

DAFTAR PUSTAKA

- Anonim. 2016. About Rats. Carolina Pet-Rescue. www.cpr-nc.org/pet-care-info/rats. [17 Juni 2016].
- Alhassan, A.W., Bauchi, Z.M., Adebisi, S.S., Mabrouk, M.A., Sabo, A.M. 2009. The Effect of Early Administration of Glucocorticoids on Learning and Spatial Memory. *Niger J of Physiol Sci.* 24: 137-139.
- Altun, M., Bergman, E., Edstrom, E., Johnson, H., Ulfhake, B. 2007. Behavioral Impairments of The Aging Rats. *Physiol Behav.* 5: 911-923.
- Ambrosi, M., Cameron, N.R., Davis, B.G. 2005. Lectins: Tools for The Molecular Understanding of The Glycocode. *Journal The Royal Society of Chemistry.* 3: 1593-1608.
- Amin, S.N., Younan, S.M., Youssef, M.F., Rashed, L.A., Mohamady, I. 2013. A Histological and Functional Study on Hippocampal Formation of Normal and Diabetic Rats. *f1000research.* 9: 2-151
- Andreollo, N.A., Santos, E.F., Araujo, M.R., Lopes, L.R. 2012. Rat's Age Versus Human's Age: What is The Relationship? *Arg. Bras. Cir. Dig.* 25: 49-51.
- Arjadi, F., Soejono, S.K., Maurits, L.S., Pangestu, M. 2014. Jumlah Sel Piramidal CA3 Hipokampus Tikus Putih Jantan pada Berbagai Model Stres Kerja Kronik. *Majalah Kedokteran Bandung.* 46: 197-202.
- Basu, R., Breda, E., Oberg, A.L., Powell, C.C., Man, C.D., Basu, A., Vittone, J.L., Klee, G.G., Arora, P., Jensen, M.D., Toffolo, G., Cobelli, C., Rizza, R.A. 2003. Mechanisms of the Age-Associated Deterioration in Glucose Tolerance – Contribution of Alterations in Insulin Secretion, Action, and Clearance. *Diabetes.* 52: 1738-1748.
- Bherer, L., Erickson, K.I., Liu-Ambrose, T. 2013. A Review of The Effects of Physical Activity and Exercise on Cognitive and Brain Functions in Older Adults. *Journal of Aging Research.* 31: 1-8.
- Burke, S.N., Barnes, C.A. 2006. Neural Plasticity in The Ageing Brain. *Nature Publishing Group.* 7: 30-40.
- Caesar, M., Aertsen, A.D. 1991. Morphological Organization of Rat Hippocampal Slice Culture. *The Journal of Comparative Neurology.* 307: 37-106.
- Chen, J.K., Shen, C.R., Liu, C.L. 2010. N-Acetylglucosamine: Production and Applications. *Marine Drugs.* 8: 2493-2516.
- Davis, K.L., Charney, D., Coyle, J.T., Nemeroff, C. 2002. *Neuropsychopharmacology: The Fifth Generation of Progress.* American College of Neuropsychopharmacology.

Djuwita, I., Riyacumala, Mohamad, K., Prasetyaningsih, W.E., Nurhidayat. 2012. Pertumbuhan dan Sekresi Protein Hasil Kultur Primer Sel-Sel Serebrum Anak Tikus. *Jurnal Veteriner*. 13: 125-135.

Dobrossy, M.D., Drapeau, E., Aourousseau., Moal, M.L., Piazza, P.V., Abrous, N. 2003. Differential Effects of Learning on neurogenesis: Learning Increases or Decreases The Number of Newly Born Cells Depending on Their Birth Date. *Journal Molecular Psychiatry*. 8: 974-982.

Frandsen, R.D., Wilke, W.L., Fails, A.D. 2004. *Anatomy and Physiology of Farma Animal*. New York: Wiley-Blackwell.

Gage, G.J., Kipke, D.R., Shain, w. 2012. Whole Animal Perfusion Fixation for Rodents. *J Vis Exp*. 65: 35-64. .

Ganong, W.F. 2003. *Review of Medical Physiology*. San Fransisco: McGraw-Hill Companies.

Gao, X., Tao, W., Lu, W., Zhang, Q., Zhang, Y., Jiang, X., Fu, S. 2006. Lectin-conjugated PEG-PLA Nanoparticles: Preparation and Brain Delivery After Intranasal Administration. *Biomaterials*. 27: 3482-3490.

Gould, E., Tanapat, P., Hastingsm N.B., Shors, T.J. 1999. Neurogenesis in Adulthood: A Possible Role in Learning. *Trends in Cognitive Science*. 3: 186-192.

Gu, Y., Janoschka, S., Ge, s. 2012. *Neurogenesis and Hippocampal Plasticity in Adult Brain*. New York: Springer-Verlag Berlin Heidelberg.

