

## REFERENCES

Aaron SD, Fergusson D, Dent R, Chen Y, Vandemheen KL and Dales RE (2004): Effect of weight reduction on respiratory function and airway reactivity in obese women. *Chest* 125: 2046-52.

Adjei AA, Matsumoto Y, Kina T, Takamine F, Yonabaru M, Asato L, Yokoyama H, Imamura T and Yamamoto S (1993): Protection of BALB/c mice against methicillin-resistant *Staphylococcus aureus* infection by intraperitoneal administration of nucleoside-nucleotide mixture. *Tohoku Journal of Experimental Medicine* 169 (3): 179-86.

Akbari O, Faul JL, Hoyte EG, Berry GJ, Wahlstrom J, Kronenberg M, DeKruyff RH and Umetsu DT (2006): CD4<sup>+</sup> invariant T-cell-receptor<sup>+</sup> natural killer T cells in bronchial asthma. *New England Journal of Medicine* 11: 1117-29.

Aligne CA, Auinger P, Byrd RS and Weitzman M (2000): Risk factors for pediatric asthma: Contributions of poverty, race and urban residence *American Journal of Respiration and Critical Care Medicine* 162 (3): 873-77.

Allen JN and Davis WB (1994): State of the Art: The eosinophilic lung diseases. *American Journal of Respiration and Critical Care Medicine* 150: 1423-38.

Allen M, Heinzmann A, Noguchi E, Abecasis G, Broxholme J, Ponting CP, Bhattacharyya S, Tinsley J, Zhang Y, Holt R, *et al* (2003): Positional cloning of a novel gene influencing asthma from chromosome 2q14. *Natural Genetics* 35: 258-63.

Almqvist C, Egmar AC, van Hage-Hamsten M, Berglind N, Pershagen G, Nordvall SL, *et al*. (2003): Heredity, pet ownership and confounding control in a population-based birth cohort. *Journal of Allergy Clinical Immunology* 111(4): 800-6.

Alvarez R, Harrod KS, Shieh W-J, Zaki S and Tripp RA (2004): Human metapneumovirus persists in BALB/c mice despite the presence of neutralizing antibodies. *Journal of Virology* 78 (24): 14003-11.

American Academy of Pediatrics Committee on Environmental Health Environmental (1997): Tobacco smoke: a hazard to children. *Pediatrics* 99(4): 639-42.

American Thoracic Society (2000): What constitutes an adverse health effect of air pollution? Official statement of the American Thoracic Society. *Am Journal of Respiration and Critical Care Medicine* 161(2 Pt 1): 665-73.

Anmin Chen (1998): Traditional Chinese medicine in treatment of bronchitis and bronchial asthma. *Journal of Traditional Chinese Medicine* 18(1): 71-6.

Anmin K, Lodviksdottir D, Janson C *et al.* (2000): Inflammation and structural changes in the airways of patients with atopic and non-atopic asthma. BHR Group *American Journal of Respiration and Critical Care Medicine* 162: 2295-301.

Andreadis AA, Hazen SL, Comhair SAA and Erzurum SC (2003): Oxidative and nitrosative events in asthma. *Free Radical Biology and Medicine* 35 (3): 213-225.

Andriopoulou P, Navarro P, Zanetti A, Lampugnani MG and Dejana E (1999): Histamine induces tyrosine phosphorylation of endothelial cell-to-cell adherens junctions. *Arteriosclerosis Thrombosis and Vascular Biology* 19(10): 2286-97.

Anon (2003): Ephedra and ephedrine for weight loss and athletic performance enhancement: clinical efficacy and side effects. Evidence report/technology assessment (Sum) 76: 1-4.

Anto JM, Soriano JB, Sunyer J, Rodrigo MJ, Morell F, Roca J, *et al* (1999): Long-term outcome of soybean epidemic asthma after an allergen reduction intervention. *Thorax* 54(8): 670-4.

Anupama N, Sharma MV, Nagaraja HS and Bhat MR (2005): The serum immunoglobulin E level reflects the severity of bronchial asthma. *Thai Journal of Physiological Sciences* 18(3): 35-40.

Aronoff GM, Aronoff S and Peck L (1975): Hypnotherapy in the treatment of bronchial asthma. *Annals of Allergy* 34(6): 356-62.

Asabe K, Oka Y, Kai H and Shirakusa T (2007): Effect of maternal dexamethasone treatment on the type II pneumocytes in hypoplastic lung by oligohydramnios: an ultrastructural study. *Pediatric Surgery International* 23 (10): 967-70.

Astin JA (1998): Why patients use alternative medicine: results of a national study. *Journal of American Medical Association* 279: 1548-53.

Atallah AM and Nicholas HJ (1972): Triterpenoids and steroids of *Euphorbia pilulifera*. *Phytochemistry* 2: 1860-68.

Aterman K and Patel S (1970): Striated muscle in lung. *American Journal of Anatomy* 28: 341-49.

Balfour-Lynn, I (1999): Difficult asthma: beyond the guidelines. *Archives of Diseases in Childhood* 80: 201-6.

Ball TM, Castro-Rodriguez JA, Griffith KA, Holberg CJ, Martinez FD and Wright AL (2000): Siblings, day-care attendance, and the risk of asthma and wheezing during childhood. *New England Journal of Medicine* 343(8): 538-43.

Balon JW and Mior SA (2004): Chiropractic care in asthma and allergy. *Annals of Allergy and Asthma Immunology* 93 (2 Suppl 1): S55-60.

Banach-Wawrzenczyk E, Dziedziczko A and Rosc D (2000): Fibrinolytic system in bronchial asthma after prednisone treatment. *Polski merkuriusz lekarski: organ Polskiego Towarzystwa Lekarskiego* 7: 9-11.

Barak V, Birkenfeld S, Halperin T and Kalickman I (2002): The effect of herbal remedies on the production of human inflammatory and anti-inflammatory cytokines. *Israeli Medical Association Journal* 4 (11): 919-22. Comment in: *Israeli Medical Association Journal* 4(11): 944-6.

Barnes BJ. Reactive oxygen species and airway inflammation (1990): *Free Radical Biology and Medicine* 9: 235-43.

Barnes NC and Miller CJ (2000): Effect of leukotriene receptor antagonist therapy on the risk of asthma exacerbations in patients with mild to moderate asthma: an integrated analysis of zafirlukast trials. *Thorax* 55(6): 478-83.

Barnes PJ (2002): Cytokine modulators as novel therapies for asthma. *Annual Review of Pharmacology and Toxicology* 42: 81-98.

Barnes PJ (2002): New treatments for COPD. *National Review of Drug Discovery* 1437--46.

Barnes PJ (2003): Theophylline: new perspectives for an old drug. *American Journal of Respiratory Critical Care Medicine* 167(6): 813-8.

Barnes PJ (2004): Perspective: Small airways in COPD. *New England Journal Medicine* 350 (26): 2635-7.

Barnes PJ, Chung KF and Page CP (1998): Inflammatory mediators of asthma: an update. *Pharmacological Review* 4: 515-96.

Barnes PJ, Jonsson B and Klim JB (1996): The costs of asthma *European Journal of Respiration* 9: 636-42.

Bateman ED, Boushey HA, Bousquet J, Busse WW, Clark TJ, Pauwels RA, *et al.* (2004): Can guideline-defined asthma control be achieved? The gaining optimal asthma control study. *American Journal of Respiratory Critical Care Medicine* 170(8): 836-44.

Bator JM, Cohen RL and Chambers DA (1998): Hydrocortisone regulates the dynamics of plasminogen activator and plasminogen activator inhibitor expression in cultured murine keratinocytes. *Experimental Cell Research* 242(1): 110-9.

Beasley R, Roche WR, Roberts JA and Holgate ST (1989): Cellular events in the bronchi in mild asthma and after bronchial provocation. *American Review Respiratory Diseases* 139: 806-17.

Beaulieu J, Dupont C and Lemieux P (2007): Anti-inflammatory potential of a malleable matrix composed of fermented whey proteins and lactic acid bacteria in an atopic dermatitis model. *Journal of Inflammation* 4: 6.

Bellavite P, Ortolani R and Conforti A (2006): Immunology and homeopathy. Experimental studies on animal models. *Evidence Based Complementary and Alternative Medicine* 3: 171-86.

Benayoun L, Druilhe A, Dombret MC, Aubier M and Pretolani M (2003): Airway structural alterations selectively associated with severe asthma. *American Journal of Respiratory Critical Care Medicine* 167: 1360-68.

Bentley AM, Meng Q, Robinson DS, Hamid Q, Kay AB and Durham SR (1993): Increases in activated T lymphocytes, eosinophils, and cytokine mRNA expression for interleukin-5 and granulocyte/macrophage colony-stimulating factor in bronchial biopsies after allergen inhalation challenge in atopic asthmatics. *American Journal of Respiratory Cell and Molecular Biology* 8: 35-42.

Berger A (2000): Th1 and Th2 responses: what are they? *Science commentary. British Medical Journal* 321(7258): 424.

Bergman A, Yanai J, Weiss J, Bell D and David MP (1983): Acceleration of wound healing by topical application of honey: An animal model. *American Journal of Surgery* 145 (3): 374-6.

Bernick S and Zipkin I (1967): Histochemical study of bone in hydrocortisone-and fluoride-treated rats. *Journal of Dental Research* 46 (6): 1404-11.

Bernstein IL (1993), ed. *Asthma in the workplace*. New York: Marcel Dekker.

Bernstein IL, Chan-Yeung M, Malo JL and Bernstein DI (1999): Definition and classification of asthma. In: Bernstein IL, Chan-Yeung M, Malo JL, Bernstein DI, eds. *Asthma in the workplace*. New York: Marcel Dekker 1-4.

Berthiaume Y, Voisin G and Dagenais A (2006): The alveolar type I cells: the new knight of the alveolus? *The Journal of physiology* 572(Pt 3): 609-10.

Beuther DA, Weiss ST and Sutherland ER (2006): Pulmonary perspective: Obesity and asthma. *American Journal of Respiratory and Critical Care Medicine* 174: 112-119.

Bice DE, Seagrave J and Green FHY (2000): Animal models of asthma: Potential usefulness for studying health effects of inhaled particles. *Inhalation Toxicology* 12 (9): 829-862.

Bielory L (2004): Complementary and alternative interventions in asthma, allergy, and immunology. *Annals of Allergy, Asthma and Immunology* 93 (Suppl 1):S45-S54.

Bielory L and Lupoli K (1999): Herbal interventions in asthma and allergy. *Journal of Asthma* 36(1):1-65.

Bielory L, Russin J and Zuckerman GB (2004): Clinical efficacy, mechanisms of action, and adverse effects of complementary and alternative medicine therapies for asthma. *Allergy and Asthma Proceedings*: 25(5): 283-91.

Bingham CO and Austen KF (2000): Mast-cell responses in the development of asthma. *The Journal of Allergy and Clinical Immunology* 105: S527-34.

Bischof RJ, Snibson K, Shaw RJ and Meeusen ENT (2003): Induction of allergic inflammation in the lungs of sensitized sheep after local challenge with house dust mite. *Clinical and Experimental Allergy* 33: 367-75.

Black JL (2004): Asthma - more muscle cells or more muscular cells? *American Journal of Respiratory and Critical Care Medicine* 169(9): 980-1.

Blanc PD and Toren K (1999): How much adult asthma can be attributed to occupational factors? *American Journal of Medicine* 107(6): 580-7.

Blyth DI, Wharton TF, Pedrick MS, Savage TJ and Sanjar S (2000): Airway subepithelial fibrosis in a murine model of atopic asthma: suppression by dexamethasone or anti-interleukin-5 antibody. *American Journal of Respiratory Cell and Molecular Biology* 23: 241- 6.

Bodor N and Buchwald P (2006): Corticosteroid design for the treatment of asthma: structural insights and the therapeutic potential of soft corticosteroids. *Current pharmaceutical design* 12(25): 3241-60.

Bonacci JV, Schuliga M, Harris T and Stewart AG (2006): Collagen impairs glucocorticoid actions in airway smooth muscle through integrin signalling. *British Journal of Pharmacology* 149: 365-73.

Borenfreund E, Babich H and Martin-Alguacil N (1990): Rapid chemosensitivity assay with human normal and tumour cells *in vitro*. *In Vitro Cellular and Developmental Biology* 26: 1030-4.

Borish L, Mascali JJ, Dishuck J, Beam WR, Martin RJ and Rosenwasser LJ (1992): Detection of alveolar macrophage-derived IL-1 beta in asthma: Inhibition with corticosteroids. *The Journal of Immunology* 149 (9): 3078-82.

Borovitskaya MP, Volodchenko NI, Vysokoostrovskaya IB and Zhukova NA (1971): Side effects of hydrocortisone and prednisolone on mice of various age groups. *Bulletin of Experimental Biology and Medicine* 72 (6): 22-4.

Boulet LP, Chapman KR, Côte J, *et al.* (1997): Inhibitory effects of an anti-IgE antibody E25 on allergen-induced early asthmatic response. *American Journal of Respiratory and Critical Care Medicine* 155: 1835-40.

Bousquet J, Chanez P, Lacoste JY, Barneon G, Ghavanian N, Enander I, Venge P, Ahlstedt S, Simony-Lafontaine J, Godard P and Michel FB (1990): Eosinophilic inflammation in asthma. *New England Journal of Medicine* 323: 1033-9.

Bousquet J, Jeffery PK, Busse WW, Johnson M and Vignola AM (2000): Asthma: From bronchoconstriction to airways inflammation and remodelling. *American Journal of Respiratory and Critical Care Medicine* 161(5): 1720-45.

Bradley BL, Azzawi M, Jacobson M, Assoufi B, Collins JV, Irani AM, Schwartz LB, Durham SR, Jeffery PK and Kay AB (1991): Eosinophils, T-lymphocytes, mast cells, neutrophils and macrophages in bronchial biopsy specimens from atopic subjects with asthma: comparison with biopsy specimens from atopic subjects



without asthma and normal control subjects and relationship to bronchial hyperresponsiveness. *The Journal of Allergy and Clinical Immunology* 88: 661-74.

