

REFERENCES

- Ahmed, T., P. Eyre, AJ. Janusziewicz, and A. Wanner. 1980. "Role of H₁ and H₂ receptor, J Appl Physiol., 49 : 826.
- Akcasu, A. 1959. "The physiologic and pharmacologic characteristics of the tracheal muscle", Arch Int Pharmacodyn Ther., CXXII : 201.
- Amdur, M.O. and J. Mead. 1958. "Mechanics of respiration in unanesthetized guinea-pigs", Am J Physiol., 192 : 364.
- Andersson, R.G. and K.B. Nilssen. "1977." Role of cyclic nucleotides : metabolism and mechanical activity in smooth muscle". In : Stephens N, ed. Biochemistry of smooth muscle. Baltimore : University Park Press : 263.
- Andersson, P. and H. Persson. 1975. "Atropine modification of the pulmonary effects of chemical mediators in the guinea-pig", J Appl Physiol., 38 : 834.
- Barnes, P.J. 1983. "Pathogenesis of asthma : a review", J of the Royal Society of Medicine., 76 : 580.
- Barnes, P.J. 1984. "The third nervous system in the lung : Physiology and clinical perspectives.", 39 : 561.
- Barnes, P.J. 1984. "Bata-adrenoceptors in lung tissue" In : Bata-adrenoceptor in asthma. J. Morley (E ed). Academic Press, London : 67.
- Barnes, P.J. 1985. "Mediators and asthma", Br J Hosp Med., 34 (6) : 339.

- Barnes, P.J. 1986. "Neural control of human airways in "Health and disease", Am Rev Respir Dis., 134 : 1289.
- Barnes, P.J. 1986. "Asthma therapy : basic mechanism", Eur J Resp Dis., Suppl 144 : 217.
- Barnes, P.J. 1987. "Cholinergic control of airway smooth muscle" IN: Airway smooth muscle and disease workshop. Am Rev Res Dis., 136 (4 part 2) : 542.
- Baron, C.B., M. Cunningham, J.F. Strauss and R.F. Coburn. 1984. "Pharmacomechanical coupling in smooth muscle may involve phosphatidylinositol metabolism", Proc Nalt Acad Sci USA., 81 : 6899.
- Bernstein, L. 1985. "Treatment decisions of asthma based on a paradigm of clinical severity. "IN : Asthma' 84 : pharmacologic update., J Allergy clin Immunol., 76 (2 part 2) : 359.
- Boushey, H.A., M.J. Holtzman, J.R. Sheller and J.A. Nadel. 1980. "Bronchial hyperreactivity., Am. Rev. Respir Dis., 121 : 389.
- Burgen, ASV and L Spero. 1968. "The action of acetylcholine and other drugs on the efflux of potassium and rubidium from smooth muscle of guinea-pig intestine", Br J Pharmacol., 34 : 99.
- Burns, J.W. and J.E. Doe. 1978. "A comparison of drug-induced responses on rat tracheal, bronchial and lung strip in vitro preparations", Br J Pharmacol., 64 : 71.
- Church, M.K. and S.T. Holgate. 1986. "Adenosine and asthma", Trends Pharmacol Sci., 7 : 49.

- Clark, RAF., JI. Gallin and AP. Kaplan. 1978. "The selective eosinophil chemotactic activity of histamine", J Exp Med., 142 : 1462.
- Curry, J.J. 1947. "Comparative action of acetyl-beta-methyl choline and histamine on the respiratory tract in normals, patients with hay fever, and subjects with bronchial asthma", J Clin Invest., 26 : 430.
- Cuss, FM., CM. Dixon and PJ. Barnes. 1986. "Effects of inhaled platelet activating factor on pulmonary function and bronchial responsiveness in man", Lancet., ii : 189.
- Dahlén, S.E., P. Hedqvist, S. Hammargtrom and B. Samuelsson. 1980. "Leukotrienes are potent bronchoconstrictors of human bronchi", Nature., 288 : 484.
- Drazen, J.M. and K.F. Austen. 1975. "Atropine modification of the pulmonary effects of chemical mediators in the guinea-pig". J Appl Physiol., 38 : 834.
- Drazen, JM., CS. Venugopalan and NA. Soter. 1978. " H_2 receptor mediated inhibition of immediate type hypersensitivity reaction in vivo". Am Rev Respir Dis., 117 : 479.
- Durham, SR., TH. Lee, O. Cromwell, RJ. Shaw, TG. Merrett, J. Merret, P. Cooper, AB. Kay. 1984. "Immunologic studies in allergen-induced late-phase asthmatic reactions", J Allergy Clin Immunol., 74 : 49.
- Fanta, C.H. and JM. Drazen. 1983. "Calcium blockers and bronchoconstriction" Am Rev Respir Dis., 127 : 673.
- Feldman, N.T., E.R. McFadden. 1977. "Asthma therapy old and new", Medical clinics of North America., 61 (6) : 1231.