Guyton, A.C., Hall, J.E. 2006. *Textbook of Medical Physiology*. Pennsylvania: Elsevier Saunders.

Hamid, R., Masood, A., Wani, I. H., Rafiq, S. 2013. Lectins: Proteins with Diverse Applications. *Journal of Applied Pharmaceutical science*. 2: 93-103.

Hashem, H.E., Elmasry, S.M., Eladi, M.A. 2010. Dentate Gyrus in Aged Male Albino Rats (Histological and Tau-Immunohistochemistry Study). *Egypt Journal Hitsology*. 33: 659-670.

Heryani, L.G.S., Suarsana, I.N. 2010. Pengamatan Jenis Glikokonjugat pada Sel Kelenjar Mandibula Babi Menggunakan Teknik Histokimia Lektin. *Buletin Veteriner Udayana*. 2: 59-67.

Hidalgo, A., Burgos, V., Viola, H., Medina, J., Argibay, P. 2006. Differential Expression of Glycans in The Hippocampus of Rats Trained on A Inhibitory Learning Paradigm. *Neuropathology*. 26: 501-507.

- Hiller-Sturmhofel, S., Swartzwelder, H.S. 2004. Alcohol's Effects on The Adolescent Brain – What can be learned from Animal Models. *Alcohol Research & Health*. 28: 213-221.
- Houwer, J.D., Barnes-Holmes, D., Moors, A. 2013. What is Learning? On the Nature and Merits of A Functional Definitions of Learning. *Psychon Bull Rev*. 4: 631-642.
- Ikeda, J., Kawakami, H., Asano, T., Takata, K., Hirano, H., Hirakawa, K. 1991. Distribution of Glycoconjugates in Gerbil Hippocampal Neurons – Histochemical Study with Lectins. *No to Shinkei*. 43: 539-543.
- Isaacson, R. 1982. *The Limbic System – 2nd Edition*. New York: Springer Science & Busines Media.
- Jessberger, S., Clark, R., Broadbent, N.J., Clemenson, G.D., Consiglio, A., Lie, D.C., Squire, L.R., Gage, F.H. 2009. Dentate Gyrus-Spesific Knockdown of Adult Neurogenesis Impairs Spatial and Object Recognition Memory in Adult Rats. *Learn Mem*. 29: 147-154.
- Julianti, R., Budiono, A. 2008. *Demensia*. Pekanbaru: FK UNRI.
- Kiernan, J.A. 1990. *Histological and Histochemical Methods*. United States: Pergamon Press.
- Kiernan, J.A. 2009. *Barr's The Human Nervous System – An Anatomical Viewpoint*. New York: Wolters Kluwer – Lippincot Williams & Wilkins.
- Konopka, J.B., 2012. N-Acetylglucosamine Functions in Cell Signaling. *Journal Hindawi*. 23: 1-15.
- Kuhn, H.G. 1996. Neurogenesis in t he Dentate Gyrus of the Adult Rat. *Journal of Neuroscience*. 16: 2027-2033.
- Lynch, G., Rex, C.S., Gall, C.M. 2006. Synaptic Plasticity in Early Aging. *Aging Research Reviews*. 5: 255-280.
- MacDougall, M.J., Howland, J.G. 2013. Acute Stress and ippocampal Output: Exploring Dorsal CA1 and Subicular Synaptic Plasticity Simultaneously in Anesthetized Rats. *Physiological Reports*. 1: 1-10.
- Makiyah, S.N.N. 1999. Pengaruh Pemberian Alkohol secara Akut terhadap Memori pada Tikus (*Rattus norvegicus*). *Jurnal IDEA*. 5: 4-29.
- Mayford, M., Siegelbaum, S.A., Kandel, E.R. 2012. Synapses and Memory Storage. *Cold Spring Harb Perspect Biol*. 4: 1-18.
- McIntyre, L.J., Quarles, R.H., Brady, R.O. 1979. Lectin-Binding Proteins in Central-Nervous-System Myelin. *Biochemistry Journal*. 183: 205-212.

