jun 28);6(1): Available From: [Https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4810176/](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4810176/)
4. Alghoula F, Berim I. Anoxia (Hypoxic Hypoxia). In: Statpearls Treasure Island (Fl): Statpearls Publishing; 2018
5. Halliwell B. Reactive Species And Antioxidants. Redox Biology Is A Fundamental Theme Of Aerobic Life. *Plant Physiol.* 2006;141(2):312–22.
6. Birben E, Sahiner Um, Sackesen C, Erzurum S, Kalayci O. Oxidative Stress And Antioxidant Defense. *World Allergy Organ J.* 2012;5(1):9.
7. Lieberman, M., Peet, A. And Chansky, M. Marks' Basic Medical Biochemistry. 4th Ed. Philadelphia: Lippincott Williams & Wilkins, A Wolters Kluwer;2006.
8. Debevec T, Millet Gp, Pialoux V. Hypoxia-Induced Oxidative Stress Modulation With Physical Activity. *Front Physiol.* 2017(cited 2018 Sep 25);8: Available From: [Https://Www.ncbi.nlm.nih.gov/pmc/articles/PMC5303750/](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5303750/)
9. Gaweł S, Wardas M, Niedworok E, Wardas P. [Malondialdehyde (MDA) As A Lipid Peroxidation Marker]. *Wiadomosci Lek Wars Pol* 1960. 2004;57(9–10):453–5.
10. Lipid Peroxidation: Production, Metabolism, And Signaling Mechanisms Of Malondialdehyde And 4-Hydroxy-2-Nonenal. (cited 2018 Oct 3): Available From: [Https://www.hindawi.com/Journals/Omcl/2014/360438/](https://www.hindawi.com/Journals/Omcl/2014/360438/)
11. Lobo V, Patil A, Phatak A, Chandra N. Free Radicals, Antioxidants And Functional Foods: Impact On Human Health. *Pharmacogn Rev.* 2010;4(8):118–26.
12. Urso MI, Clarkson Pm. Oxidative Stress, Exercise, And Antioxidant Supplementation. *Toxicology.* 2003;189(1–2):41–54.
13. Wang Sy, Lin H-S. Antioxidant Activity In Fruits And Leaves Of Blackberry, Raspberry, And Strawberry Varies With Cultivar And Developmental Stage. *J Agric Food Chem.* 2000;48(2):140–6.
14. Wang Sy, Lewers Ks. Antioxidant Capacity And Flavonoid Content In Wild Strawberries. *J Am Soc Hortic Sci.* 2007;132(5):629–37.
15. Pham-Huy La, He H, Pham-Huy C. Free Radicals, Antioxidants In Disease And Health. *Int J Biomed Sci Ijbs.* 2008; 4(2):89–96.
16. Giaccia Aj, Simon Mc, Johnson R. The Biology Of Hypoxia: The Role Of Oxygen Sensing In Development, Normal Function, And Disease. *Genes Dev.* 2004;18(18):2183–94.
17. Halliwell B, Gutteridge Jmc. Free Radicals In Biology And Medicine. Oxford University Press; 2015

18. Lopez-Barneo J, Pardal R, Ortega-Sáenz P. Cellular Mechanism Of Oxygen Sensing. *Annu Rev Physiol.* 2001;63:259–87.
19. Li L, Qu Y, Li J, Xiong Y, Mao M, Mu D. Relationship Between Hif-1 α Expression And Neuronal Apoptosis In Neonatal Rats With Hypoxia–Ischemia Brain Injury. *Brain Res.* 2007;1180:133–9.
20. Bergamini C, Gambetti S, Dondi A, Cervellati C. Oxygen, Reactive Oxygen Species And Tissue Damage. *Curr Pharm Des.* 2004;10(14):1611–26.
21. Auten RI, Davis JM. Oxygen Toxicity And Reactive Oxygen Species: The Devil Is In The Details. *Pediatr Res.* 2009;66(2):121–7.
22. Chandel NS, Maltepe E, Goldwasser E, Mathieu CE, Simon MC, Schumacker PT. Mitochondrial Reactive Oxygen Species Trigger Hypoxia-Induced Transcription. *Proc Natl Acad Sci U S A.* 1998 Sep;95(20):11715–20.
