

DAFTAR PUSTAKA

- Avellino, A.M., Hart, D., Dailey, A.T., MacKinnon, M., Ellegala, D., Kliot, M. 1995. Differential macrophage response in the peripheral and central nervous system during Wallerian degeneration of axons. *Exp. Neurol.* 136: 183-98
- Bendszus, M., Stoll, G. 2003. Caught in the act: in vivo mapping of macrophage infiltration in nerve injury by magnetic resonance imaging. *J. Neurosci.* 23 (34): 10892-6
- Burnett, M.G., Zager, E.L. 2004. Pathophysiology of peripheral nerve injury: a brief review. *Neurosurg. Focus.* 16 (5): 1-7
- Decosterd, I., Woolf, C.J. 2000. Spared nerve injury: an animal model of persistent peripheral neuropathic pain. *Pain.* 87: 149-58
- Gaudet, A.D., Popovich, P.G., Ramer, M.S. 2011. Wallerian degeneration: gaining perspective on inflammatory events after peripheral nerve injury. *J. Neuroinflammation.* 8 (110): 1-13
- Gordon, S. 2002. Alternative activation of macrophages. *Nat. Rev. Immunol.* 3: 23-35
- Hall, S. 2005. The response to injury in the peripheral nervous system. *J. Bone Joint Surg. Br.* 87 (10): 1309-19
- Huebner, E.A., Strittmatter, S.M. 2009. Axon regeneration in the peripheral and central nervous systems. *Results Probl. Cell Differ.* 48: 339-51
- Kigerl, K.A., Gensel, J.C., Ankeny, D.P., Alexander, J.K., Donnelly, D.J., Popovich, P.G. 2009. Identification of two distinct macrophage subsets with divergent effects causing either neurotoxicity or regeneration in the injured mouse spinal cord. *J. Neurosci.* 9 (43): 13435-44
- Kiguchi, N., Kobayashi, Y., Kishioka, S. 2012. Chemokines and cytokines in neuroinflammation leading to neuropathic pain. *Curr. Opin. Pharmacol.* 12: 55-61
- Kuhlmann, T., Bitsch, A., Stadelmann, C., Siebert, H., Bruck, W. 2001. Macrophages are eliminated from the injured peripheral nerve via local

- apoptosis and circulation to regional lymph nodes and the spleen. *J. Neurosci.* 21 (10): 3401-8
- Laskin, D.L., 2009. Macrophages and inflammatory mediators in chemical toxicity: a battle of forces. *Chem. Res. Toxicol.* 22 (8): 1376–85
- Leskovar, A., Moriarty, L.J., Turek, J.J., Schoenlein, I.A., Borgens, R.B. 2000. The macrophage in acute neural injury: changes in cell numbers over time and levels of cytokine production in mammalian central and peripheral nervous systems. *J. Exp. Biol.* 203: 1783-95
- Moalem-Taylor, G., Austin P.J. 2010. The neuro-immune balance in neuropathic pain: involvement of inflammatory immune cells, immune-like glial cells and cytokines. *J. Neuroimmunol.* 229: 26-50
- Moon, M.L., McNeil, L.K., Freund, G.G. 2011. Macrophages make me sick: how macrophage activation states influence sickness behavior. *Psychoneuroendocrinology.* 36: 1431-40
- Mosser, M.D. 2003. The many faces of macrophage activation. *J. Leukoc. Biol.* 73: 209-12
- Mueller, M., Leonhard, C., Wacker, K., Ringelstein, E.B., Okabe, M. 2003. Macrophage response to peripheral nerve injury: the quantitative contribution of resident and hematogenous macrophages. *Lab. Invest.* 83 (2): 175-85
- Mueller, M., Wacker, K., Ringelstein, E.B., Hickey, W.F., Imai, Y., Kiefer, R. 2001. Rapid response of identified resident endoneurial macrophage to nerve injury. *Am. J. Pathol.* 159 (6): 2187-97
- Nadeau, S., Filali, M., Zhang, J., Kerr, B.J., Rivest, S., Soulet, D., et al. 2011. Functional recovery after peripheral nerve injury is dependent on the pro-inflammatory cytokines IL-1 β and TNF: implications for neuropathic pain. *J. Neurosci.* 31 (35): 12533–42
- Omura, T., Omura, K., Sano, M., Sawada, T., Hasegawa, T., Nagano, A. 2005. Spatiotemporal quantification of recruit and resident macrophages after crush nerve injury utilizing immunohistochemistry. *Brain Res.* 1057: 29-36
- Perrin, F.E., Lacroix, S., Aviles-Trigueros, M., David, S. 2005. Involvement of monocyte chemoattractant protein-1, macrophage inflammatory protein-1 α and interleukin-1 β in Wallerian degeneration. *Brain.* 128: 854-66

