

參考文獻

1. Wendy E. Minke, Claudia Roach, Wim G. J. Hol, Christophe L. M. J. Verlinde. Structure-based exploration of the ganglioside GM1 binding sites of *Escherichia coli* heat-labile enterotoxin and cholera toxin for the discovery of receptor antagonists. *Biochemistry*, **38**, 5684-5692 (1999).
2. J. Holmgren, and A. M. Svennerholm, *Gastroenterology Clinics of North America* **21**, 283-302 (1992).
3. *The World Health Report 1996* World Health Organization, Geneva, Switzerland (1996).
4. E. A. Merritt, and W. G. J. Hol, *Curr. Opin. Struct. Biol.* **5**, 165-171 (1995).
5. W. I. Lencer, C. Constable, S. Moe, M. G. Jobling, H. M. Webb, S. Ruston, J. L. Madara, T. R. Hirst, and R. K. Holmes, *J. Biol. Chem.* **131**, 951-962 (1995).
6. T. R. Hirst, in *Bacterial toxins & virulence factors in disease* (Moss, J., Vaughan, M., Igleweski, B., and Tu, Eds.) pp 123-184, Marcel Dekker, New York (1995).
7. C. A. King, and W. E. Van Heyningen, *J. Infect. Dis.* **127**, 639-647 (1973).
8. R. A. Finkelstein, M. Boesman, S. H. Neoh, M. K. LaRue, and R. Delaney, *J. Immunol.* **113**, 145-150 (1974).
9. S. Kassis, J. Hagmann, P. H. Fishman, P. P. Chang, and J. Moss, *J. Biol. Chem.* **257**, 12148-12152 (1982).
10. P. I. H. Bastiaens, I. V. Majoul, P. J. Verveer, H. D. Soling, and T. M. Jovin, *EMBO J.* **15**, 4246-4253 (1996).
11. M. Field, *Arch. Surg.* **128**, 273-278 (1993).
12. Donald Voet; Judith G. Voet, Biochemistry, 2th, John Wiley & Sons, Inc; p

283 (1995).

13. <http://www-ermm.cbcu.cam.ac.uk/02005069h.htm#3>;
<http://www.ualberta.ca/~mmi/faculty/garmstrong/405b.html>
14. <http://www.bact.wisc.edu/Bact330/lecturecholera>
15. T. Ishizaka, K. Ishizaka and H. Tomio ka, Release of histamine and slow reacting substance of anaphylaxis (SRS-A) by IgE-anti-IgE reactions on monkey mast cells, *J. Immunol.*, **108**, 513-520 (1972).
16. K. F. Austen, Biologic implications of structural and functional characteristics of the chemical mediators of immediate type hypersensitivityy, *Harvey Lect.*, **73**, 93-161 (1979).
17. G. K. Adams and L. M. Lichtenstein, In vitro studies of antigen-induced bronchospasm: effect of antihistamine and SRS-A antagonist on response to sensitized guinea pig and human airways to antigen, *J. Immunol.*, **122**, 555-562 (1979).
18. L. B. Schwartz and K. F. Austen, Structural and function of the chemical mediators of mast cells, *Prog. Allergy*, **34**, 271-321 (1984).
19. A. G. Semb, J. Vage and O. D. Mjos, Oxygen free radical producing leukocytes cause functional depression of isolated rat hearts: role of leukotrienes, *J. Mol. Cell. Cardiol.*, **22**, 555-563 (1990).
20. D. Harman and L. H. Piette, Free radical theory of aging: free radical reactions in serum, *J. Gerontol.*, **21**, 560-565 (1966).
21. D. A. Parks and D. N. Granger, Ischemia-induced vascular changes: role of xanthine oxidase and hydroxyl radicals, *Am. J. Physiol.*, **245**, G285-G289 (1983).
22. J. M. McCord, Oxygen-derived free radicals in postischemic tissue injury, *N. Engl. J. Med.*, **312**, 159-163 (1985).har
23. P. R. Kviety, S. M. Smith, M. B. Grisham and E. A. Manaci, 5-Aminosalicylic acid protects against ischemia/reperfusion-induced gastric