- Ferrari, M. 1974. "Effect of papaverine on smooth muscle and their mechanisms", Pharmacological Research Communications., 6(2) : 97.
- Fredholm, BB. 1980. "Are the actions of methylxanthine due to antagonism of adenosine?", Trends Pharmacol Sci., 1 : 129.
- Fuller, R.W., C.M.S. Dixon and P.J. Barnes. 1985. "Bradykinin-induced bronchoconstriction in man", Clin Sci., 68 : 35 P.
- George, R.B., D.K. Payne. 1984. "Anticholinergic, Cromolyn, and other occasionally useful drugs", clinics in chest medicine., 5(4) : 685.
- George, W.J., JB. Polson, AG. O'Toole and ND. Goldberg. 1970. "Elevation of guanosine 3, 3' cyclic phosphate in rat heart after perfusion with acetylcholine", Proc Natl Acad Sci USA , 66 : 398.
- Grandordy, B.M., P.M. Cuss, A.S. Sampson, J.B. Pulmer and P.J. Barnes. 1986. "Phosphatidylinositol response to cholinergic agonists in airway smooth muscle : relationship to contraction and muscarinic receptor occupancy". J Pharmacol Exp Ther., 238 (1) : 273.
- Gross, N.J. and M.S. Skorodin. 1984. "Antimuscarinic bronchodilators", Am Rev Respir Dis., 129 : 856.
- Hardy, CC., C. Robinson, AE. Tattersfield, ST. Holgate. 1984. "The bronchoconstrictor effect of inhaled prostaglandin D₂ in normal and asthmatic men", N England Med., 331(4) : 209.
- Hashimoto T., M. Hirata, Y. Ito. 1985. A role for inositol 1, 4, 5-triphosphate in the initiation of agonist-induced contractions of dog tracheal smooth muscle", Br J Pharmacol., 86:191.

- Hedqvist, P., S.E. Dahlen and J. Bjork. 1982. "Pulmonary and vascular actions of leukotrienes", Adv Prostaglandin Thrombox leukotr Res., 9:187.
- Hogg, JC. 1982. "The pathophysiology of asthma" IN: Advances in Assessment and Therapy of Asthma., Chest., 82(Suppl):85.
- Hogg, JC., PD. Pare, RC. Boucher, MC. Michoud, G.Guerzin, and LA. Munoz. 1977. In Asthma II:Physiology, Immunopharmacology and treatment. Ed KF Austen and L.M. Lichtenstein. Academic Press, New York, P 1-14.
- Holgate, ST. 1986. "The pathophysiology of bronchial asthma and targets for its drug treatment", Agents and Actions., 18:281.
- Hyman, Alo, EN. Spannhake and PJ. Kadawitz, 1978. "Prostaglandins and the lung", Am Rev Resp Dis., 117:111.
- Isles, A.F., SM. Macleod and H. Levison. 1982. "Theophylline : new thoughts about an old drug", Chest., 82:495.
- Jafferjr, SS. and RH. Michell. 1976. "Muscarinic cholinergic stimulation of phosphoinositol turnover in longitudinal smooth muscle of guinea-pig ileum", Biochem J., 154:653.
- Jamieson, D. 1962. "A method for the quantitation estimation of drugs on the isolated intact trachea", Brit. J. Pharmacol., 19:286.
- Kaliner, M. 1985. "Mechanism of glucocorticosteroid action in bronchial asthma" IN:Asthma '84: Pharmacologic update. J Allergy clin Immunol., 76(2 part 2):321.
- Kansenalak, S., 1985. "Relaxant Effect of 5, 7-Dihydroxyflvanone on Tracheo-bronchial Muscle", Unpublished M.Sc. thesis, Chiang Mai university, Thailand.

Kay, A.B. 1982. "Basic mechanism in allergic asthma. " Eur. J. Respir. Dis., 63 (suppl 122):9.

Kay, AB. and TH. Lee. 1982. "Neutrophil chemotactic factor of anaphylaxis", J Allergy Clin Immunol., 70:317.

Kiatiyungsulee, N., M. Wangmad, Swasdimongkol. 1979. "การศึกษาทางเภสัชวิทยาของสารสำคัญจากใบพล (Zingiber Cassumunar Roxb.) วารสารกรมวิทยาศาสตร์การแพทย์, 21(1):13.

Konzett, H. and R. Rosler. 1940. "Versuchsanordnung zu Untersuchungen an der Bronchialmuskulatur", Naunyn-Schmiedeberg's Arch Pharmacol., 95:71.