- Perry, H., Brown, M.C., Gordon, S. 1987. The macrophage response to central and peripheral nerve injury: a possible role for macrophages in regeneration. *J. Exp. Med.* 165: 1218-23
- Piccinini, A.M., Midwood, K.S. 2010. DAMPening inflammation by modulating TLR signalling. *Mediators Inflamm.* 2010: 1-21
- Quan, D., Bird, S.J. 1999. Nerve conduction studies and electromyography in the evaluation of peripheral nerve injuries. *UPOJ.* 12: 45-51
- Rosenberg, A.F., Wolman, M.A., Franzini-Armstrong, C., Granato, M. 2012. In vivo nerve-macrophage interactions following peripheral nerve injury. *J. Neurosci.* 32 (11): 3898-909
- Rotshenker, S. 2011. Wallerian degeneration: the innate-immune response to traumatic nerve injury. *J. Neuroinflammation.* 8 (109): 1-14
- Shamash, S., Reichert, F., Rotshenker, S. 2002. The cytokine network of Wallerian degeneration: tumor necrosis factor- α , interleukin-1 α , and interleukin-1 β . *J. Neurosci.* 22 (8): 3052-60
- Shubayev, V.I., Angert, M., Dolkas, J., Campana, M., Palenscar, K., Myers, R.R. 2006. TNF- α induced MMP-9 promotes macrophages recruitment into injured peripheral nerve. *Mol. Cell. Neurosci.* 31: 407-15
- Stoll, G., Jander, S., Myers, R.R. 2002. Degeneration and regeneration of the peripheral nervous system: from Augustus Waller's observations to neuroinflammation. *J. Peripher. Nerv. Syst.* 7: 13-27
- Tortora, G.J., Derrickson, B.H. 2009. Principles of anatomy and physiology 12th ed, John Wiley & Sons, Hoboken, pp 415-59.
- Taskinen, H., Roytta, M. 1997. The dynamics of macrophage recruitment after nerve transection. *Acta Neuropathol.* 93: 252-9
- Vargas, M.E., Barres, B.A. 2007. Why is Wallerian degeneration in the CNS so slow?. *Annu. Rev. Neurosci.* 30: 153-79
- Wang, J.T., Medress, Z.A., Barres, B.A. 2012. Axon degeneration: molecular mechanisms of a self-destruction pathway. *J. Cell Biol.* 196 (1): 7-18
- Wynn, T.A., Murray, P.J. 2012. Protective and pathogenic functions of macrophage subsets. *Nat. Rev. Immunol.* 11 (11): 723-37

- Ydens, E., Cauwels, A., Asselbergh, B., Goethals, S., Peeraer, L., Lornet, G., *et al.* 2012. Acute injury in the peripheral nervous system triggers an alternative macrophage response. *J. Neuroinflammation*. 9 (176): 1-17
- Zhang, G., Hoffman, P.N., Sheikh, K.A. 2014. Axonal degeneration in dorsal columns of spinal cord does not induce recruitment of hematogenous macrophages. *Exp Neurol*. 252: 57-62
- Zhang, X., Mosser, D.M. 2008. Macrophage activation by endogenous danger signal. *J. Pathol*. 214 (2): 161-78