- bleeding in the rat, *Gastroenterology*, **94**, 733-738 (1988).
24. J. M. McCord, Free radicals and inflammation: protection of synovial fluid by superoxide dismutase, *Science*, **185**, 529-531 (1974).
 25. R. E. Allen, D. R. Blake, N. B. Nazhat and P. Jones, Superoxide radical generation by inflamed human synovium after hypoxia, *Lancet*, **2**, 282-283 (1989).
 26. P. A. Craven, J. Pfanzel, R. Saito and F. R. DeRubertis, Action of sulfasalazine and 5-aminosalicylic acid as reactive oxygen scavengers in the suppression of bile acid-induced increases in colonic epithelial cell loss and proliferative activity, *Gastroenterology*, **92**, 1998-2008 (1987).
 27. M. B. Grisham and D. N. Granger, Neutrophil-mediated mucosal injury: Role of reactive oxygen metabolites, *Dig. Dis. Sci.*, **33** (3 Suppl), 6S-15S (1988).
 28. G. Weissmann, J. E. Smolen and H. M. Korchak, Release of inflammatory mediators from stimulated neutrophils, *N. Engl. J. Med.*, **303**, 27-34 (1980).
 29. M. Davies, A. J. Barrett, J. Travis, E. Sanders and G. A. Coles, The degradation of human glomerular basement membrane with purified lysosomal proteinases: evidence for the pathogenetic role of the polymorphonuclear leukocyte in glomerulonephritis, *Clin. Sci. Mol. Med.*, **54**, 233-240 (1978).
 30. H. Menninger, R. Putzier, W. Mohr, D. Weissinghage and K. Tillmann, Granulocyte elastase at the site of cartilage erosion by rheumatoid synovial tissue, *J. Rheumatol.*, **39**, 145-156 (1980).
 31. J. Saklatvala and A. J. Barrett, Identification of proteinases in rheumatoid synovium: detection of leukocyte elastase, cathepsin G and another serine proteinase, *Biochem. Biophys. Acta.*, **615**, 167-177 (1980).
 32. M. Mallat and B. Chamak, Brain macrophages: neurotoxic or neurotrophic effector cells, *J. Leukoc. Biol.*, **56**, 416-422 (1994).

33. J. Gehrman, Y. Matsumoto and G. W. Kreutzberg, Microglia: intrinsic immunoeffector cell of the brain, *Brain Res. Rev.*, **20**, 269-287 (1995).
34. F. M. Hofman, D. R. Hinton, K. Johnson and J. E. Merrill, Tumor necrosis factor identified in multiple sclerosis brain, *J. Exp. Med.*, **170**, 607-612 (1989).
35. J. Rogers, J. Luber-Narod, S. D. Styren and W. H. Civin, Expression of immune system-associated antigens by cells of the human central nervous system: relationship to the pathology of Alzheimer's disease, *Neurobiol. Aging*, **9**, 339-349 (1988).
36. P. L. McGeer, S. Itagaki, B. E. Boyes and E. G. McGeer, Reactive microglia are positive for HLA-DR in the substantia nigra of Parkinson's and Alzheimer's disease brains, *Neurology*, **38**, 1285-1291 (1988).
37. D. W. Dickson, L. A. Mattiace, K. Kure, K. Hutchins, W. D. Lyman and C. F. Brosnan, Microglia in human disease, with an emphasis on acquired immune deficiency syndrome, *Lab. Invest.*, **64**, 135-156 (1991).
38. P. J. Gebicke-Haerter, J. Bauer, A. Schobert and H. Northoff, Lipopolysaccharide free conditions in primary astrocyte cultures allow growth and isolation of microglia cells, *J. Neurosci.*, **9**, 183-194 (1989).
39. L. Minghetti, A. Nicolini, E. Polazzi, C. Crfinon, J. Maclouf and G. Levi, Inducible nitric oxide synthase expression in activated rat microglial cultures is down-regulated by exogenous prostaglandin E2 and by cyclooxygenase inhibitors, *Glia*, **19**, 152-160 (1997).
40. C. C. Chao, S. Hu, T. W. Molitor, E. G. Shaskanand P. K. Peterson, Activated microglia mediate neuronal cell death injury via a nitric oxide mechanism, *J. Immunol.*, **149**, 2736-2741 (1992).
41. J. E. Merrill, L. J. Ignarro, M. P. Sherman, J. Melinek and T. E. Lane, Microglial cell cytotoxicity of oligodendrocytes is mediated through nitric oxide, *J. Immunol.*, **151**, 2132-2141 (1993).
42. L. Meda, M. A. Cassatella, G. I. Szendrei, L. Jr. Otvos, P. Baron, M. Villalba, D. Ferrari and F. Rossi, Activation of microglial cells by