- Murray, R.K., Granner, D.K., Mayes, P.A., Rodwell, V.W. 2003. *Harper's Illustrated Biochemistry – 26th Edition*. New York: McGraw-Hill.
- Narwanto, I.M., Aswin, S., Mustofa. 2007. Pengaruh Pemberian Etanol Secara Kronik terhadap Jumlah Sel Piramidal di CA1 Hippokampus Tikus (*Rattus norvegicus*) Remaja. *Jurnal Anatomi Indonesia*. 2: 29-33.
- Novelina, S., Satyaningtjas, A.S., Agungpriyono, S., Setijanto, H., Sigit, K. 2010. Morfologi dan Histokimia Kelenjar Mandibularis Walet linchi (*Collocalia linchi*) Selama Satu Musim Berbiak dan Bersarang. *Jurnal Kedokteran Hewan*. 4: 194-202.
- Paula, Y.N., Budipitojo, T. 2009. Identifikasi Glikokonjugat Penghantar Bau dan Distribusinya pada Epitelium Olfaktorius Hidung Kalong Kapauk (*Pteropus vampyrus*) dan Lasiwen Diegnan (*Myotis horsfieldii*). *Jurnal Sain Vet*. 27: 28-34.
- Paxinos, G. 2004. *The Rat Nervous System*. Amsterdam: Elsevier Academic Press.
- Pohle, W., Popov, N., Schulzeck, S., Matthies, H. 1982. Distribution of Hippocampal Glycoproteins as Demonstrated in Rats by Lectin Binding and Autoradiography After Intraventricular Injections of Labelled Fucose, N-Acetyl-Glucosamine and Mannose. *Neuroscience*. 7: 2715-2724.
- Ramadhan, P.A., Narwanto, M.I., Sofiana, K.D. 2014. Efek Ekstrak Teh Hijau (*Camellia sinensis*) terhadap Memori Kerja Spasial Tikus Wistar (*Rattus norvegicus*) Remaja yang Diinduksi Etanol. *e-Journal Pustaka Kesehatan*. 2: 29-13.
- Rhoades, R.A., Tanner, G.A. 2003. *Medical Physiology 2nd*. New York: Lippincott Williams & Wilkins.
- Saladin. 2003. *Anatomy & Physiology: The Unity of Form and Function, 3rd Edition*. United States: McGraw-Hill Companies.
- Seifhosseini, S., Jahanshahi, M., Moghimi, A., Aazami, N.S. 2011. The Effect of Scopolamine on Avoidance Memory and Hippocampal Neurons in Male Wistar Rats. *Basic and Clinical Science*. 3: 9-15.
- Sengupta, P. 2013. The Laboratory Rat: Relating Its Age With Human's. *International Journal Preventive Medicine*. 4: 624-630.
- Silbernagi, S., Despopoulos, A. 2009. *Color Atlas of Physiology 6th*. New York: Thieme.
- Spruston, N. 2008. Pyramidal Neurons: Dendritic Structure and Synaptic Integration. *Nature Publishing Group*. 9: 206-221.
- Squire, L.R., Cave, C.B. 1991. The Hippocampus, Memory, and Space. *Hippocampus*. 1: 269-271.

- Sunarno, Manalu, W., Nastiti, K., Agungpriyono, D.R. 2012. Pengoptimalan Kinerja Motorik pada Penuaan Fisiologis dan Penuaan Akibat Stres Oksidatif dengan Alanin-Glutamin Dipeptida dan Hubungannya dengan Perbaikan Fungsi Hipokampus. *Jurnal Kedokteran Hewan*. 6: 56-60.
- Susanto, Y., Djojosoewarno, Rosnaeni. 2009. Pengaruh Olahraga Ringan terhadap Memori Jangka Pendek pada Wanita Dewasa. *JKM*. 8: 144-150.
- Tarragon, E., Lopez, L., Ros-bernal, F., Yuste, J.E., Ortiz-cullera, V., Martin, E., Schenker, E., Aujard, F., Border, R., Richardson, J.C., Herrero, M.T. 2012. The Radial Arm *Maze* (RAM) for The Evaluation of Working and Reference Memory Deficits in The Diurnal Rodent *Octodon degus*. *Proceedings of Measuring Behavior*. 28: 98-100.
- Treuting, P.M., Dintzis, S.M. 2012. *Comparative Anatomy and Histology: A Mouse and Human Atlas*. Amsterdam: Elsevier.
- Tsien, J.Z., Huerta, P.T., Tonegawa, S. 1996. The Essential Role of Hippocampal CA1 NMDA Receptor-Dependent Synaptic Plasticity in Spatial Memory. *Cell*. 87: 1327-1338.
- Turano, E. 2015. *Thesis: Role's of Chitin in Alzheimer's Disease: a new Cytotoxic Pathway*. University of Merona.
- Wade, C. Tavis, C. 2008. *Psikologi: Edisi ke-9 Jilid 1*. Jakarta: Erlangga.
- Walling, S.G., Brown, R.A., Miyasaka, N., Yoshihara, Y., Harley, C.W. 2012. Selective Wheat Germ Agglutinin (WGA) Uptake in The Hippocampus from The Locus Coeruleus of Dopamine- β -hydroxylase-WGA Transgenik Mice. *Frontiers in Behavioral Neuroscience*. 6: 1-8.
- Wilson, A. 2005. *Hippocampal Place Cells as a Window into Cognitive Aging*. Kuopio: Kuopion Yliopisto.
- Whishaw, L.Q., Haun, F., Kolb, B. 1999. *Analysis of Behavior in Laboratory Rodents*. Pennsylvania: University of Quakertown.