Braquet P and Hosford D (1991): Ethnopharmacology and the development of natural PAF antagonists as therapeutic agents. *Journal of Ethnopharmacology* 32: 135-9.

Braun-Fahrlander C (2003): Environmental exposure to endotoxin and other microbial products and the decreased risk of childhood atopy: evaluating developments since April 2002. *Current Opinions on Allergy and Clinical Immunology* 3(5): 325-9.

Brewster CE, Howarth PH, Djukanovic R, Wilson J, Holgate ST and Roche WR (1990): Myofibroblasts and subepithelial fibrosis in bronchial asthma. *American Journal of Respiratory Cell and Molecular Biology* 3: 507-11.

Broide D H, Gleich GJ, Cuomo AJ, Coburn DA, Federman EC, Schwartz LB and IS Wasserman (1991): Evidence of ongoing mast cell and eosinophil degranulation in symptomatic asthma airway. *Journal of Allergy and Clinical Immunology* 88: 637-48.

Brooks SM, Weiss MA and Bernstein IL (1985): Reactive airways dysfunction syndrome (RADS): persistent asthma syndrome after high level irritant exposures. *Chest* 88: 376-84.

Broughton KS, Johnson CS, Pace BK, Liebman M and Kleppinger KM (1997): Reduced asthma symptoms with n-3 fatty acid ingestion are related to 5-series leukotriene production. *The American Journal of Clinical Nutrition* 65: 1011-7.

Buhl R, Hanf G, Soler M, *et al.* (2002): The anti-IgE antibody omalizumab improves asthma-related quality of life in patients with allergic asthma. *The European Respiratory Journal* 20: 1088-94.

Busse W, Corren J, Lanier BQ, McAlary M, Fowler-Taylor A, Cioppa. GD, van As A and Gupta N (2001): Omalizumab, anti-IgE recombinant humanized monoclonal antibody, for the treatment of severe allergic asthma. *The Journal of Allergy and Clinical Immunology* 108: 184-90.

Busse WW and Lemanske RF (2001): Asthma. *New England Journal of Medicine* 5: 350-62.

Butenas S and Mann KG (2002): Blood coagulation. *Biochemistry* 67(1): 3-12.

Calhoun WJ, Reed HE, Moest DR, Stevens CA (1992): Enhanced superoxide production by alveolar macrophages and air-space cells, airway inflammation, and alveolar macrophage density changes after segmental antigen bronchoprovocation in allergic subjects. *American Review of Respiratory Diseases* 145(2 Pt 1): 317-25.

Camargo CA Jr, Weiss ST, Zhang S, Willett WC, Speizer FE (1999): Prospective study of body mass index, weight change, and risk of adult-onset asthma in women. *Archives of Internal Medicine*.159: 2582-8.

Campbell WC (1968): Effect of anti-inflammatory agents on spontaneous cure of *Trichinella* and *Trichuris* in mice. *The Journal of Parasitology* 54(3): 452-6.

Camera M, Giesen PL, Fallon J, Aufiero BM, Taubman M, Tremoli E and Nemerson Y (1999): Cooperation between VEGF and TNF-alpha is necessary for exposure of active tissue factor on the surface of human endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology* 19: 531-37.

Caramori G, Pandit A and Papi A (2005): Is there a difference between chronic airway inflammation in chronic severe asthma and chronic obstructive pulmonary disease? *Current Opinions on Allergy and Clinical Immunology* 5: 77-83.

Carroll N, Carello S, Cooke C and James A (1996): Airway structure and inflammatory cells in fatal attacks of asthma. *The European Respiratory Journal*: 9(4): 709-15.

Castro-Garza J, Barrios-García HB, Cruz-Vega DE, Said-Fernández S, Carranza-Rosales P, Molina-Torres CA and Vera-Cabrera L (2007): Use of a colorimetric assay to measure differences in cytotoxicity of *Mycobacterium tuberculosis* strains. *Journal of Medical Microbiology* 56: 733-37.

Celedon JC, Litonjua AA, Ryan L, Platts-Mills T, Weiss ST and Gold DR (2002): Exposure to cat allergen, maternal history of asthma and wheezing in first 5 years of life. *Lancet* 360 (9335): 781-2.

Cella, M, Scheidegger D, Palmer-Lehmann K, Lane P, Lanzavecchia A and Alber G (1996): Ligation of CD40 on dendritic cells triggers production of high levels of interleukin-12 and enhances T cell stimulatory capacity: T-T help via APC activation. *The Journal of Experimental Medicine* 184: 747-52.

Chaabi M, Freund-Michel V, Frossard N, Randriantsoa A, Andriantsitohaina R and Lobstein A (2007): Anti-proliferative effect of *Euphorbia stenoclada* in human airway smooth muscle cells in culture. *Journal of Ethnopharmacology* 109(1): 134-139.

Chalmers GW, Macleod KJ, Little SA, Thomson LJ, McSharry CP and Thomson NC (2002): Influence of cigarette smoking on inhaled corticosteroid treatment in mild asthma. *Thorax* 57(3): 226-30.

Chanez P, Lacoste JY, Guillot B, Giron J, Barneon G, Enander I, Godard P, Michel FB and Bousquet J (1993): Mast cell's contribution to the fibrosing alveolitis of the scleroderma lung. *A Review of Respiratory Diseases* 147: 1497-1502.

Chang HC, Hung WC, Huang MS and Hsu HK (2002): Extract from the leaves of *Toona sinensis roemor* exerts potent antiproliferative effect on human lung cancer cells. *American Journal of Chinese Medicine* 30(2-3): 307-14.

Chan-Yeung M and Malo JL (1994): Aetiological agents in occupational asthma. *The European Journal of Respiration* 7(2): 346-71.

Chan-Yeung M and Malo JL (1999): Table of the major inducers of occupational asthma. In: Bernstein IL, Chan-Yeung M, Malo JL and Bernstein DI, eds. *Asthma in the workplace*. New York: Marcel Dekker 683-720.

Chanez P, Dent G, Yukawa T, Barnes PJ and KF Chung (1990): Generation of oxygen free radicals from blood eosinophils from asthma patients after stimulation with PAF or phorbol ester. *The European respiratory journal* 3: 1002-7.

Charpin D, Birnbaum J, Haddi E, Genard G, Lanteaume A, Toumi M, *et al.* (1991): Altitude and allergy to house-dust mites. A paradigm of the influence of environmental exposure on allergic sensitization. *American Review of Respiratory Diseases* 143(5 Pt 1): 983-6.

Chaudhuri R, Livingston E, McMahon AD, Thomson L, Borland W and Thomson NC (2003): Cigarette smoking impairs the therapeutic response to oral corticosteroids in chronic asthma. *American Journal of Respiratory and Critical Care Medicine* 168 (11): 1308-11.

Chellam VG (1988): Rhabdomyomatous dysplasia of the lung: A case report with review of the literature. *Pediatric Pathology* 8: 391-4.

Chen LL, Tager IB, Peden DB, Christian DL, Ferrando RE, Welch BS, *et al.* (2004): Effect of ozone exposure on airway responses to inhaled allergen in asthmatic subjects. *Chest* 125(6): 2328-35.

Chen X, Oppenheim JJ and Zack Howard OM (2005): BALB/c mice have more CD4, CD25, T regulatory cells and show greater susceptibility to suppression of their CD4, CD25, responder T cells than C57BL/6 mice. *Journal of Leukocyte Biology* 78: 114-21.

Cheng-Feng Y, Han-Ming S, Yi S, Zhi-Xiong Z and Choon-Nam O (1997): Cadmium-induced oxidative cellular damage in human fetal lung fibroblasts (MRC-5 Cells). *Environmental Health Perspectives* 105(7): 712-16.

Chevalier G and Collet AJ (1972): *In vivo* incorporation of choline- 3H, leucine-3H and galactose-3H in alveolar type II pneumocytes in relation to surfactant synthesis: a quantitative radioautographic study in mouse by electron microscopy. *Anatomical Records* 174: 289-310.

Chevrier MR, Ryan AE, Lee DYW, Zhongze M, Yan ZW and Via CS (2005): Efficacy and tolerability of antiasthma herbal medicine intervention in adult patients with moderate-severe allergic asthma. *Clinical and Diagnostic Laboratory Immunology* 12 (5): 575-80.

Chiba K, Kawakami K, Tohyama K (1998): Simultaneous evaluation of cell viability by Neutral Red, MTT and Crystal violet staining assays of the same cells. *Toxicology in Vitro* 12: 251-258.

Chiou W-F, Shum AY-C, Peng C-H, Chen C-F and Chou C-J (2003): Piperlactam S suppresses macrophage migration by impeding F-actin polymerization and filopodia extension. *European Journal of Pharmacology* 458 (1-2) 1: 217-25.

Christodoulopoulos P, Leung DY, Elliott MW, Hogg JC, Muro S, Toda M, Laberge S and Hamid QA (2000): Increased number of glucocorticoid receptor-beta-expressing cells in the airways in fatal asthma. *The Journal of allergy and clinical immunology* 106: 479-484.

Chu HW, Halliday JL, Martin RJ, Leung DYM, Szeffler S J and Wenzel SE (1998): Collagen deposition in large airways may not differentiate severe asthma from milder forms of the disease. *American Journal of Respiratory and Critical Care Medicine* 158 (6): 1936-44.

Chung KF (2000): Airway smooth muscle cells: contributing to and regulating airway mucosal inflammation? *The European Respiratory Journal*: 15(5): 961-8.

Cieslewicz G, Tomkinson A, Adler A, Duez C, Schwarze J, Takeda K, Larson KA, Lee JJ, Irvin C and Gelfand EW (1999): The late, but not early, asthmatic response is dependent on IL-5 and correlates with eosinophil infiltration. *The Journal of Clinical Investigation* 104: 301-8.

Cohn L, Elias JA and Chupp GL (2004): Asthma: mechanisms of disease persistence and progression. *Annual Review of Immunology* 22: 789- 815.

Collins DS, Dupuis R, Gleich GJ, Bartemes KR, Koh YY, Pollice M, Albertine KH, Fish JE and Peters SP (1993): Immunoglobulin E-mediated increase in vascular permeability correlates with eosinophilic inflammation. *American Review of Respiratory Diseases* 147: 677-83.

Collipp PJ, Goldzier S III, Weiss N, *et al.* (1975): Pyridoxine treatment of childhood bronchial asthma. *Annals of Allergy* 35: 93-7.

Comalada M, Camuesco D, Sierra S, Ballester I, Xaus J, Galvez J and Zarzuelo A (2005): *In vivo* quercitrin anti-inflammatory effect involves release of quercetin which inhibits inflammation through down-regulation of the NF-kappa B pathway. *European Journal of Immunology* 35: 584-92.

Conforti F, Loizzo M, Statti G, Houghton P and Menichini F (2006): Biological properties of different extracts of two *Senecio* species. *International Journal of Food Sciences and Nutrition* 57(1-2): 1-8.

Cookson W (2004): The immunogenetics of asthma and eczema: a new focus on the epithelium. *Natural Review of Immunology* 4: 978-88.

Cox G (1995): glucocorticoid treatment inhibits apoptosis in human neutrophils. *American Association of Immunologists* 154: 4719-25.

Cox G, Crossley J and Xing Z (1995): Macrophage engulfment of apoptotic neutrophils contributes to the resolution of acute pulmonary inflammation *in vivo*. *American Journal of Respiratory Cell and Molecular Biology* 12: 232-37.

Coyle AJ, Urwin SC, Page CP, Touvay C, Villain B and Braquet P (1988): The effect of the selective PAF antagonist BN 52021 on PAF- and antigen-induced bronchial hyper-reactivity and eosinophil accumulation. *European Journal of Pharmacology* 148: 51-8.

Curtis GH, Patrick MK, Catto-Smith AG and Gall DG (1990): Intestinal anaphylaxis in the rat. Effect of chronic antigen exposure. *Gastroenterology* 98: 1558 - 66.

Dai LJ, Hou J and Cai HR (2004): Experimental study on treatment of pulmonary fibrosis by Chinese drugs and integrative Chinese and Western medicine. *Zhongguo Zhong Xi Yi Jie He Za Zhi* 24(2): 130-2. [Article in Chinese].

Davies RJ, Wang J, Abdelaziz MM, Calderon MA, Khair O, Devalia JL and Rusznak C (1997): New insights into the understanding of asthma. *Chest* 111: 2-10.

Davis MS, Malayer JR, Vandeventer L, Royer CM, McKenzie EC and Williamson KK (2005): Cold weather exercise and airway cytokine expression. *Journal of Applied Physiology* 98: 2132-36.

Davis MS, McKiernan B, McCullough S, Nelson S Jr., Mandsager RE, Willard M and Dorsey K (2002): Racing Alaskan Sled Dogs as a Model of "Ski Asthma". *American Journal of Respiratory and Critical Care Medicine* 166: 878 - 82.

De Bie JJ, Hessel EM, Van Ark I, Van Esch B, Hofman G, Nijkamp FP and Van Oosterhout AJM (1996): Effect of dexamethasone and endogenous corticosterone on airway hyperresponsiveness and eosinophilia in the mouse. *British Journal of Pharmacology* 119: 1484 -90.

de Meer G, Janssen NA and Brunekreef B (2005): Early childhood environment related to microbial exposure and the occurrence of atopic disease at school age. *Allergy* 60(5): 619-25.

Del Prete GF, De Carli M, D'Elios MM, Maestrelli P, Ricci M, Fabbri L and Romagnani S (1993): Allergen exposure induces the activation of allergen-specific Th2 cells in the airway mucosa of patients with allergic respiratory disorders. *European Journal of Immunology* 23: 1445-49.

DeLeo FR (2004): Modulation of phagocyte apoptosis by bacterial pathogens. *Apoptosis* 9: 399-413.

DeLorme MP, Yang H, Elbon-Copp C, Gao X, Barraclough-Mitchell H and Bassett DJ (2002): Hyperresponsive airways correlate with lung tissue inflammatory cell changes in ozone-exposed rats. *Journal of Toxicology and Environmental Health (A)* 11: 1453-70.