23. Kumar H, Choi D-K. Hypoxia Inducible Factor Pathway And Physiological Adaptation: A Cell Survival Pathway? *Mediators Of Inflammation.* 2015 (cited 2018 Oct 2): Available From: <Https://www.hindawi.com/Journals/Mi/2015/584758/>
24. Free Radicals: Properties, Sources, Targets, And Their Implication In Various Diseases. (cited 2018 Oct 4): Available From: <Https://www.ncbi.nlm.nih.gov/pmc/Articles/Pmc4310837/#Cr10>
25. Pham-Huy La, He H, Pham-Huy C. Free Radicals, Antioxidants In Disease And Health. *Int J Biomed Sci Ijbs.* 2008 J;4(2):89–96.
26. Genestra M. Oxyl Radicals, Redox-Sensitive Signalling Cascades And Antioxidants. *Cell Signal.* 2007;19(9):1807–19.
27. Beckhauser TF, Francis-Oliveira J, Pasquale RD. Reactive Oxygen Species: Physiological And Physiopathological Effects On Synaptic Plasticity. *J Exp Neurosci.* 2016;10(Suppl 1):23.
28. Reactive Oxygen Species, Oxidative Damage, And Antioxidative Defense Mechanism In Plants Under Stressful Conditions. (cited 2018 Nov 10) : Available From: <Https://www.hindawi.com/Journals/Jb/2012/217037/>
29. Repetto M, Semprine J, Boveris A. Lipid Peroxidation: Chemical Mechanism, Biological Implications And Analytical Determination. In: Catala A, Editor. *Lipid Peroxidation.* Intech; 2012 (cited 2018 Nov 10) : Available From: <Http://Www.Intechopen.Com/Books/Lipid-Peroxidation/Lipid-Peroxidation-Chemical-Mechanism-Biological-Implications-And-Analytical-Determination>
30. Ayala A, Muñoz MF, Argüelles S. Lipid Peroxidation: Production, Metabolism, And Signaling Mechanisms Of Malondialdehyde And 4-Hydroxy-2-Nonenal. *Oxidative Medicine And Cellular Longevity.* 2014 (cited 2018 Sep 29]. Available From: <Https://www.hindawi.com/Journals/Omcl/2014/360438/>
31. Grotto D, Maria LS, Valentini J, Paniz C, Schmitt G, Garcia SC, Et Al. Importance Of The Lipid Peroxidation Biomarkers And Methodological Aspects For Malondialdehyde Quantification. *Quím Nova.* 2009;32(1):169–74.
32. Benzie IFF. Evolution Of Antioxidant Defence Mechanisms. *Eur J Nutr Heidelb.* 2000 Jun;39(2):53–61.
33. Budiman S, Saraswati D. Berkebun Stoberi Secara Komersial. Jakarta: Penebar Swadaya;2008.

34. Itis Standard Report Page: Fragaria Vesca. (cited 2018 Nov 20): Available From:Https://Www.Itis.Gov/Servlet/Singlerpt/Singlerpt?Search_Topic=Tsn&Search_Value=24634#Null
35. Berkas:Strawberries.Jpg. In: Wikipedia Bahasa Indonesia, Ensiklopedia Bebas (cited 2018 Dec 6).: Available From: <Https://id.Wikipedia.Org/Wiki/Berkas:Strawberries.Jpg>
36. Li Y, Zhang J-J, Xu D-P, Zhou T, Zhou Y, Li S, Et Al. Bioactivities And Health Benefits Of Wild Fruits. *Int J Mol Sci.* 2016;17(8):1258.
37. Van De Velde F, Tarola A, Güemes D, Pirovani M. Bioactive Compounds And Antioxidant Capacity Of Camarosa And Selva Strawberries (Fragaria X Ananassa Duch.). *Foods.* 2013;2(2):120–31.
38. Skrovankova S, Sumczynski D, Mlcek J, Jurikova T, Sochor J. Bioactive Compounds And Antioxidant Activity In Different Types Of Berries. *Int J Mol Sci.* 2015;16(10):24673–706.