- β -amyloid protein and interferon-?, *Nature*, **374**, 647-650 (1995).
43. W. Solbach, H. Moll and M. Rollinghoff, Lymphocytes play the music but the macrophages cells the tune, *Immunol. Today*, **12**, 4-6 (1991).
 44. S. L. Kunkel, S. W. Chensue and S. H. Phan, Prostaglandins as endogenous mediators of interleukin 1 production, *J. Immunol.*, **136**, 186-192 (1986).
 45. B. Beutler and A. Cerami, Tumor necrosis factor, cachexia, shock, and inflammation: a common mediator, *Ann. Rev. Biochem.*, **57**, 505-518 (1988).
 46. A. H. Ding, C. F. Nathan and D. J. Stuehr, Release of reactive nitrogen intermediates and reactive oxygen intermediates from mouse peritoneal macrophages: comparison of activating cytokines and evidence for independent production, *J. Immunol.*, **141**, 2407-2412 (1988).
 47. K. J. Tracey, Y. Fong, D. G. Hesse, K. R. Manogue, A. T. Lee, G. C. Kuo, S. F. Lowry and A. Cerami, Anti-cachectin/TNF monoclonal antibodies prevent septic shock during lethal bacteraemia, *Nature*, **330**, 662-664 (1987).
 48. C. Thierermann and J. R. Vane, Inhibition of nitric oxide synthesis reduces the hypotension induced by bacterial lipopolysaccharides in the rat *in vivo*, *Eur. J. Pharmacol.*, **182**, 591-595 (1990).
 49. T. J. Williams and M. J. Peck, Role of prostaglandin-mediated vasodilation in inflammation, *Nature*, **270**, 530-532 (1977).
 50. 張瓊云, 6, 7, 4'-取代異黃烷苯? 及其相關化合物之合成與生理活性, 中國醫藥學院藥物化學研究所博士論文(2001)。
 51. 李芳裕, 2-甲基-5-芳族基 哌類衍生物之合成及其生理活性之探討, 中國醫藥學院藥物化學研究所碩士論文(1989)。
 52. L. F. Tietze; Th. Eicher, Reactions and syntheses in the organic chemistry laboratory; 1st edition ; University Science Books (1989).
 53. Hiroshi Oi, Daisuke Matsuura, Masami Miyake, Masamitu Ueno, Izumi Takai, Takeshi Yamamoto, Masayoshi Kubo, Joel Moss, and Masatoshi

- Noda. Identification in traditional herbal medications and confirmation by synthesis of factors that inhibit cholera toxin-induced fluid accumulation. *PNAS*, **99**, 3042-3046 (2002).
54. J. P. Wang, S. L. Raung, Y. H. Kuo and C. M. Teng, Daphnoretin-induced respiratory burst in rat neutrophils is probably mainly through protein kinase C activation, *Eur. J. Pharmacol.*, **288**, 341-348 (1995).
 55. M. Markert, P. C. Andrews, B. M. Babior, Measurement of O₂- production by human neutrophils. The preparation and assay of NADPH oxidase-containing particles from human neutrophils, *Methods Enzymol.*, **105**, 358-365 (1984).
 56. A. C. Newby, Role of adenosine deaminase, ecto-(5'-nucleo-tidase) and ecto-(non-specific phosphatase) in cyanide-induced adenosine monophosphate catabolism in rat polymorphonuclear leucocytes, *Biochem. J.*, **186**, 907-918 (1980).
 57. A. J. Barrett, "A Laboratory Handbook", Dingle, J. T. ed. (Elsevier/North-Holland, Amsterdam), 118-120 (1972).
 58. D. R. Absolom, Basic methods for the study of phagocytosis, *Methods Enzymol.*, **132**, 95-179 (1986).
 59. J. P. Wang, S. L. Raung, M. F. Hsu and C. C. Chen, Inhibition by gomisin C (a lignan from *Schizandra chinensis*) of the respiratory burst of rat neutrophils, *Br. J. Pharmacol.*, **113**, 945-953 (1994).
 60. B. Goldberg and A. Stem, The role of the superoxide anion as a toxic species in the erythrocyte, *Arch. Biochem. Biophys.*, **178**, 218-225 (1977).
 61. D. E. McClain, M. A. Donlon, S. Chock and G. N. Catravas, The effect of calmodulin on histamine release in the rat peritoneal mast cell, *Biochem. Biophys. Acta.*, **763**, 419 (1983).
 62. T. H. P. Hanahae, Mechanism of histamine release from rat isolated peritoneal mast cells by dextran: the role of immunoglobulin E., *Agents Action*, **14**, 468 (1984).

63. A. R. Johnson and E. G. Erdos, Release of histamine from mast cell by vasoactive peptides, *Proc. Soc. Exp. Biol. Med.*, **142**, 1252-1256 (1973).
64. R. Hakanson and A. L. Ronnberg, Improved fluorometric assay of histamine, *Analyst Biochem.*, **60**, 560-567 (1974).
65. S. B. Corradin, J. Manuel, S. D. Donini, E. Quattrocchi and P. Ricciardi-Castagnoli, Inducible nitric oxide synthase activity of cloned murine microglial cells, *Glia* 7, 255-262 (1993).
66. L. Minghetti, A. Nicolini, E. Polazzi, C. Creminon, J. Maclouf and G. Levi, Inducible nitric oxide synthase expression in activated rat microglial cultures is down-regulated by exogenous prostaglandin E2 and by cyclooxygenase inhibitors, *Glia* 19, 152-160 (1997).