Denburg JA (1998): Basophils and mast cells in airway inflammation and asthma. *Canadian Respiratory Journal (Suppl A)*: 41-4.

Denburg JA (1996): The inflammatory response. *American Journal of Respiratory and Critical Care Medicine* 153: 11-13.



Devereux G and Seaton A (2005): Diet as a risk factor for atopy and asthma. *Journal of Allergy and Clinical Immunology* 115(6): 1109-17.

Dezateux C, Stocks J, Dundas I and Fletcher ME (1999): Impaired airway function and wheezing in infancy: the influence of maternal smoking and a genetic predisposition to asthma. *American Journal of Respiratory and Critical Care Medicine* 159(2): 403-10.

Dickshit RAO (1943): Effect of *Euphorbia hirta* on the cardiovascular system. *Proceedings of Indian Science Conference* 349.

Dicpinigaitis PV, Dobkin JB and Reichel J (2002): Antitussive effect of the leukotriene receptor antagonist zafirlukast in subjects with cough-variant asthma. *Journal of Asthma* 39(4): 291-7.

Dixon JB, Chapman L and O'Brien P (1999): Marked improvement in asthma after Lap-Band surgery for morbid obesity. *Obesity Surgery* 9: 385-9.

Djukanovic R, Roche WR, Wilson JW, Beasley CR, Twentyman OP, Howarth RH and Holgate ST (1990): Mucosal inflammation in asthma. *American Review of Respiratory Diseases* 142: 434-57.

Djukanovic R, Wilson JW, Britten KM, Wilson SJ, Walls AF, Roche WR, Howarth PH and Holgate ST (1990): Quantitation of mast cells and eosinophils in the bronchial mucosa of symptomatic atopic asthmatics and healthy control subjects using immunohistochemistry. *American Review of Respiratory Diseases* 142: 863-71.

Dombrowicz D and Capron M (2001): Eosinophils, allergy and parasites. *Current Opinions in Immunology* 13: 16-20.

Dontas I, Halabalaki M, Moutsatsou P, Mitakou S, Papoutsis Z, Khaldi L, Galanos A and Lyrithis GP (2006): Protective effect of plant extract from *Onobrychis ebenoides* on ovariectomy-induced bone loss in rats. *Maturitas* 53: 234 - 42.

Drazen JM (1998): New directions in asthma drug therapy. *Hospital Practice* 33: 25-6.

Drazen JM and Weiss ST (2002): Genetics: inherit the wheeze. *Nature* 418 (6896): 383-4.

Drazen JM, Israel E and O'Byrne PM (1999): Treatment of asthma with drugs modifying the leukotriene pathway. *New England Journal of Medicine* 340(3): 197-206.

Drut RM, Quijano G, Drut R and Las Heras J (1988): Rhabdomyomatous dysplasia of the lung. *Pediatric Pathology* 8 (4): 385-90.

Dry J and Vincent D (1991): Effect of a fish oil diet on asthma: results of a 1-year double-blind study. *International Archives of Allergy and Applied Immunology* 95: 156-7.

Duez C, Kips J, Pestel J, Tournoy K, Tonnel AB and Pauwels R (2000): House dust mite-induced airway changes in hu-SCID mice. *American Journal of Respiratory and Critical Care Medicine* 161: 200-6.

Duffy DL, Martin NG, Battistutta D, Hopper JL and Matthews JD. (1990): Genetics of asthma and hayfever in Australian twins. *American Review of Respiratory Diseases* 142: 1351-8.

Duncan CJA, Lawrie A, Blaylock MG, Douglas JG and Walsh GM (2003): Reduced eosinophil apoptosis in induced sputum correlates with asthma severity. *The European Respiratory Journal* 22: 484-90.

Dunnill MS (1960): The pathology of asthma, with special reference to changes in the bronchial mucosa. *Journal of Clinical Pathology* 13: 27-33.

Dunnill MS, Massarella GR and Anderson JA (1969): A comparison of the quantitative anatomy of the bronchi in normal subjects, in status asthmaticus, in chronic bronchitis and in emphysema. *Thorax* 24: 176-9.

Dutta-Roy AK, Crosbie L and Gordon MJ (2001): Effect of tomato extract on human platelet aggregation *in vitro*. *Platelets* 12: 218-27.

Eisenberg DM, Davis RB, Ettner SL, Appel S, Wilkey S, Van Rompay M and Kessler RC (1998): Trends in alternative medicine use in the United States, 1990-1997: results of a follow-up national survey. *Journal of the American Medical Association* 280: 15-1575.

Eisenberg DM, Kessler RC, Foster C, Norlock FE, Calkins DR and Delbanco TL (1993): Unconventional medicine in the United States: prevalence, costs, and patterns of use. *New England Journal of Medicine* 328: 246-52.

Ekelund L, Arvidson G, Emanuelsson H, Myhrberg H and Åstedt B (1975): Effect of cortisol on human fetal lung in organ culture. *Cell and Tissue Research* 163 (3): 263-72.

Elias JA (2000): Airway Remodelling in Asthma: Unanswered Questions. *American Journal of Respiratory and Critical Care Medicine* 161(3): 168-171.

Epstein MM (2004a): Do mouse models of allergic asthma mimic clinical disease? *International Archives of Allergy and Applied Immunology* 133: 84-100.

Epstein MM (2004b): Modelling allergic asthma: *in vitro* assays to virtual patients. *Drug Discovery Today. Disease Models* 1: 387-94.

Epstein MM (2006): Are mouse models of allergic asthma useful for testing novel therapeutics? *Experimental and Toxicologic Pathology* 57 (2): 41-4.

Evans MJ, Van Winkle LS, Fanucchi MV and Plopper CG (1999): The attenuated fibroblast sheath of the respiratory tract epithelial-mesenchymal trophic unit. *American Journal of Respiratory Cell and Molecular Biology* 21: 655-7.

Fabbri LM, Caramori G and Maestrelli P (1997): Etiology of occupational asthma. In: Roth RA, ed. *Comprehensive toxicology: toxicology of the respiratory system*. Cambridge: Pergamon Press 425-35.

Faccioli LH, Mokwa VF, Silva CL, Rocha GM, Araujo JI, Nahori MA and Vargaftig BB (1996): IL-5 drives eosinophils from bone marrow to blood and tissues in a guinea-pig model of visceral larva migrans syndrome. *Medical Inflammation* 5: 24-31.

Fahy JV, Fleming E, Wong HH, *et al.* (1997): The effect of an anti-IgE monoclonal antibody on the early-and late-phase responses to allergen inhalation in asthmatic subjects. *American Journal of Respiratory and Critical Care Medicine* 155: 1828-34.

Fahy JV, Kim KW, Liu J and Boushey HA (1995): Prominent neutrophilic inflammation in sputum from subjects with asthma exacerbation. *Journal of Allergy and Clinical Immunology* 95(4): 843-52.

Farnsworth NR, Akerele O, Bingel AS, Soejarto DD and Guo Z (1985): Medicinal plants in therapy. *Bulletin of the World Health Organization* 63: 965-81.

Faul JL, Tormey VJ, Leonard C, Burke CM, Farmer J, Horne SJ and Poulter LW (1997): Lung immunopathology in cases of sudden asthma death. *The European Respiratory Journal* 10: 301-7.

Fayer R and Fetterer R (1995): activity of Benzimidazoles against cryptosporidiosis in neonatal BALB/c mice. *Journal of Parasitology* 81(5): 794-5.

Fecka I and Turek S (2007): Determination of water-soluble polyphenolic compounds in commercial herbal teas from *Lamiaceae*: *peppermint*, *melissa* and *sage*. *Journal of Agricultural and Food Chemistry* 55(26): 10908-17.

Federspil G and Vettor R (2000): Can scientific medicine incorporate alternative medicine? *Journal of Alternative and Complementary Medicine* 6: 241-4.

Fenster CP, Darley-Usmar VM, Landar AL, Gower BA, Weinsten RL, Hunter GR and Patel RP (2004): Weight loss and race modulate nitric oxide metabolism in overweight women. *Free Radical Biology and Medicine* 37: 695-702.

Fink S (2002): Going public: international efforts spotlight traditional, complementary and alternative medicine. *American Journal of Public Health* 92 (11): 1734-9.

Finkelstein R, Fraser RS, Ghezze H and Cosio MG (1995): Alveolar inflammation and its relationship to emphysema in smokers. *American Journal of Respiratory and Critical Care Medicine* 152: 1666-72.

Fireman P (2003): Understanding asthma pathophysiology. *Allergy and Asthma Proceedings* 24(2): 79-83.

Forastiere F, Pistelli R, Sestini P, Fortes C, Renzoni E, Rusconi F, Dell'Orco V, Ciccone G and Bisanti L (2000): Consumption of fresh fruit rich in vitamin C and wheezing symptoms in children. SIDRIA Collaborative Group, Italy (Italian Studies on Respiratory Disorders in Children and the Environment). *Thorax* 55: 283-8.

Fraggetta F, Davenport M, Magro G, Cacciaguerra S and Nash R (2000): Striated muscle cells in non-neoplastic lung tissue: A clinicopathologic study. *Human Pathology* 31 (12): 1477-81.

Freeman BA and Crapo JD (1982): Biology of disease: free radicals and tissue injury. *Laboratory Investigation* 47: 412-28.

Freshney, RI (2000): *Culture of animal cells: a manual of basic technique*. Wiley Publishers, New York.

Frew A, Chang JH, Chan H, Quirce S, Noertjojo K, Keown P, *et al.* (1998): T-lymphocyte responses to plicatic acid-human serum albumin conjugate in occupational asthma caused by western red cedar. *J Allergy Clin Immunol* 101(6 Pt 1):841-7.

Friedman NJ and Zeiger RS (2005): The role of breast-feeding in the development of allergies and asthma. *Journal of Allergy and Clinical Immunology* 115(6): 1238-48.

Frigas E and Gleich GJ (1986): The eosinophil and the pathophysiology of asthma. *Journal of Allergy and Clinical Immunology* 77: 527-37.

Fukakusa M, Bergeron C, Tulic MK, Fiset P-O, Dewachi O A, Laviolette M, Hamid Q and Chakir J (2005): Oral corticosteroids decrease eosinophil and CC chemokine expression but increase neutrophil, IL-8, and IFN-g-inducible protein 10 expression in asthmatic airway mucosa. *Journal of Allergy and Clinical Immunology* 115: 280-6.

Gabazza EC, Taguchi O, Tamaki S, Takeya H, Kobayashi H, Kobayashi T, Hataji O, Urano H, Zhou H, Suzuki K and Adachi Y (1999): Thrombin in the airways of asthmatic patients. *Lung* 177: 253-62.

Gabbrielli S, Di Lollo S, Stanflin N and Romagnoli P (1994): Myofibroblast and elastic and collagen fibre hyperplasia in the bronchial mucosa: a possible basis for the progressive irreversibility of airway obstruction in chronic asthma. *Pathologica* 86: 157-60.

Galli SJ, Kalesnikoff J, Grimbaldston MA, Piliponsky AM, Williams CM, Tsai M (2005): Mast cells as "tunable" effector and immunoregulatory cells: recent advances. *Annual Review of Immunology* 23: 749-86.

Galvez J, Crespo ME, Jimenez J, Suarez A and Zarzuelo A (1993): Antidiarrhoeic activity of quercitrin in mice and rats. *The Journal of Pharmacy and Pharmacology* 45(2): 157-9.

Gama Landgraf R, Sirois P and Jancar S (2003): Differential modulation of murine lung inflammation by bradykinin B (1) and B(2) selective receptor antagonists. *European Journal of Pharmacology* 460: 75-83.

Gama Landgraf R, Steil AA, Sirois P and Jancar S (2004): Modulation of allergic and immune complex-induced lung inflammation by bradykinin receptor antagonists. *Inflammation Research* 53: 78-83.

Gambotto A, Dworacki G, Cicinnati V, Kenniston T, Steitz J, Tüting T, Robbins P D and DeLeo A B (2000): Immunogenicity of enhanced green fluorescent protein (EGFP) in BALB/c mice: identification of an H2-Kd-restricted CTL epitope. *Gene Therapy* 7: 2036-40.

Ganguli R (1999): Weight gain associated with antipsychotic drugs. *Journal of Clinical Psychiatry* 60 (21): 20-4.

Gauderman WJ, Avol E, Gilliland F, Vora H, Thomas D, Berhane K, *et al.* (2004): The effect of air pollution on lung development from 10 to 18 years of age. *New England Journal of Medicine* 351(11): 1057-67.

Gereda JE, Leung DYM, Thatayatikom A, Streib JE, Price MR, Klinnert MD, *et al.* (2000): Relationship between house dust endotoxin exposure, type 1 T-cell development, and allergen sensitisation in infants at high risk of asthma. *Lancet* 355: 1680-3.

Gern JE and Busse WW (2002): Relationship of viral infections to wheezing illnesses and asthma. *Natural Review of Immunology* 2(2): 132 - 8.

Gern JE, Reardon CL, Hoffjan S, Nicolae D, Li Z, Roberg KA, *et al.* (2004): Effects of dog ownership and genotype on immune development and atopy in infancy. *Journal of Allergy and Clinical Immunology* 113(2): 307-14.

Gerriets T, Li F, Silva MD., Meng Xi, Brevard M, Sotak CH and Fisher M (2003): The macrosphere model: Evaluation of a new stroke model for permanent middle cerebral artery occlusion in rats. *Journal of Neuroscience Methods* 122: 201-11.

Gizycki M, Adelroth E, Rodgers A, O'Byrne P and Jeffery P (1997): Myofibroblast involvement in allergen-induced late response in mild asthma. *American Journal of Respiratory Cell and Molecular Biology* 16: 664-73.

Gleich GJ (2000): Mechanisms of eosinophil-associated inflammation. *Journal of Allergy and Clinical Immunology* 105: 651-63.