Laitinen, L.A.I. 1974. "Histamine and methacholine challenge in the testing of bronchial reactivity", Scand J Respir Dis., Suppl 86:148.

Lichtenstein, LM., E. Gillespie. 1973. "Inhibition of histamine release by histamine controlled by H_2 -receptor", Nature, 244:287.

Lockett, MF. 1965. "Dangerous effects of isoprenaline in myocardial infarction", Lancet., 2:104.

Lulich, KM. and JW. Patterson. 1980. "An in vitro study of various drugs on central and peripheral airways of the rat : A Comparison with human airways", Br J Pharmac., 68:633.

Lundberg, JM., C-R. Martling, A. Saria. 1983. Substance P and Capsaicin-induced contraction of human bronchi.", Acta Physiol Scand., 119:49.

- Madison, J.M. CA. Jones, M. Tom-Moy and J.K. Brown. 1985. "Characterization of muscarinic cholinergic receptor subtypes in bovine airway smooth muscle and epithelium (abstract)", Am Rev Respir Dis., 131:281A
- Majno, G. 1964. "Mechanisms of abnormal vascular permeability in acute inflammation. In Thomas L, Uhr J, eds Injury, Inflammation and immunity. Baltimore : Williams and Wilkins, P 58-93.
- Majno, G., Ge. Palade, GI Schoefl, 1961. "Studies on inflammation. II. The site of action of histamine and serotonin along the vascular tree : a topographic study", J Biophys Biochem Cytol., 11:607.
- Malone, M.H. and RC. Robichaud. 1962. "A Hippocratic screen for pure or crude drug materials", Lloydia., 25:320.
- Mann, J.S., AG. Renwick, ST. Holgate. 1983. "Antigen bronchial provocation causes an increase in plasma adenosine levels in asthma", Clinical Science., 65 : 22 P.
- Mills, JE., H. Sellick, JG. Widdicombe. 1969. "The role of lung irritant receptors in respiratory responses to multiple pulmonary microembolism, anaphylaxis and drug-induced bronchoconstriction", J Physiol., 203 : 337.
- Moreley, JM., S . Saujar. and C.P. Page. 1984."The platelet in asthma", Lancet 1984; ii : 1142.
- McCulloch, MW., C. Proctor and M.J. Rand. 1967. "Evidence for an adrenergic homeostatic bronchodilator reflex mechanism", Eur J Pharmacol., 2:214.

McFadden, E.R. 1981. "Calcium-channel blocking agents and asthma. Ann. Intern, Med., 95 : 232.

Muccitelli, M.R., S.T. Stephanie, D.W.P. Hay, T.J. Torphy and M.A. Masserman. 1987. "Is the Guinea Pig trachea a good in vitro model of human large and central airway comparison on leukotriene-, methacholine-, histamine-and antigen-induced contractions"., J Pharmacol Exp. Ther. 243(2):467.

Muittari, A. 1968. "The value of the methacholine test as a diagnostic method in bronchospastic disorders", Ann Med Int Fenn., 57:197.

Nickerson, M. 1975. "Vasodilator drugs" in Goodman and Gilman's the pharmacological basis of therapeutics 5th ed., Goodman, L.S. and Gilman A. (ed.). Macmillan Publishing Co., Inc., P735.

Norn, S. and SP. Stahl. 1979. "Pathophysiologic mechanisms in asthma. Molecular and pharmacological aspects. Second. J. Respir. Dis., Suppl. 103:25.

Pake, GE., RN. Brogden, RC. Heel, TM. Speight, GS. Avery. 1980. "Ipratropium bromide : a review of its pharmacological properties and therapeutic efficacy in asthma and chronic bronchitis", Drugs., 20:237.

Parker, CD., RE. Bilbo and C.E. Reed. 1965. "Methacholine aerosol as test for bronchial asthma.", Arch Intern Med., 115 : 452.

Paterson, J.W., AJ. Woolcock and GM. Shenfield. 1979. "Bronchodilator drugs^{1,2}", AM Rev Respir Dis., 120 : 1149.
Pharmacological Experiments on isolated preparations. 1970, by the staff of the Department of Pharmacology, University of Edinburgh, London Group Ltd., P 100-103.