39. Kossel A. Ueber Das Nuclein Der Hefe. *Z Für Physiol Chem.* 2009;3(4):284–291.
40. Thirumurugan D, Cholarajan A, Raja Sss, Vijayakumar R. An Introductory Chapter: Secondary Metabolites. In: Vijayakumar R, Raja Sss, Editors. *Secondary Metabolites - Sources And Applications.* Intech; 2018 (cited 2018 Nov 10):Available From: <Http://www.Intechopen.Com/Books/Secondary-Metabolites-Sources-And-Applications/An-Introductory-Chapter-Secondary-Metabolites>
41. S. Agostini-Costa T Da, F. R, R. H, Silveira D, A. M. Secondary Metabolites. In: Dhanarasu S, Editor. *Chromatography And Its Applications* Intech; 2012 (Cited 2018 Nov 10). Available From: <Http://Www.Intechopen.Com/Books/Chromatography-And-Its-Applications/Secondary-Metabolites>
42. Demain Al, Fang A. The Natural Functions Of Secondary Metabolites. *Adv Biochem Eng Biotechnol.* 2000;69:1–39.
43. Azwanida Nn. A Review On The Extraction Methods Use In Medicinal Plants, Principle, Strength And Limitation. *Med Aromat Plants [Internet].* 2015 (Cited 2018 Nov 10);04(03). Available From: <Http://www.omicsgroup.Org/Journals/A-Review-On-The-Extraction-Methods-Use-In-Medicinal-Plants-Principle-Strength-And-Limitation-2167-0412-1000196.Php?Aid=58448>
44. Altemimi A, Lakhssassi N, Baharlouei A, Watson D, Lightfoot D. Phytochemicals: Extraction, Isolation, And Identification Of Bioactive Compounds From Plant Extracts. *Plants.* 2017;6(4):42.
46. Sasidharan S, Chen Y, Saravanan D, Sundram Km, Yoga Latha L. Extraction, Isolation And Characterization Of Bioactive Compounds From Plants' Extracts. *Afr J Tradit Complement Altern Med.* 2010;8(1):1–10.
47. The 3rs And Animal Welfare | Understanding Animal Research | Understanding Animal Research [Internet]. [Cited 2018 Nov 20]. Available From:<Http://Www.Understandinganimalresearch.Org.Uk/Animals/Three-Rs/>
48. Johnson M. Laboratory Mice And Rats. *Mater Methods* 2018. (cited 2018 Nov 20); Available From: </Method/Laboratory-Mice-And-Rats.Html>
49. Adiyati Pn. Ragam Jenis Ektoparasit Pada Hewan Coba Tikus.Fakultas Hewan Institut Pertanian Bogor.2011:47.

50. Rats, Sprague-Dawley - Mesh - Ncbi (Cited 2019 Jul 1): Available From: <Https://www.ncbi.nlm.nih.gov/Mesh?Db=Mesh&Cmd=Detailssearch&Term=%22rats,+Sprague-Dawley%22%5bmesh+Terms%5d>
51. Federer Wt. Experimental Design: Theory And Application. 1st Ed. New York: Macmillan; 1955.
52. Blois Ms. Antioxidant Determinations By The Use Of A Stable Free Radical. *Nature*;2000
53. Singleton Vl, Rossi Ja. Colorimetry Of Total Phenolics With Phosphomolybdic-Phosphotungstic Acid Reagents. *Am J Enol Vitic*. 1965;16(3):144–58.
54. Patel Rk, Patel Jb, Trivedi Pd. Spectrophotometric Method For The Estimation Of Total Alkaloids In The *Tinospora Cordifolia* M. And Its Herbal Formulations. *Nt J Pharm Pharm Sci*. 2015;7(10):249-251.
55. Meyer B, Ferrigni N, Putnam J, Jacobsen L, Nichols D, McLaughlin J. Brine Shrimp: A Convenient General Bioassay For Active Plant Constituents. *Planta Med*. 1982;45(05):31–4.