Gleich GJ, Flavahan NA, Fujisawa T and Vanhoutte PM (1988): The eosinophil as a mediator of damage to respiratory epithelium: a model for bronchial hyperreactivity. *Journal of Allergy and Clinical Immunology* 81: 776-81.

Global Strategy for Asthma Management and Prevention, Global Initiative for Asthma (GINA) 2006. Retrieved from: <http://www.ginasthma.org>.

Goodman LS *et al.* (1993): Goodman and Gilman's the pharmacological basis of therapeutics, 8th Ed. New York, MacMillan: 213-4.



Goudie AJ, Smith J and Halford J (2002): Characterization of olanzapine-induced weight gain in rats. *Journal of Psychopharmacology* 16: 291-296.

Gouveia L and Empis J (2003): Relative stabilities of microalgal carotenoids in microalgal extracts, biomass and fish feed: effect of storage conditions. *Innovative Food Science and Emerging Technologies* 4 (2): 227-33.

Grael CFF, Albuquerque S and Lopes JLC (2005): Chemical constituents of *Lychnophora pohlii* and *trypanocidal* activity of crude plant extracts and of isolated compounds. *Fitoterapia* 76(1): 73-82. Green WF, Konnaris K and Woolcock AJ (1993):

Effect of salbutamol, fenoterol, and sodium cromoglycate on the release of heparin from sensitized human lung fragments challenged with *Dermatophagoides pteronyssinus* allergen. *American Journal of Respiratory Cell and Molecular Biology* 8: 518-21.

Greil J, Spies T, Boswald M, Bechert T, Lugauer S, Regenfus A, Guggenbichler JP (1999): Analysis of the Acute Cytotoxicity of the Erlanger Silver Catheter. *Infection* 27 (1): 34-7.

Groneberg DA, Quarcoo D, Frossard N and Fischer A (2004): Neurogenic mechanisms in bronchial inflammatory diseases. *Allergy* 59(11): 1139-52.

Grootendorst DC, Sont JK, Willems LN, Kluin-Nelemans JC, Van Krieken JH, Veselic-Charvat M and Sterk PJ (1997): Comparison of inflammatory cell counts in asthma: induced sputum vs bronchoalveolar lavage and bronchial biopsies. *Clinical and Experimental Allergy* 7: 769-79.

Guggi D and Bernkop-Schnurch A. (2005): Improved paracellular uptake by the combination of different types of permeation enhancers. *International Journal of Pharmaceutics* 288: 141-50.

Guinot P, Brambilla C, Duchier J, Braquet P, Bonvoisin B and Cournot A (1987): Effect of BN 52063, a specific PAF-acether antagonist, on bronchial provocation test to allergens in asthmatic patients: a preliminary study. *Prostaglandins* 34: 723-31.

Gupta DR and Garg SK (1966): A chemical examination of *Euphorbia hirta* Linn. *Bulletin of the Chemical Society of Japan* 3911: 2532-4.

Gupta I, Gupta V, Parihar A, Gupta S, Ludtke R, Safayhi H, Ammon HP (1998): Effects of *Boswellia serrata* gum resin in patients with bronchial asthma: results of a double-blind, placebo-controlled, 6-week clinical study. *European Journal of Medical Research* 3: 511-4.

Gupta S, George P, Gupta V, Tandon VR and Sundaram KR (1979): *Tylophora indica* in bronchial asthma: a double-blind study. *Indian Journal of Med Research* 69: 981-9.

Hakala K, Stenius-Aarniala B, Sovijarvi A (2000): Effects of weight loss on peak flow variability, airways obstruction, and lung volumes in obese patients with asthma. *Chest* 118: 1315-21.

Hale LP and Haynes BF (1992): Bromelain treatment of human T cells removes CD44, CD45RA, E2/MIC2, CD6, CD7, CD8, and Leu 8/LAM1 surface molecules and markedly enhances CD2-mediated T cell activation. *Journal of Immunology* 149: 3809-16.

Hale LP, Greer PK and Sempowski GD (2002): Bromelain treatment alters leukocyte expression of cell surface molecules involved in cellular adhesion and activation. *Clinical Immunology* 104: 183-90.

Hale LP, Greer PK, Trinh CT and Gottfried MR (2005): Treatment with oral bromelain decreases colonic inflammation in the IL-10-deficient murine model of inflammatory bowel disease. *Clinical Immunology* 116: 135-42.

Haley KJ, Sunday ME, Wiggs BR, Kozakewich HP, Reilly JJ, Mentzer SJ, Sugarbaker DJ, Doerschuk CM and Drazen JM (1998): Inflammatory cell distribution within and along asthmatic airways. *American Journal of Respiratory and Critical Care Medicine* 158: 565-72.

Hallstrand TS, Moody MW, Wurfel MM, Schwartz LB, Henderson WR Jr and Aitken ML (2005): Inflammatory Basis of Exercise-induced Bronchoconstriction. *American Journal of Respiratory and Critical Care Medicine* 172: 679-86.

Hamelmann E and Gelfand EW (2001): IL-5 induced airway eosinophilia - the key to asthma. *Immunology Reviews* 179: 182-91.

Hamid Q, Tulic' MK, Liu MC, MD and Moqbel R (2003): Inflammatory cells in asthma: Mechanisms and implications for therapy. *Journal of Allergy and Clinical Immunology* 111 (1): 5 – 17.

Hamid QA and Cameron LA (2000): Recruitment of T cells to the lung in response to antigen challenge. *Journal of Allergy and Clinical Immunology* 106: 227-34.

Hance AJ (1993): Pulmonary immune cells in health and disease: dendritic cells and Langerhans' cells. *The European Respiratory Journal* 6: 1213-20.

Hanley FW (1974): Individualized hypnotherapy of asthma. *American Journal of Clinical Hypnotherapy* 16(4): 275.

Hargreave FE, Dolovich J, O'Byrne PM, Ramsdale EH and Daniel EE (1986): The origin of airway hyperresponsiveness. *Journal of Allergy and Clinical Immunology* 78 (5, 1): 825-32.

Harris RB, Zhou J, Youngblood BD, Rybkin II, Smagin GN and Ryan DH (1998): Effect of repeated stress on body weight and body composition of rats fed low- and high-fat diets. *American Journal of Physiology* 275 (6, 2): 1928-38.

Hase S, Richter A, Zhou XY, Aslam A, Buckley MG, Mceuen AR and Walls AF (2003): Generation of inflammatory cytokines by human lung fibroblasts and myofibroblasts in response to tryptase and agonists of protease-activated receptor-2 (part-2). *Clinical and Experimental Allergy* 33: 1464-68.

Hausberger FX and Hausberger BC (1958): Effect of insulin and cortisone on weight gain, protein and fat content of rats. *American Journal of Physiology* 193: 455-60.

Hazleton LW and Hellerman RC (1954): Studies on the pharmacology of *E pilulifera*. *Journal of American Pharmacological Association* 40: 474-6.

Heinzmann A, Thoma C, Dietrich H and Deichmann KA (2003): Identification of common polymorphisms in the mitochondrial genome. *Allergy* 58 (8): 830-1.

Herd CM and Page CP (1994): Pulmonary immune cells in health and disease: platelets. *The European Respiratory Journal* 7(6): 1145-60.

Herman GE (2002): Mouse Models of Human Disease: Lessons Learned and Promises to Come: *Institute of Laboratory Animal Research Journal* 43 (2). Retrieved July 2005 from [http://dels.nas.edu/ilar\\_n/ilarjournal/43\\_2/herman.shtml](http://dels.nas.edu/ilar_n/ilarjournal/43_2/herman.shtml).

Hessel EM, Van Oosterhout AJM, Hofstra CL, Garssen J, Van Loveren H, Savelkoul HFJ and Nijkamp FP (1994): Repeated ovalbumin inhalation causes bronchial hyperresponsiveness and infiltration in sensitized mice. *American Review of Respiratory Diseases* 149: A754.

Hessel EM, Van Oosterhout AJM, Van Ark I, Van Esch B, Hofman G, Van Loveren H, Savelkoul HFJ and Nijkamp FP (1997): Development of airway hyperresponsiveness is dependent of IFN-g and independent of infiltration. *American Journal of Respiratory Cell and Molecular Biology* 16: 325-35.

Hiermann A, Bucar F (1994): Influence of some traditional medicinal plants of Senegal on prostaglandin biosynthesis. *Journal of Ethnopharmacology* 422 111-6.

Hill J, Micklewright A, Lewis S and Britton J (1997): Investigation of the effect of short-term change in dietary magnesium intake in asthma. *The European Respiratory Journal* 10: 2225-9.

Hirst SJ, Martin JG, Bonacci JV, Chan V, Fixman ED, Hamid QA, *et al.* (2004): Proliferative aspects of airway smooth muscle. *Journal of Allergy and Clinical Immunology* 114(2): S2-17.

Hirst SJ, Walker TR and Chilvers ER (2000): Phenotypic diversity and molecular mechanisms of airway smooth muscle proliferation in asthma. *The European Respiratory Journal* 16: 159-77.

Hodges PJ and Kam PC (2002): The peri-operative implications of herbal medicines. *Anaesthesia* 57(9): 889-99.

Hoffjan S and Ober C (2002): Present status on the genetic studies of asthma. *Current Opinions in Immunology* 14: 709-17.

Hoffjan S, Nicolae D and Ober C (2003): Association studies for asthma and atopic diseases: a comprehensive review of the literature. *Respiratory Research* 4:14.

Holgate ST (1999): Genetic and environmental interaction in allergy and asthma. *Journal of Allergy and Clinical Immunology* 104(6): 1139-46.

Holliday R and McFarland GA (2000): A Role for Carnosine in Cellular Maintenance. *Biochemistry (Moscow)* 65 (7): 843-848.

Holloway JW, Beghe B and Holgate ST (1999): The genetic basis of atopic asthma. *Clinical and Experimental Allergy* 29(8): 1023-32.

Holt PG and Macaubas C (1997): Development of long term tolerance versus sensitisation to environmental allergens during the perinatal period. *Current Opinions in Immunology* 9: 782-7.

Holt PG, Macaubas C, Stumbles PA and Sly PD (1999): The role of allergy in the development of asthma. *Nature* 402: 12-17.

Horwood LJ, Fergusson DM and Shannon FT (1985): Social and familial factors in the development of early childhood asthma. *Pediatrics* 75(5): 859-68.

Hoshi H, Ohno I, Honma M, Tanno Y, Yamauchi K, Tamura G and Shirato K (1995): IL-5, IL-8 and GM-CSF immunostaining of sputum cells in bronchial asthma and chronic bronchitis. *Clinical and Experimental Allergy* 25: 720-8.

Hoshino M and Nakamura Y (1996): Anti-inflammatory effects of inhaled beclomethasone dipropionate in nonatopic asthmatics. *The European Respiratory Journal* 9(4): 696-702.

Huaping Z, Liwen C, Wenbin L and Hanchu L (2004): Effect of amygdalin on the proliferation of hyperoxia-exposed type II alveolar epithelial cells isolated from premature rat. *Journal of Huazhong University of Science and Technology (Medical Sciences)* 24 (3): 223-5.

Huber HL and Koessler KK (1922): The pathology of bronchial asthma. *Archives of Internal Medicine* 30: 689-760.

Humphries P, Smit E and Pretorius E (2007): Effects of aspartame on certain coagulation factors of the rabbit model (in press).

Huneau J-F, Coste M and Tome D (1991): Effect of chronic antigen exposure in growth and intestinal histamine content of sensitized rats. *Gastroenterologie Clinique et Biologique* 15: 525-8.

Hunter KW and Williams RW (2002): Complexities of cancer research: Mouse genetic models. *Institute of Laboratory Animal Research Journal* 43: 80-8.

Huntley A and Ernst E (2000): Herbal medicines for asthma: a systematic review. *Thorax* 55: 925-9.

Huss K, Adkinson NF, Eggleston PA, Dawson C, Van Natta ML, Hamilton RG (2001): House dust mite and cockroach exposure are strong risk factors for positive allergy skin test responses in the Childhood Asthma Management Program. *Journal of Allergy and Clinical Immunology* 107(1): 48-54.

Hutchins GM (2001): Dietary supplements containing ephedra alkaloids. *New England Journal of Medicine* 344:1095-1096, author reply 1096-7.

Hyman M (2006): *Ultrametabolism: the simple plan for automatic weight loss*. Simon and Schuster (Scribner) Inc: New York.

Illi S, von Mutius E, Lau S, Bergmann R, Niggemann B, Sommerfeld C, *et al.* (2001): Early childhood infectious diseases and the development of asthma up to school age: a birth cohort study. *British Medical Journal* 322(7283): 390-5.

In KH, Asano K, Beier D, Grobholz J, Finn PW, Silverman EK, *et al.* (1997): Naturally occurring mutations in the human 5-lipoxygenase gene promoter that modify transcription factor binding and reporter gene transcription. *Journal of Clinical Investigation* 99(5): 1130-7.

Iranloye BO (2002): Effect of chronic garlic feeding on some haematological parameters (Short communication). African Journal of Biomedical Research 5 (1-2): 81-2.

Israel E, Chinchilli VM, Ford JG, Boushey HA, Cherniack R, Craig TJ, *et al.* (2004): Use of regularly scheduled albuterol treatment in asthma: genotype-stratified, randomised, placebo-controlled crossover trial. Lancet 364(9444): 1505-12.

Ito K, Chung KF and Adcock IM (2006): Update on glucocorticoid action and resistance. Journal of Allergy and Clinical Immunology 117(3): 522-43.

Jacinto A and Wolpert L (2001): Filopodia. Current Biology 11 (16): 634-5.

Jacobs JP, Jones CM and Baille JP (1970): Characteristics of a human diploid cell designated MRC-5. Nature 227: 168-170.

Jacoby DB, Castello RM, Fryer AD (2001): Eosinophil recruitment to the airway nerves. Journal of Allergy and Clinical Immunology 107 (2): 211-8.

Jahnsen FL, Moloney ED, Hogan T, Upham JW, Burke CM and Holt PG (2001): Rapid dendritic cell recruitment to the bronchial mucosa of patients with atopic asthma in response to local allergen challenge. Thorax 56: 823-6.