- Pichipalakorn, P. 1983. "Uterine Relaxant Effect of 1-(3, 4-dimethoxy phenyl)-1, 4-butane diol.", Unpublished M.Sc. Thesis, Chiang Mai University, Thailand.
- Piper, P.J. and M.N. Samhoun. 1987. "Leukotrienes" IN: Inflammation Mediators and Mechanisms, British Medical Bulletin., 43(2):297.
- Platshon, LF., M. Kaliner. 1978. "The effect of the immunologic release of histamine upon human lung cyclic nucleotide levels and prostaglandin generation.", J Clin Invest., 62:1113.
- Pongseboonrod, S. 1971. "ไม้เทศเมืองไทย" โรงพยาบาลอักษร กรุงเทพฯ หน้า 373-374.
- Reed, CE. 1974. "Abnormal autonomic mechanisms in asthma", J Allergy Clin Immunol., 53 : 34.
- Reed, CE. 1986. "New therapeutic approaches in asthma", J Allergy Clin Immunol., 77(4): 537.
- Reid, L. 1977. "Pathological changes in asthma". In : Asthma Eds. : T.J.H. Clark and S. Godfrey. Chapman and Hall, London, P79-95.
- Reiser, J. 1985. "Asthma in childhood" Br J Hospital Med., P 196.
- Richardson, JB. 1979. "Nerve Supply to the lungs", Am Rev Resp Dis., 119:785.
- Richardson, J.B. 1981. "Nonadrenergic inhibitory innervation of the lung", Lung., 159:315.
- Rubin AE, LJ. Smith and R. Patterson. 1986. "Effect of Platelet activating factor (PAF) on normal human airways", Am Rev Respir Dis., 133(4 suppl.):A91.

- Salonen, R.O., 1985. "Actions of bronchodilator drugs, glucocorticoid , and their combinations on airways in rats and guinea-pigs", Acta Pharmacol et Toxicol., 57(Suppl. III):10.
- Salonen, R.O., M.J. Mattila. 1981. "Dose-related bronchoconstriction with methacholine in rats, as modified by terbutaline alone and in combination with theophylline", Acta Pharmacol et Toxicol., 48:193.
- Salonen, R.O., M.J. Mattila and L.E. Edholm. 1982. "Actions of theophylline, terbutaline and ipratropium bromide alone and in combinations on the methacholine-induced bronchoconstriction", Acta Pharmacol et Toxicol., 51:309.
- Schwartz, S.H. 1983. "Asthma therapy" Postgrad Med.,, 73(6) : 269.
- Schelhamer J,Z. Maroni and M. Kaliner. 1980. "Immunologic and neuropharmacologic stimulation of mucous glycoprotein release from human airways in vitro", J Clin Invest., 66: 1400.
- Shelhamer, J., Z Marom, M. Kaline. 1982. "The effects of Arachinoids and leukotrienes on the release of mucus from human airways", Chest., 81:365.
- Simonsson BG, FM. Jacobs, JA. Nadel. 1967. "Role of autonomic nervous system and the cough reflex in the increase responsiveness of airways in patients with obstructive airway disease.", J Clin Invest., 46:1812.
- Soparat, P. 1984. "Relaxation of uterine and other smooth muscle by compound D from Zingiber cassumunar Roxb." Unpublished M.Sc. thesis, Chiang Mai University, Thailand.

- Srisawatdi, P. 1987. "Bronchodilator activity of phenyl butenol derivatives" Unpublished M.Sc. Thesis, Chiang Mai University, Thailand.
- Su, C. and J.A. Bevan. 1976. "Pharmacology of pulmonary blood vessels.", Pharmacol Ther., 2:275.
- Svedmyr, N. 1977. "Asthma treatment-pharmacological principles and mechanisms of drug-action"., Scand J Res Dis., 101:13.
- Szentivanyi, A. 1968. The beta-adrenergic theory of the atopic abnormality in bronchial asthma", J Allergy., 42:203.
- Tatham, M.E. and A.R. Gellert. 1985. "The management of acute severe asthma", Postgrad Med J., 61:599.
- Thomas B.C. and ZVI Marom. 1983. "Mast cells and asthma. The role of mast cell mediators in the pathogenesis of allergic asthma", Annals of Allergy., 1:2.
- Ting, S., B. Zweiman, R. Larker and EH. Dunsky. 1981. "Histamine Suppression of in vivo eosinophil accumulation and histamine release in human allergic reaction", J Allergy clin Immunol., 68:65.
- Townley, R.G., A.K. Bewtra, N.M. Nair, F.O. Brodkey, G.D. Watt and K.M. Burke. 1979. "Methacholine inhalation challenge studies.", J Allergy Clin Immunol., 64:569.
- Triggle, D.J. 1983. "Calcium, the control of smooth muscle function and bronchial hyperreactivity", Allergy, 38:1.

- Vergaffig, BB. and P. Braquet. 1987. "PAF-acether today relevance for acute experimental anaphylaxis", Br. Med. Bull. 43(2):313.

Wasserman, S. 1980. "The mast cell : Its Diversity of chemical mediators", Int J of Dermatology., 19:7.

Wellens, D. 1966. "Pharmacological reactivity of an isolated tracheal preparation of the guinea-pig.", Med Pharmacol Exp., 14:427.

Widdicombe, J.G. 1977. "Some experimental models of acute asthma",
J.R. coll Physicians., 11:141.