56. Wills Ed. Mechanisms Of Lipid Peroxide Formation In Animal Tissues. *Biochem J*. 1966;99(3):667–676.
57. Dhole Ar, Mohite Sk, Magdum Cs. Pharmacognostical Evalution Of *Fragaria Vesca* Linn Leaf. 2008;4(4):3.
58. Hajiboland R, Moradtalab N, Eshaghi Z, Feizy J. Effect Of Silicon Supplementation On Growth And Metabolism Of Strawberry Plants At Three Developmental Stages. *N Z J Crop Hortic Sci*. 2018;46(2):144–61.
59. Buřičová L, Andjelkovic M, Čermáková A, Réblová Z, Jurček O, Kolehmainen E, Et Al. Antioxidant Capacity And Antioxidants Of Strawberry, Blackberry, And Raspberry Leaves. *Czech J Food Sci*. 2011;29(No. 2):181–9.
60. H. Yildiz, S. Ercisli, A. Hegedus, M. Akbulut, E.F. Topdas, J. Aliman. Bioactive Content And Antioxidant Characteristics Of Wild (*Fragaria Vesca* L.) And Cultivated Strawberry (*Fragaria × Ananassa* Duch.) Fruits From Turkey. *J Appl Bot Food Qual* 87 274-278rticle/ View/3114 [hp/Jabfq/A
61. Molyneux P. The Use Of The Stable Free Radical Diphenylpicryl- Hydrazyl (Dpph) For Estimating Antioxidant Activity. 2004;26(2):10.
62. Yussif Nm. Vitamin C - Update Curr Uses Funct [Internet]. 2018.(cited 2019 Jul 3]; Available From: <Https://www.Intechopen.com/Books/Vitamin-C-An-Update-On-Current-Uses-And-Functions/Vitamin-C>
63. Mudnic I, Modun D, Brizic I, Vukovic J, Generalic I, Katalinic V, Et Al. Cardiovascular Effects In Vitro Of Aqueous Extract Of Wild Strawberry (*Fragaria Vesca*, L.) Leaves. *Phytomedicine*. 2009;16(5):462–9.
64. Aaby K, Ekeberg D, Skrede G. Characterization Of Phenolic Compounds In Strawberry (*Fragaria × Ananassa*) Fruits By Different Hplc Detectors And Contribution Of Individual Compounds To Total Antioxidant Capacity. *J Agric Food Chem*. 2007;55(11):4395–406.
65. Khan I, Tabassum S, Ikram M. Antioxidant, Cytotoxicity, Protein Kinase Inhibition And Antibacterial Activities Of *Fragaria × Ananassa* Leaves. *Pak J Pharm Sci*. 2018;7.
66. Andriani A, Prijanti Ar, Mudjihartini N, Jusman Swa. Dampak Hipoksia Sistemik Terhadap Malondialdehida, Glial Fibrillary Acidic Protein Dan

- Aktivitas Asetilkolin Esterase Otak Tikus. Ejournal Kedokt Indones [Internet]. 2016. (cited 2019 Jun 6);4(2): Available From: <Http://journal.ui.ac.id/Index.Php/Ejki/Article/View/6287>
67. Kaushal K, Singh H, Kant A. Hypoxia-Mediated Memory Dysfunction By Improving Neuronal Survival In. 2019;12(2):7.
68. Hypoxic And Ischemic Encephalopathy (Cited 2019 May 27):Available From: <Http://Neuropathology-Web.Org/Chapter2/Chapter2ahie.Html>
69. Ten Vs, Bradley-Moore M, Gingrich Ja, Stark Ri, Pinsky Dj. Brain Injury And Neurofunctional Deficit In Neonatal Mice With Hypoxic-Ischemic Encephalopathy. Behav Brain Res. 2003;145(1–2):209–19.
70. Sarada S, Titto M, Himadri P, Saumya S, Vijayalakshmi V. Curcumin Prophylaxis Mitigates The Incidence Of Hypobaric Hypoxia-Induced Altered Ion Channels Expression And Impaired Tight Junction Proteins Integrity In Rat Brain. J Neuroinflammation. 2015 (Cited 2019 May 27);12(1): Available From: <http://www.jneuroinflammation.Com/Content/12/1/113>