James A (2005): Airway remodelling in asthma. Current Opinion in Pulmonary Medicine 11(1): 1-6.

Jarjour NN and Kelly EA (2002): Pathogenesis of asthma. The Medical clinics of North America 86: 925-936.

Jatakanon A, Uasuf C, Maziak W, Lim S, Chung KF and Barnes PJ (1999): Neutrophilic inflammation in severe persistent asthma. American Journal of Respiratory and Critical Care Medicine 160: 1532-9.



Jayasiri B and Perera C (2005): Successful withdrawal of inhaled corticosteroids in childhood asthma. *Respirology* 10: 385-8.

Jeffery PK (1999): Differences and similarities between chronic obstructive pulmonary disease and asthma. *Clinical and Experimental Allergy* 29 (2): 14-26.

Jeffery PK, Godfrey RW, Adelroth E, Nelson F, Rogers A and Johansson SA (1992): Effects of treatment on airway inflammation and thickening of basement membrane reticular collagen in asthma. A quantitative light and electron microscopic study. *American Review of Respiratory Diseases* 145(4 Pt 1): 890-9.

Jeong HJ, Koo HN, Myung NI, Shin MK, Kim JW, Kim DK, Kim KS, Kim HM and Lee YM: (2001): Inhibitory effects of mast cell-mediated allergic reactions by cell cultured *Siberian Ginseng*. *Immunopharmacology and Immunotoxicology* 23: 107-17.

Jing N, Zhi-Ming L, Xiang-Ming W, You-Ming X and Qing-Wen W (2007): Analysis of compounds in dichloromethane extractives for Sawara Falsecypress (*Chamaecyparis pisifera*) outer heartwood. *Journal of Forestry Research* 18 (3): 208-12.

Joachim RA, Quarcoo D, Arck PC, Herz U, Renz H and Klapp BF (2003): Stress Enhances Airway Reactivity and Airway Inflammation in an Animal Model of Allergic Bronchial Asthma. *Psychosomatic Medicine* 65: 811-5.

Jobst KA (1996): Acupuncture in asthma and pulmonary disease: an analysis of efficacy and safety. *Journal of Alternative and Complementary Medicine* 2(1): 179-206.

John M, Lim S, Seybold J, Jose P, Robichaud A, O'Connor B, Barnes PJ and Chung KF (1998): Inhaled corticosteroids increase interleukin-10 but reduce macrophage inflammatory protein-1alpha, granulocyte-macrophage colony-stimulating factor, and interferon-gamma release from alveolar macrophages in

asthma. *American Journal of Respiratory and Critical Care Medicine* 157(1): 256-62.

Johnson JB, Summer W, Cutler RG, Martin B, Hyun D-H, Dixit VD, Pearson M, Nassar M, Tellejohan R, Maudsley S, Carlson O, John S, Laub DR and Mattson MP (2007): Alternate day calorie restriction improves clinical findings and reduces markers of oxidative stress and inflammation in overweight adults with moderate asthma. *Free Radical Biology and Medicine* 42: 665-74.

Johnson JR, Wiley RE, Fattouh R, Swirski FK, Gajewska BU, Coyle AJ, *et al.* (2004): Continuous exposure to house dust mite elicits chronic airway inflammation and structural remodelling. *American Journal of Respiratory and Critical Care Medicine* 169: 378-85.

Johnson PB, Abdurahman EM, Tiam EA, Abdu-Aguye I and Hussaini IM (1999): *Euphorbia hirta* leaf extracts increase urine output and electrolytes in rats. *Journal of Ethnopharmacology* 65 (1): 63-9.

Johnson VJ, Osuchowski MF, He Q and Sharma RP (2002): Physiological responses to a natural antioxidant flavonoid mixture, silymarin, in Balb/c mice; alterations in thymic differentiation correlate with changes in c-myc gene expression. *Planta Medica* 68: 961-5.

Jones P, Benghuzzi H, Tucci M, Richards L, Harrison G and Patel R (2006): Pathophysiological responses of MRC-5 cells exposed to various doses of x-ray radiation. *Biomedical Sciences Instrumentation* 42: 72-7.

Jordana M (1993): Mast cells and fibrosis - who's on first? *American Journal of Respiratory Cell and Molecular Biology* 8: 7-8.

Jung CH, Seog HM, Choi IW, Park MW and Cho HY (2006): Antioxidant properties of various solvent extracts from wild ginseng leaves. *Food Science and Technology* 39 (3): 266-74.

Jung K, Kim I-H and Han D (2004): Effect of medicinal plant extracts on forced swimming capacity in mice. *Journal of Ethnopharmacology* 93 (1): 75-81.

Jungsuwadee P, Dekanb G, Stingla G and Epstein MM (2004): Inhaled dexamethasone differentially attenuates disease relapse and established allergic asthma in mice. *Clinical Immunology* 110: 13-21.

Juniper EF, Kline PA, Vanzielegem MA, Ramsdale EH, O'Byrne PM and Hargreave FE (1990): Effect of long-term treatment with an inhaled corticosteroid (budesonide) on airway hyperresponsiveness and clinical asthma in nonsteroid-dependent asthmatics. *American Review of Respiratory Diseases* 142(4): 832-6.

Kaliner MA, Blennerhassett J and Austen KF (1976): Bronchial asthma. In: Meischer PA and Muller-Eberhard HJ (eds). *Textbook of Immunopathology*. New York: Grune and Stratton, 387.

Kamafar HZ, Koshak EE and Milaat WA (1999): Is there a role for automated eosinophil count in asthma severity assessment? *Journal of Asthma* 36 (2): 153-8.

Kandaswami C and Middleton E Jr. (1994): Free radical scavaging and antioxidant activity of plant flavonoids. *Advances in Experimental Medicine and Biology* 366: 351-376.

Karjalainen EM, Laitinen A, Sue-Chu M, Altraja A, Bjermer L and Laitinen LA (2000): Evidence of airway inflammation and remodelling in ski athletes with and without bronchial hyperresponsiveness to methacholine. *American Journal of Respiratory and Critical Care Medicine* 161: 2086-91.

Karol MH (1994): Animal models of occupational asthma. *The European Respiratory Journal* 7: 555-68.

Karr RM, Davies RJ, Butcher BT, Lehrer SB, Wilson MR, Dharmarajan V, *et al.* (1978): Occupational asthma. *Journal of Allergy and Clinical Immunology* 61(1): 54-65.

Kay AB, Phipps S and Robinson DS (2004): A role for eosinophils in airway remodelling in asthma. *Trends in Immunology* 25(9): 477-82.

Kepley CL, Mcfeeley PJ, Oliver JM and Lipscomb MF (2001): Immunohistochemical Detection of Human Basophils in Postmortem Cases of Fatal Asthma. *American Journal of Respiratory and Critical Care Medicine* 164 (6): 1053-58.

Kern DF, Saldeen K, Saldeen T, Malik AB (1986): Pulmonary vascular effects of a fibrinogen-derived vasoactive peptide. *Thrombosis Research* 42: 783-8.

Kharitinov SA, Yates D, Robbins RA, Logan-Sinclair R, Shinebourne EA and Barnes PJ (1994): Increased nitric oxide in exhaled air of asthmatic patients. *Lancet* 342: 133-5.

Khleifat K, Shakhanbeh J, Tarawneh K (2002): The Chronic Effects of Teucrium polium on some blood parameters and histopathology of liver and kidney in the rat. *Turkish Journal of Biology* (26): 65-71.

Kidney J, Dominguez M, Taylor PM, Rose M, Chung KF, Barnes PJ (1995): Immunomodulation by theophylline in asthma. Demonstration by withdrawal of therapy. *American Journal of Respiratory and Critical Care Medicine* 151(6): 1907-14.

Kim JY, Kim DY, Lee YS, Lee BK, Lee K-H and Ro JY (2006): DA-9601, *Artemisia Asiatica* herbal extract, ameliorates airway inflammation of allergic asthma in mice. *Molecules and Cells* 22(1): 104-12.

Kim JY, Kwon EY, Lee YS, Kim WB and Ro JY (2005): Eupatilin blocks mediator release via tyrosine kinase inhibition in activated guinea pig lung mast cells. *Journal of Toxicology and Environmental Health* 6(8): 2060-77.

King RJ (1974): The surfactant system of the lungs. *Federal Proceedings* 33: 2238-47.

Kips JC, Anderson GP, Fredberg JJ, Herz U, Inman MD, Jordana M, Kemeny DM, Lottvall J, Pauwels RA, Plopper CG, Schmidt D, Sterk PJ, Van Oosterhout AJM, Vargaftig BB and Chung KF (2003): Murine models of asthma. *The European Respiratory Journal* 22: 374-82.

Kobayashi T, Iijima K and Kita H (2003): Marked airway eosinophilia prevents development of airway hyper-responsiveness during an allergic response in IL-5 transgenic mice. *Journal of Immunology* 170: 5756-63.

Koh YY, Dupuis R, Pollice M, Albertine KH, Fish JE and Peters SP (1993): Neutrophils recruited to the lungs of humans by segmental antigen challenge display a reduced chemotactic response to leukotriene B<sub>4</sub>. *American Journal of Respiratory Cell and Molecular Biology* 8: 493-9.

Kokwaro JO (1976): Medicinal plants in East Africa East African Literature. Bureau Nairobi 1-25.

Kon OM and Kay AB (1999): T cells and chronic asthma. *International Archives of Allergy and Immunology* 118: 133-5.

Koshak EA and Alamoudi OS (1999): Do eosinophil counts correlate differently with asthma severity by symptoms versus peak flow rate? *Annals of Allergy, Asthma and Immunology* 83 (6): 567-71.

Koshino T, Arai Y, Miyamoto Y, Sano Y, Takaishi T, Hirai K, Ito K and Morita Y (1995): Mast cell and basophil number in the airway correlate with the bronchial responsiveness of asthmatics. *International Archives of Allergy and Immunology* 107:378-9.

Kovacs E and DiPietro L (1994): Fibrogenic cytokines and connective tissue production. *The FASEB Journal: Official publication of the Federation of American Societies for Experimental Biology* 8: 854-61.

Kraft M, Djukanovic R, Wilson S, Holgate ST and Martin RJ (1996): Alveolar tissue inflammation in asthma. *American Journal of Respiratory and Critical Care Medicine* 154: 1505-10.

Kraft M, Lewis C, Pham D and Chu HW (2001): IL-4, IL-13 and dexamethasone augment fibroblast proliferation in asthma. *Journal of Allergy and Clinical Immunology* 107: 602-6.

Kraft M, Martin RJ, Wilson S, Djukanovic R and Holgate ST (1999): Lymphocyte and eosinophil influx into alveolar tissue in nocturnal asthma. *American Journal of Respiratory and Critical Care Medicine* 159: 228-34.

Kruse NJ, Rowe DW, Fujimoto WJ and Bornstein P (1978): *Biochimica et Biophysica Acta* 540: 101-16.

Kuipers H and Lambrecht BN (2004): The interplay of dendritic cells, Th2 cells and regulatory T cells in asthma. *Current Opinions in Immunology* 16(6): 702-8.

Kumar A, Sorkness RL, Kaplan MR and Lemanske RF Jr. (1997): Chronic, episodic, reversible airway obstruction after viral bronchiolitis in rats. *American Journal of Respiratory and Critical Care Medicine* 155: 130-4.

Kumar RK and Foster PS (2002): Modelling allergic asthma in mice; pitfalls and opportunities. *American Journal of Respiratory Cell and Molecular Biology* 27: 267-72.

Kunze R and Hartmann J (1997): Eliminating Hydrocortisone-induced Immune Suppression with *Pseudomonas aeruginosa in vitro*. *Explore* 8(2). Retrieved October 3, 2005, from <http://www.explorepub.com/articles/bio-therapy2.html>.

Kurosawa M (1994): Anti-allergic drug use in Japan - the rationale and the clinical outcome. *Clinical and Experimental Allergy* 24: 299-306.

Kurucz I and Szelenyi I (2006): Current Animal Models of Bronchial Asthma. *Current Pharmaceutical Design* 12(25): 3175-94.

Kuwano K, Bosken CH, Pare PD, Bai TR, Wiggs BR and Hogg JC (1993): Small airways dimensions in asthma and in chronic obstructive pulmonary disease. *American Review of Respiratory Diseases* 148: 1220-25.

Lacoste JY, Bousquet J, Chanez P, Van Vyve T, Simony-Lafontaine J, Lequeu N, Vic P, Enander I, Godard P and Michel FB (1993): Eosinophilic and neutrophilic inflammation in asthma, chronic bronchitis and chronic obstructive pulmonary disease. *Journal of Allergy and Clinical Immunology* 92: 537-48.

Laitinen A, Altraja A, Kampe M, Linden M, Virtanen I and Laitinen LA (1997): Tenascin is increased in airway basement membrane of asthmatics and decreased by an inhaled steroid. *American Journal of Respiratory and Critical Care Medicine* 156: 951-8.

Laitinen LA, Heino M, Laitinen A, Kava T and Haahtela T (1985): Damage of the airway epithelium and bronchial reactivity in patients with asthma. *American Review of Respiratory Diseases* 131: 599-606.

Laitinen LA., Laitinen A and Haahtela T (1992): A comparative study of the effects of an inhaled corticosteroid, budesonide, and a 2-agonist, terbutaline, on airway inflammation in newly diagnosed asthma: a randomized double-blind, parallel-group controlled trial. *Journal of Allergy and Clinical Immunology* 90: 32-42.

Laitinen T, Polvi A, Rydman P, Vendelin J, Pulkkinen G, Salmikangas P, Makela S, Rehn M, Pirskanen A, Rautanen A, *et al.* (2004): Characterisation of a common susceptibility locus for asthma-related traits. *Science* 304: 300-4.

Lamblin C, Gosset P, Tillie-Leblond I, Saulnier F, Marquette CH, Wallaert B and Tonnel AB (1998): Bronchial neutrophilia in patients with noninfectious status asthmaticus. *American Journal of Respiratory and Critical Care Medicine* 157: 394-402.

Lambrecht B, Pauwels R and Bullock G (1996): The dendritic cell: its potent role in the respiratory immune response. *Cell Biology International* 20: 111-20.

Lambrecht BN and Hammad H (2003): The other cells in asthma: dendritic cell and epithelial cell crosstalk. *Current Opinions in Immunology* 9(1): 34-41.

Lampinen M, Carlson M, Hakansson LD and Venge P (2004): Cytokine regulated accumulation of eosinophils in inflammatory diseases. *Allergy* 59: 793-805.

Landsman L and Jung S (2007): Lung Macrophages Serve as Obligatory Intermediate between Blood Monocytes and Alveolar Macrophages. *The Journal of Immunology* 179: 3488-94.

Landstra AM, Boezen HM, Postma DS and van Aalderen WM (2003): Effect of intravenous hydrocortisone on nocturnal airflow limitation in childhood asthma. *The European Respiratory Journal* 21: 627-32.



Lane SJ, Arm JP, Staynov DZ and Lee TH (1994): Chemical mutational analysis of the human glucocorticoid receptor cDNA in glucocorticoid-resistant bronchial asthma. *American Journal of Respiratory Cell and Molecular Biology* 11(1): 42-8.

Lanhers MC, Fleurentin J, Cabalion P, Rolland A, Dorfman P, Misslin R and Pelt JM (1990): Behavioral effects of *Euphorbia hirta* L: sedative and anxiolytic properties. *Journal of Ethnopharmacology* 292: 189-98.

Lanhers MC, Fleurentin J, Dorfman P, Mortier F and Pelt JM (1991): Analgesic antipyretic and anti-inflammatory properties of *Euphorbia hirta*. *Planta Medica* 57(3): 225-31.

Lantero S, Sacco O, Scala C, Spallarossa D and Rossi GA (1997): Stimulation of blood mononuclear cells of atopic children with the relevant allergen induces the release of eosinophil chemotactic activity that includes IL-3 IL-5 and GM-CSF. *Journal of Asthma* 34: 141-152.

Larche M, Robinson DS and Kay AB (2003): The role of T lymphocytes in the pathogenesis of asthma. *Journal of Allergy and Clinical Immunology* 111(3): 450-63.

Last JA, Ward R, Temple L and Kenyon NJ (2004): Ovalbumin-induced airway inflammation and fibrosis in mice also exposed to ozone. *Inhalation Toxicology* 16 (1): 33-43.

Lawrence SO and Simpson-Haidaris PJ (2004): Regulated de novo biosynthesis of fibrinogen in extrahepatic epithelial cells in response to inflammation. *Thrombosis and haemostasis* 92 (2): 234-43.

Lazarus AH, Song S and Crow AR (2003): Understanding platelet function through signal transduction. *Transfusion Medicine Reviews* 17(1): 45-56.

Lazarus SC, Boushey HA, Fahy JV, Chinchilli VM, Lemanske RF, Jr., Sorkness CA, *et al.* (2001): Long-acting beta2-agonist monotherapy versus continued therapy with inhaled corticosteroids in patients with persistent asthma: a randomized controlled trial. *Journal of the American Medical Association* 285(20):2583-93.

Le Strange R (1977): A history of herbal plants Angus and Robertson. London 1-50.

Leckie MJ, ten Brinke A, Khan J, Diamant Z, O'Connor BJ, Walls CM, Mathur AK, Cowley HC, Chung KF, Djukanovic R, Hansel TT, Holgate ST, Sterk PJ and Barnes PJ (2000): Effects of an interleukin-5 blocking monoclonal antibody on eosinophils, airway hyper-responsiveness, and the late asthmatic response. *Lancet* 356: 2144-8.

Lee SH, Choi SM, Sohn YS, Kang KK and Yoo M (2006): Effect of *Oryza sativa* extract on the progression of airway inflammation and remodelling in an experimental animal model of asthma. *Planta Medica* 72(5): 405-10.

Lee, J.Y., Lee, M.Y., Chung, S.M., Chung, J.H., (1998): Chemically induced platelet lysis causes vasoconstriction by release of serotonin. *Toxicology and applied pharmacology* 149: 235-42.

Leff AR (2001): Regulation of leukotrienes in the management of asthma: biology and clinical therapy. *Annual Review of Medicine* 52:1-14.

Leigh R, Ellis R, Wattie J, Southam DS, de Hoogh M, Gauldie J, O'Byrne PM and Inman MD (2002): Dysfunction and remodelling of the mouse airway persist after resolution of acute allergen-induced airway inflammation. *American Journal of Respiratory Cell and Molecular Biology* 27: 526-35.

Lemanske RF, Sorkness CA, Mauger EA, Lazarus SC, Boushey HA, Fahy JV, *et al.* (2001): Inhaled corticosteroid reduction and elimination in patients with

persistent asthma receiving salmeterol: a randomized controlled trial. *Journal of the American Medical Association* 285 (20): 2594-603.

Leonard P and Sur S (2002) Asthma: future directions. *The Medical clinics of North America* 86: 1131-56.

Leslie KO, Mitchell J and Low R (1992): Lung myofibroblasts. *Cell Motility and the Cytoskeleton* 22: 92-8.

Levine SA (2007): Ecklonia Cava Extract - Superior polyphenol antioxidant. Retrieved April 2007 from <http://www.nutricology.com>.

Li M, Handa S, Ikeda Y and Goto S (2001): Specific inhibiting characteristics of tetramethylpyrazine, one of the active ingredients of the Chinese herbal medicine '*Chuanxiong*,' on platelet thrombus formation under high shear rates. *Thrombosis Research* 104: 15-28.

Lichtenstein LM and Bochner BS (1991): The role of basophils in asthma. *Annals of the New York Academy of Sciences* 629 (1): 48-61.

Lindsey KL, Motei ML and Jager AK (2002): Screening South African food plants for anti-oxidant activity. *Journal of Food Science* 67: 2129-31.

Lipworth BJ (1999): Leukotriene-receptor antagonists. *Lancet* 353 (9146): 57-62.

Litinen A and Laitinen LA (1994): Airway morphology: epithelium/basement membrane. *American Journal of Respiratory and Critical Care Medicine* 150: 14-17.

Lommatzsch M, Julius P, Kuepper M, Garn H, Bratke K, Irmischer S, Luttmann W, Renz H, Braun A and Virchow JC (2006): The course of allergen-induced

leukocyte infiltration in human and experimental asthma. *Journal of Allergy and Clinical Immunology* 118: 91-7.

Lopes-Martins RA, Pegoraro DH, Woisky R, Penna SC and Sertie JA (2002): The anti-inflammatory and analgesic effects of a crude extract of *Petiveria alliacea* L. (Phytolaccaceae). *Phytomedicine* 9: 245-8.

Lötvall J (2004): Combination therapy in asthma--fixed or variable dosing in different patients? *Current Medical Research and Opinion* 20(11): 1711-27.

Lowe CU, Mackinney D and Sarkaria D (1955): Effects of cortisone on rat liver mitochondria. *Journal of Biophysics and Biochemical Cytology* 1: 237-44.

Lozewicz S, Wells C, Gomez E, Ferguson H, Richman P, Devalia J and Davies RJ (1990): Morphological integrity of the bronchial epithelium in mild asthma. *Thorax* 45: 12-15.

Lungarella G, Menegazzi R, Gardi C, Spessotto P, de Santi MM, Bertocin P, Patriarca P, Calzoni P and Zabucchi G (1992): Identification of elastase in human eosinophils: immunolocalization, isolation, and partial characterization. *Archives of Biochemistry and Biophysics* 292: 128-35.

Macatonia SE, Hosken NA, Litton M, Vieira P, Hsieh CS, Culpepper JA, Wysocka M, Trinchieri G, Murphy KM and O'Garra A (1995): Dendritic cells produce IL-12 and direct the development of Th1 cells from naive CD4+ T cells. *Journal of Immunology* 154: 5071-9.

Macgregor AM and Greenberg RA (1993): Effect of surgically induced weight loss on asthma in the morbidly obese. *Obesity Surgery* 3: 15-21.

Maddox I and DA Schwartz (2002): The pathophysiology of asthma. *Annual Review of Medicine* 53: 477-98.

Maes L, Berghe DV, Germonprez N, Quirijnen L, Cos P, De Kimpe N and Van Puyvelde L (2004): *In Vitro* and *In Vivo* activities of a triterpenoid saponin extract (PX-6518) from the *Plant maesa balansae* against visceral leishmania species. *Antimicrobial Agents and Chemotherapy* 48(1): 130-6.

Malo JL, Lemiere C, Gautrin D and Labrecque M (2004): Occupational asthma. *Current Opinion in Pulmonary Medicine* 10(1): 57-61.

Manz RA, Thiel A and Radbruch A (1997): Lifetime of plasma cells in the bone marrow. *Nature* 388: 133.

Marketos SG and Ballas CN (1982): Bronchial asthma in the medical literature of Greek antiquity. *J Asthma* 19(4): 263-9.

Marks GB, Colquhoun JR, Girgis ST, Koski MH, Treloar AB, Hansen P, *et al.* (2001): Thunderstorm outflows preceding epidemics of asthma during spring and summer. *Thorax* 56 (6): 468-71.

Marone G, Granata F, Spadaro G, Onorati AM and Triggiani M (1999): Antiinflammatory effects of oxatomide. *Journal of Investigational Allergology and Clinical Immunology* 9(4): 207-14.

Marti O, Marti J and Armario A (1994): Effects of chronic stress on food intake in rats: influence of stressor intensity and duration of daily exposure. *Physiology and Behaviour* 55: 747-53.

Martin RJ (2002): Therapeutic significance of distal airway inflammation in asthma. *Journal of Allergy and Clinical Immunology* 109: S447-60.

Martinez FD, Wright AL, Taussig LM, Holberg CJ, Halonen M and Morgan WJ (1995): Asthma and wheezing in the first six years of life. The Group Health Medical Associates. *New England Journal of Medicine* 332(3): 133-8.

Martinez-Vazquez M, Apan TOR, Lazcano ME and Bye R (1999): Anti-inflammatory active compounds from the n-hexane extract of *Euphorbia hirta*. *Revista de la Sociedad Quimica de Mexico* 433 (4): 103-5.

Masoli M, Fabian D, Holt S and Beasley R (2004): The global burden of asthma: executive summary of the GINA Dissemination Committee Report. *Allergy* 59 (5): 469-78.

Mathew KK and Shivpuri DN (1974): Treatment of asthma with alkaloids of *Tylophora indica*: a double blind study. *Aspects of Allergy and Applied Immunology* 7: 166-79.

McCarter YS and Robinson A (1997): Comparison of MRC-5 and primary rabbit kidney cells for the detection of herpes simplex virus. *Archives of Pathology and Laboratory Medicine* 121 (2) 122-4.

McGeady SJ (2004): Immunocompetence and allergy. *Paediatrics* 113 (4): 1107-13.

McIntire KR and Princler GL (1969): Prolonged adjuvant stimulation in germ-free BALB/c mice: development of plasma cell neoplasia. *Immunology* 17(3): 481-7.

McKay A, Leung BP, McInnes IB, Thomson NC and Liew FY (2004): A novel anti-inflammatory role of simvastatin in a murine model of allergic asthma. *Journal of Immunology* 172: 2903-8.

McLendon C, Tucci M, Hamadain and Benghuzzi (2006): Differential effects of cortisol on MRC-5 fibroblasts and hypertrophic LL-29 fibroblasts. *Biomedical Sciences Instrumentation* 42: 344-9.

McMillan SJ and Lloyd CM (2004): Prolonged allergen challenge in mice leads to persistent airway remodelling. *Clinical and Experimental Allergy* 34: 497-507.

McRae J, Yang Q, Crawford R and Palombo E (2007): Review of the methods used for isolating pharmaceutical lead compounds from traditional medicinal plants. *Environmentalist* 27: 165–74.

Meagher LC, Cousin JM, Seckl JR and Haslett C (1996): Opposing effects of glucocorticoids on the rate of apoptosis in neutrophilic and eosinophilic granulocytes. *Journal of Immunology* 156(11): 4422-8.

Meininger CJ and Zetter BR (1992): Mast cells and angiogenesis. *Seminars in Cancer Biology* 3: 73-9.

Mekhfi H, El Haouari M, Legssyer A, Bnouham M, Aziz M, Atmani F, Remmal A and Ziyat A (2004): Platelet anti-aggregant property of some Moroccan medicinal plants. *Journal of Ethnopharmacology* 94: 317-22.

Melen E, Wickman M, Nordvall SL, van Hage-Hamsten M and Lindfors A (2001): Influence of early and current environmental exposure factors on sensitization and outcome of asthma in pre-school children. *Allergy* 56(7): 646-52.

Mendelson CR and Synder JM (1985): Effect of cortisone on the synthesis of lamellar body glycerophospholipids in fetal rabbit lung tissue *in vitro*. *Biochimica et Biophysica Acta* 834 (1): 85-94.

Mensah AY, Houghton PJ, Dickson RA, Fleischer TC, Heinrich M and Bremner P (2006): In Vitro evaluation of effects of two Ghanaian plants relevant to wound healing. *Phytotherapy Research* 20 (11): 941-4.

Merlin JL, Marchal S, Ramacci C, Berlion M and Poullain MG (2002): Enhancement of fotemustine (Muphoran) cytotoxicity by amifostine in malignant melanoma cell lines. *Preclinical Report. Anti-Cancer Drugs* 13(2): 141-7.

Mialovyts'ka OA. (2003): Effect of phlogenzym in long-term treatment of patients with multiple sclerosis. *Sprava Lik* (3-4): 109-13.

Mickleborough TD, Lindley MR, Ionescu AA and Fly AD (2006): Protective effect of fish oil supplementation on exercise-induced bronchoconstriction in asthma. *Chest* 129: 39-49.

Miller AL (2001): The etiologies, pathophysiology and alternative/complementary treatment of asthma. *Alternative Medicine Reviews* 6(1): 20-47.

Miller AL and Lukacs NW (2004): Chemokine receptors: understanding their role in asthmatic disease. *Immunology and Allergy Clinics of North America* 24(4): 667-83.

Miller-Larsson A and Selroos O (2006): Advances in asthma and COPD treatment: Combination therapy with inhaled corticosteroids and long-acting  $\beta$  [2]-agonists. *Curr Pharmaceutical Design* 12 (25): 3261-79.

Min SY (1997): A study on anti-thrombic action of Korean Herbal Medicine, Dae-Jo-Whan and its herbs. Thesis of Master, Dongguk University Graduate School, Kyungju, Korea.

Ming-Chun W, Chun-Hua W, Zhao-Qiu H, Kamal S, Jimmy K, Su-Ting X, Dong-Zhen M, Ji-Bin D, Guo-Hua L, Hugh S, Meyer K and Xiu-Min L (2005): Efficacy and tolerability of antiasthma herbal medicine intervention in adult patients with moderate-severe allergic asthma. *Journal of Allergy and Clinical Immunology* 116 (3): 517-24.

Miyata T, Isohama Y, Tai S, Kai H and Takahama K (1999): Pathopharmacological evaluation of Bakumondo-to (Maimengdongtang) as a curative for chronic inflammatory airway diseases. In: Watanabe H, Shibuya T, editors. *Pharmacological research on traditional herbal medicine*. Amsterdam: Harwood Academic Publishers, 121-47.



Moghaddam FM, Farimani MM, Salahvarzi S and Amin G (2007): Chemical constituents of dichloromethane extract of cultivated *Satureja khuzistanica*. Evidence Based Complementary and Alternative Medicine 4(1): 95-98.

Mohamadzadeh M, Poltorak AN, Bergstressor PR, Beutler B and Takashima A (1996): Dendritic cells produce macrophage inflammatory protein-1 gamma, a new member of the CC chemokine family. Journal of Immunology 156: 3102-6.

Moller GM, Overbeek SE, Van Helden-Meeuwssen CG, Van Haarst JM, Prens EP, Mulder PG, Postma DS and Hoogsteden HC (1996): Increased numbers of dendritic cells in the bronchial mucosa of atopic "asthmatic" patients: downregulation by inhaled corticosteroids. Clinical and Experimental Allergy 26: 517-424.

Montefort S, Gratziau C, Goulding D, Polosa R, Haskard DO, Howarth PH, Holgate ST and Carroll MP (1994): Bronchial biopsy evidence for leukocyte infiltration and upregulation of leukocyte-endothelial cell adhesion molecules 6 hours after local allergen challenge of sensitized "asthmatic" airways. Journal of Clinical Investigation 93: 1411-21.

Morley J, Sanjar S and Page CP (1984): The platelet in asthma. Lancet 1: 1142-4.

Moser M, De Smedt T, Sornasse T, Tielemans F, Chentoufi AA, Muraille E, Van Mechelen M, Urbain J and Leo O (1995): Glucocorticoids down-regulate dendritic cell function *in vitro* and *in vivo*. European Journal of Immunology 25: 2818-24.

Mosmann T (1983): Rapid colorimetric assay for cellular growth and survival: application to proliferation and cytotoxicity assays. Journal of Immunological Methods 65: 55-63.

Mosmann R and Coffman RL (1989): Th1 and Th2 cells: different patterns of lymphokine secretion lead to different functional properties. Annual Review of Immunology 7: 145-73.

Mullings RE, Wilson SJ, Puddicombe SM, *et al.* (2001): Signal transducer and activator of transcription 6 (STAT-6) expression and function in asthmatic bronchial epithelium. *Journal of Allergy and Clinical Immunology* 108: 832-8.

Musabayane CT, Mahlalela N, Shode FO and Ojewole JAO (2005): Effects of *Syzygium cordatum* (Hochst) [Myrtaceae] leaf extract on plasma glucose and hepatic glycogen in streptozotocin-induced diabetic rats. *Journal of Ethnopharmacology* 97: 485-90.

Nadeem A, Chhabra SK, Masood A and Raj HG (2003): Therapeutic augmentation of the antioxidant defenses might be beneficial. *Journal of Allergy and Clinical Immunology* 11: 72-8.

Nadel JA and Busse WW (1998): Asthma. *American Journal of Respiratory and Critical Care Medicine* 157: 5130-8.

Nafstad P, Kongerud J, Botten G, Hagen JA and Jaakkola JJ (1997): The role of passive smoking in the development of bronchial obstruction during the first 2 years of life. *Epidemiology* 8(3): 293-7.

Nagao K, Akabane H, Masuda T, Komai M, Tanaka H and Nagai H (2004): Effect of MX-68 on airway inflammation and hyper-responsiveness in mice and guinea pigs. *The Journal of Pharmacy and Pharmacology* 56(2): 187-96.

Nagata Y, Matsumura F, Motoyoshi H, Yamasaki H, Fukuda K and Tanaka S (1992): Secretion of hyaluronic acid from synovial fibroblasts is enhanced by histamine: a newly observed metabolic effect of histamine. *The Journal of Laboratory and Clinical Medicine* 120: 707-12.

Nasser SM, Pfister R, Christie PE, Sousa AR, Barker J, Schmitz-Schumann M, *et al.* (1996): Inflammatory cell populations in bronchial biopsies from aspirin - sensitive asthmatic subjects. *American Journal of Respiratory and Critical Care Medicine* 153(1): 90-6.

National Heart, Lung and Blood Institute (NHLBI) (2003): Report of a working group of extramural experts, entitled "Future Research Directions in Asthma". April 9-10.

National Heart, Lung and Blood Institute. Expert Panel Report 2 (1997): Guidelines for The diagnosis and management of asthma. Bethesda, MD: NIH Publication No: 97-4051.

Neuman I, Nahum H and Ben-Amotz A (2000): Reduction of exercise-induced asthma oxidative stress by lycopene, a natural antioxidant. *Allergy* 55: 1184-9.

Newman LS (1995): Occupational asthma. Diagnosis, management, and prevention. *Clinics in Chest Medicine* 16(4): 621-36.

Nguyen LT, Lim S, Oates T and Chung KF (2005): Increase in airway neutrophils after oral but not inhaled corticosteroid therapy in mild asthma. *Respiratory Medicine* 99: 200-7.

Nicholson PJ, Cullinan P, Taylor AJ, Burge PS and Boyle C (2005): Evidence based guidelines for the prevention, identification and management of occupational asthma. *Journal of Occupational and Environmental Medicine* 62(5): 290-9.

Nyström L, Paasonen A, Lampi A-M and Piironen V (2007): Total plant sterols, steryl ferulates and steryl glycosides in milling fractions of wheat and rye. *Journal of Cereal Science* 45(1): 106-15.

Ober C (2005): Perspectives on the past decade of asthma genetics. *Journal of Allergy and Clinical Immunology* 116(2): 274-8.

Obi E, Akunyili DN, Ekpo B and Orisakwe OE (2006): Heavy metal hazards of Nigerian herbal remedies. *The Science of the Total Environment* 369(1-3): 35-41.

Ohno I, Lea RG, Flanders KC, Clark DA, Banwatt D, Dolovich J, Denburg J, Harley CB, Gauldie J and Jordana M (1992): Eosinophils in chronically inflamed human upper airway tissues express transforming growth factor beta 1 gene (TGF beta 1). *Journal of Clinical Investigation* 89: 1662-8.

Ohno I, Ohtani H, Nitta Y, Suzuki J, Hoshi H, Honma M, Isoyama S, Tanno Y, Tamura G, Yamauchi K, Nagura H and Shirato K (1997): Eosinophils as a source of matrix metalloproteinase-9 in "asthmatic" airway inflammation. *American Journal of Respiratory Cell and Molecular Biology* 16: 212-9.

Oliver B (1959): *Medicinal Plants in Nigeria* (first edition). College of Arts Science and Technology Ibadan Nigeria 138-149.

Olivieri D, Chetta A, Del Donno M, Bertorelli G, Casalini A, Pesci A, Testi R and Foresi A (1997): Effect of short-term treatment with low-dose inhaled fluticasone propionate on airway inflammation and remodelling in mild asthma: a placebo-controlled study. *American Journal of Respiratory and Critical Care Medicine* 155: 1864-71.

Ordonez CL, Khashaya R, Wong HH, Ferando R, Wu R, Hyde DM, Hotchkiss JA, Zhang Y, Novikov A, Dolganov G and Fahy JV (2001): Mild and moderate asthma is associated with airway goblet cell hyperplasia and abnormalities in mucin gene expression. *American Journal of Respiratory and Critical Care Medicine* 163: 517-23.

Ordoñez CL, Shaughnessy TE, Matthay MA and Fahy JV (2000): Increased neutrophil numbers and IL-8 levels in airway secretions in acute severe asthma clinical and biologic significance. *American Journal of Respiratory and Critical Care Medicine* 161 (4): 1185-90.

Ottenweller JE, Servatius RJ, Tapp WN, Drastal SD, Bergen MT and Natelson BH (1992): A chronic state in rats: Effects of repeated stress on basal corticosterone and behaviour. *Physiology and Behaviour* 51: 689-98.

Ownby DR, Johnson CC and Peterson EL (2002): Exposure to dogs and cats in the first year of life and risk of allergic sensitization at 6 to 7 years of age. *Journal of the American Medical Association* 288(8): 963-72.

Pabst R (2003): Animal models for asthma: controversial aspects and unsolved problems. *Pathobiology* 70: 252-4.

Padigel UM and Farrell JP (2005): Control of Infection with *Leishmania* major in susceptible BALB/c mice lacking the common-chain for fcr is associated with reduced production of IL-10 and TGF- $\beta$  by parasitized cells. *The Journal of Immunology* 174: 6340-5.

Paggiaro PL, Bancalari AL, Giannessi D, Bernini W, Lazzerini G, Sicari R, Bacci E, Dente FL, Vagaggini B and De Caterina R (1995): Effects of systemic glucocorticosteroids on peripheral neutrophil functions in asthmatic subjects: an ex vivo study. *Mediators of Inflammation* 4: 251-6.

Pahl A (2006): Strategies for the Improvement of Asthma Therapy (Editorial). *Current Pharmaceutical Design* 12(25): 3173-4.

Pahl A, Benediktus E and Chialda L (2006): Pharmacogenomics of Asthma. *Current Pharmaceutical Design* 12(25): 3195-206.

Palmar LJ, Burton PR, Faux JA, James AL, Musk AW and Cookson WO (2000): Independent inheritance of serum Immunoglobulin E concentrations and airway responsiveness. *American Journal of Respiratory and Critical Care Medicine* 161: 1836-43.

Panettieri RA Jr (1998): Cellular and molecular mechanisms regulating airway smooth muscle proliferation and cell adhesion molecule expression. *American Journal of Respiratory and Critical Care Medicine* 158 (Part 3): S133-40.

Panettieri RA Jr (2004): Airway smooth muscle: immunomodulatory cells? Allergy and Asthma Proceedings 25: 381-6.

Panettieri RA Jr, Hall IP, Maki CS and Murray RK (1995): alpha-thrombin increases cytosolic calcium and induces human airway smooth muscle cell proliferation. American Journal of Respiratory Cell and Molecular Biology 13: 205-16.

Park SJ and Lee YC (2006): Antioxidants as Novel Agents for Asthma. Mini Reviews in Medicinal Chemistry 6 (2): 235-240.

Partridge MR, Dockrell M and Smith NM (2003): The use of complementary medicines by those with asthma. Respiratory Medicine 97: 436-8.

Patsoukis N, Zervoudakis G, Georgiou CD, Angelatou F, Matsokis NA and Panagopoulos NT (2004): Effect of pentylenetetrazol-induced epileptic seizure on thiol redox state in the mouse cerebral cortex. Epilepsy Research 62 (1): 65-74.

Patwardhan B and Gautam M (2005): Botanical immunodrugs: scope and opportunities. Drug Discovery Today 10: 495-502.

Pauwels RA, Lofdahl CG, Postma DS, Tattersfield AE, O'Byrne P, Barnes PJ, *et al.* (1997): Effect of inhaled formoterol and budesonide on exacerbations of asthma. Formoterol and Corticosteroids Establishing Therapy (FACET) International Study Group. New England Journal of Medicine 337(20): 1405-11.

Pawlowski A, Haberman HF and Menon IA (1979): The effects of hyalurodinase upon tumor formation in BALB/c mice painted with 7, 12-dimethylbenz-(a) anthracene. International Journal of Cancer 23(1): 105-9.

Pérez-García F, Marín E, Adzet T and Cañigual S (2001): Activity of plant extracts on the respiratory burst and the stress protein synthesis. *Phytomedicine* 8 (1): 31-8.

Persson MG, Friberg SG, Hedqvist P and Gustafsson LE (1993): Endogenous nitric oxide counteracts antigen-induced bronchoconstriction. *European Journal of Pharmacology* 249: R7-8.

Pesci A, Foresi A, Bertorelli G, Chetta A and Oliveri D (1993): Histochemical characteristics and degranulation of mast cells in epithelium and lamina propria of bronchial biopsies from "asthmatic" and normal subjects. *American Review of Respiratory Diseases* 147: 684-9.

Peters-Golden M (2004): The alveolar macrophage: the forgotten cell in asthma. *American Journal of Respiratory Cell and Molecular Biology* 31(1): 3-7.

Pincus SH, Ramesh KS and Wyler DJ (1987): Eosinophils stimulate fibroblast DNA synthesis. *Blood* 70: 572-4.

Pinkerton KE, Avadhanam KP, Peake JL and Plopper CG (1997): Tracheobronchial airways. In: Sipes IG, McQueen CA, Gandol AJ, eds. *Comprehensive Toxicology: Toxicology of the Respiratory System*. New York, Pergamon Press, Oxford, 23-44.

Pitchford SC, Riffo-Vasquez Y, Sousa A, Momi S, Gresele P, Spina D and Page CP (2004): Platelets are necessary for airway wall remodelling in a murine model of chronic allergic inflammation. *Blood* 103 (2): 639-47.

Pizzichini E, Pizzichini MM, Efthimiadis A, Evans S, Morris MM, Squillace D, Gleich GJ, Dolovich J, Hargreave FE (1996): Indices of airway inflammation in induced sputum: reproducibility and validity of cell and fluid-phase measurements. *American Journal of Respiratory and Critical Care Medicine* 154: 308-17.

Platts-Mills T, Vaughan J, Squillace S, Woodfolk J and Sporik R (2001): Sensitisation, asthma, and a modified Th2 response in children exposed to cat allergen: a population-based cross-sectional study. *Lancet* 357(9258): 752-6.

Plopper CG (1996): Structure and function of the lung. In: Jones TC, Dungworth DL, Mohr U, eds. *Respiratory System*, 2nd ed. New York, Springer; 135-50.

Ponec M, Kempenaar JA, Van Der Meulen-Van Harskamp, GA and Bachra BN (1979): Effects of glucocorticosteroids on cultured human skin fibroblasts. IV. Specific decrease in the synthesis of collagen but no effect on its hydroxylation. *Biochemical Pharmacology* 28: 2777-83.

Postma DS, Bleecker ER, Amelung PJ, Holroyd KJ, Xu J, Panhuysen CI, *et al.* (1995): Genetic susceptibility to asthma-bronchial hyperresponsiveness co-inherited with a major gene for atopy. *New England Journal of Medicine* 333 (14): 894-900.

Prescott SL (2003): New concepts of cytokines in asthma. Is the Th2/Th1 paradigm out of the window? *Journal of Paediatrics and Child Health* 39: 575-9.

Pretorius E, Briedenhann S, Marx J and Franz RC (2006): Structural changes in the fibrin network of a Pretoria family with dysfibrinogenaemia: a scanning electron microscopical study *Ultrastructural Pathology* 303: 167-76.

Pretorius E. (2005): Adverse reactions with particular focus on asthma occurring in a dental practice. In: Miroslav Tersa ed *Trends in Asthma Research* Nova Biomedical Books.

Pretorius E, Humphries P, Ekpo OE, Smit E, van der Merwe CF (2007): comparative ultrastructural analyses of mouse, rabbit and human platelets and fibrin networks. *Microscopy Research and Techniques* 70(9): 823-7.



Puxeddu I and Levi-Schaffer F (2004): Mast cells and eosinophils: the hallmark of asthma. *Paediatric Respiratory Review* (5A): 31-4.

Quinn BP, Bernier U R and Booth MM (2007): Identification of compounds from *Etonia* rosemary (*Conradina etonia*). *Journal of Chromatography A* 1160 (1-2): 306-10.

Rabe KF, Munoz NM, Vita AJ, Morton BE, Magnussen H and Leff AR (1994): Contraction of human bronchial smooth muscle caused by activated human eosinophils. *American Journal of Physiology* 267: L326-34.

Rahman K and Billington D (2000): Dietary supplementation with aged garlic extract inhibits ADP-induced platelet aggregation in humans. *Human Nutrition and Metabolism Research Communication* 130: 2662-5.

Ramalingam A, Hirai A and Thompson EA (1997): Glucocorticoid Inhibition of Fibroblast Proliferation and Regulation of the Cyclin Kinase Inhibitor p21Cip. *Molecular Endocrinology* 11: 577-86.

Remberger K and Hubner G (1974): Rhabdomyomatous dysplasia of the lung. *Virchows Arch A Pathol Anath Histol* 363:363-9.

Renauld JC (2001): New insights into the role of cytokines in asthma. *Journal of Clinical Pathology* 54: 577-89.

Retana-Ma´rquez S, Bonilla-Jaime H, Va´zquez-Palacios G, Domi´nguez-Salazar E, Marti´nez-Garcia R and Vela´zquez-Moctezuma J (2003): Body weight gain and diurnal differences of corticosterone changes in response to acute and chronic stress in rats. *Psychoneuroendocrinology* 28: 207-27.

Reynolds RD and Natta CL (1985): Depressed plasma pyridoxal phosphate concentrations in adult asthmatics. *American Journal of Clinical Nutrition* 41: 684-8.

Ricciardolo FL, Sterk PJ, Gaston B and Folkerts G (2004): Nitric oxide in health and disease of the respiratory system. *Physiology Reviews* 84(3): 731-65.

Richardson JA and Burns DK (2002): Mouse models of Alzheimer's disease: A quest for plaques and tangles. *Journal of the Institute of Laboratory Animal Research* 43: 89-99.

Rieske P, Krynska B and Azizi SA (2005): Human fibroblast-derived cell lines have characteristics of embryonic stem cells and cells of neuro-ectodermal origin. *Differentiation* 73 (9-10): 474-83.

Rinehart JJ, Balcerzak SP, Sagone AL and LoBuglio AF (1974): Effects of corticosteroids on Human Monocyte Function. *Journal of Clinical Investigation* 54(6): 1337-43.

Robinson D, Hamid Q, Bentley A, Ying S, Kay AB and Durham SR (1993): Activation of CD41 T cells, increased Th2-type cytokine mRNA expression, and eosinophil recruitment in bronchoalveolar lavage after allergen inhalation challenge in patients with atopic asthma. *Journal of Allergy and Clinical Immunology* 92: 313-24.

Robinson DS (2004): The role of the mast cell in asthma: induction of airway hyperresponsiveness by interaction with smooth muscle? *Journal of Allergy and Clinical Immunology* 114(1): 58-65.

Robinson DS, Hamid Q, Ying S, Tsicopoulos A, Barkans J, Bentley AM, Corrigan C, Durham SR and Kay AB (1992): Predominant Th2-like bronchoalveolar T-lymphocyte population in atopic asthma. *New England Journal of Medicine* 326: 298-304.

Roche WR, Beasley R, Williams JH and Holgate ST (1989): Subepithelial fibrosis in the bronchi of asthmatics. *Lancet* 1: 520-4.

Rogério AP, Sá-Nunes A, Albuquerque DA, Aníbal FF, Medeiros AI, Machado ER, Souza AO, Prado JC Jr and Faccioli LH (2003): *Lafoensia pacari* extract inhibits IL-5 production in toxocariasis. *Parasite Immunology* 25: 393-400.

Roming TL, Weber ND, Murray BK, North JA, Wood SG, Hughes BG and Cates RG (2006): Antiviral activity of Panamanian plant extracts. *Phytotherapy Research* 6 (1): 38 - 43.

Rosenstreich DL, Eggleston P, Kattan M, Baker D, Slavin RG, Gergen P, *et al.* (1997): The role of cockroach allergy and exposure to cockroach allergen in causing morbidity among inner-city children with asthma. *New England Journal of Medicine* 336(19): 1356-63.

Rosner F (1981): Moses Maimonides' treatise on asthma. *Thorax* 36: 245-51.

Ruoss SJ, Hartmann T and Caughey GH (1991): Mast cell tryptase is a mitogen for cultured fibroblasts. *Journal of Clinical Investigation* 88: 493-9.

Rylander R, Dahlberg C and Rubenowitz E (1997): Magnesium supplementation decreases airway responsiveness among hyperreactive subjects. *Magnesium-Bulletin* 19: 4-6.

Saetta M and Turato G (2001): Airway pathology in asthma. *The European Respiratory Journal* 18: (34): 18-23.

Saetta M, Baraldo S, Corbino L, *et al.* (1999): CD8+ve cells in the lungs of smokers with chronic obstructive pulmonary disease. *American Journal of Respiratory and Critical Care Medicine* 160: 711-7.

Saetta M, Di Stefano A, Maestrelli P, Ferrarresso A, Drigo R, Potena A, Ciaccia A and Fabbri LM (1993): Activated T-lymphocytes and macrophages in bronchial mucosa of subjects with chronic bronchitis. *American Review of Respiratory Diseases* 147(2): 301-6.

Saldanha JCS, Gargiulo DL, Silva SS, Carmo-Pinto FH, Andrade MC, Alvarez-Leite JI, Teixeira MM and Cara DC (2004): A model of chronic IgE-mediated food allergy in ovalbumin-sensitized mice. *Brazilian Journal of Medical and Biological Research* 37(6): 809-16.

Santos LC, Honda NK, Carlos IZ and Vilegas W (2004): Intermediate reactive oxygen and nitrogen from macrophages induced by Brazilian lichens. *Fitoterapia* 75 (5): 473-9.

Sá-Nunes A , Rogerio AP, Medeiros AI, Fabris VE, Andreu GP, Rivera DG, Delgado R and Faccioli LH (2006): Modulation of eosinophil generation and migration by *Mangifera indica* L. extract (Vimang). Preliminary report *International Immunopharmacology* 6: 1515-23.

Sastre J, Vandenas O and Park HS (2003): Pathogenesis of occupational asthma. *The European Respiratory Journal* 22(2): 364-73.

Satthaporn S and Eremin O (2001): Scientific Review - Dendritic cells (I): Biological functions. *Journal of the Royal College of Surgeons of Edinburgh* 46: 9-20.

Schaan BD and Machado UF (2006): Glucose transporters in animal models of diabetes and hypertension. *American Journal of Physiology and Renal Physiology* 291: F702-3.

Schieken LS (2002): Asthma pathophysiology and the scientific rationale for combination therapy. *Allergy and Asthma Proceedings* 23: 247-51.

Schlick W (1993): Current issues in the assessment of interstitial lung disease. *Monaldi Archives for Chest Disease* 48: 237-44.

Schmidt D, Ruehlmann E, Branscheid D, Magnussen H and Rabe KF (1999): Passive sensitization of human airways increases responsiveness to leukotriene C4. *European Respiratory Journal* 14(2): 315-9.

Schuster M, Tschernig T, Krug N and Pabst R (2000): Lymphocytes migrate from the blood into the bronchoalveolar lavage and lung parenchyma in the asthma model of the brown Norway rat. *American Journal of Respiratory and Critical Care Medicine* 161: 558-66.

Schwiebert LA, Beck LA, Stellato C, Bickel CA, Bochner BS and Schleimer RP (1996): Glucocorticosteroid inhibition of cytokine production: relevance to antiallergic actions. *Journal of Allergy and Clinical Immunology* 97: 143-52.

Sculpher MJ and Price M (2003): Measuring costs and consequences in economic evaluation in asthma. *Respiratory Medicine* 97 (5): 508-20.

Sears MR, Greene JM, Willan AR, Wiecek EM, Taylor DR, Flannery EM, *et al.* (2003): A longitudinal, population-based, cohort study of childhood asthma followed to adulthood. *New England Journal of Medicine* 349(15): 1414-22.

Secor Jr ER, Carson IV WF, Cloutier MM, Guernsey LA, Schramm CM, Wu CA and Thrall RS (2005): Bromelain exerts anti-inflammatory effects in an ovalbumin-induced murine model of allergic airway disease. *Cellular Immunology* 237: 68-75.

Setlow RB, Woodhead AD and Grist E (1989): Animal model for ultraviolet radiation-induced melanoma: Platyfish-swordtail hybrid. *Proceedings of the National Academy of Sciences USA (Genetics)* 86: 8922-6.

Shahana S, Björnsson E, Ludviksdóttir D, Jansson C, Nettelbladt O, Venge P and Roomans GM (2003): Ultrastructure of bronchial biopsies from patients with atopic and non-atopic asthma. *American Journal of Respiratory and Critical Care Medicine* 167: 450-71.

Shaheen SO, Aaby P, Hall AJ, Barker DJ, Heyes CB, Shiell AW, *et al.* (1996): Measles and atopy in Guinea-Bissau. *Lancet* 347(9018): 1792-6.

Sharma NK, Dey S, Prasad R (2007): *In vitro* antioxidant potential evaluation of *Euphorbia hirta* L. *Pharmacology online* 1: 91-98.

Shaver JR, Zangrilli JG, Cho SK, Cirelli RA, Pollice M, Hastie AT, Fish JE and Peters SP (1997): Kinetics of the development and recovery of the lung from IgE-mediated inflammation: dissociation of pulmonary eosinophilia, lung injury, and eosinophil-active cytokines. *American Journal of Respiratory and Critical Care Medicine* 155: 442-8.

Shebani E, Shahana S, Janson C, Roomansa GM, on behalf of the BHR group<sup>1</sup> (2005): Attachment of columnar airway epithelial cells in asthma. *Tissue and Cell* 37:145-52.

Sheffer AL, Bousquet J, Busse WW, *et al.* (1992): International consensus report on diagnosis and treatment of asthma. *European Journal of Respiration* 5: 601-41.

Sheppard MN and Harrison NK (1992): New perspectives on basic mechanisms in lung disease: Lung injury, inflammatory mediators, and fibroblast activation in fibrosing alveolitis. *Thorax* 47: 1064-74.

Sheu B-S, Yang H-B, Wu J-J, Huang A-H, Lin X-Z and Su I-J (1999): Development of *helicobacter pylori* infection model in BALB/c mice with domestic cagA-Positive and-negative strains in Taiwan. *Digestive Diseases and Sciences* 44(5): 68-875.

Shinigawa K and Kojima M (2003): Mouse model of airway remodelling: strain differences. *American Journal of Respiratory and Critical Care Medicine* 168: 959-67.

Shinto L, Calabrese C, Morris C, Sinsheimer S and Bourdette D (2004): Complementary and alternative medicine in multiple sclerosis: survey of licensed naturopaths. *Journal of Alternative and Complementary Medicine* 10: 891-7.

Shivpuri DN, Sighal SC and Parkash D (1972): Treatment of asthma with an alcoholic extract of *tylophora indica*: a crossover doubleblind study. *Annals of Allergy* 30: 497-512.

Shore SA (2006): Obesity and asthma: cause for concern. *Current Opinion in Pharmacology* 6 (3): 230-6.

Shore SA and Fredberg JJ (2005): Obesity, smooth muscle and airway hyperresponsiveness. *Journal of Allergy and Clinical Immunology* 115(5): 925-7.

Shrader WA (2004): Short and long term treatment of asthma with intravenous nutrients. *Journal of Nutrition* 3: 6-13.

Sigurs N, Bjarnason R, Sigurbergsson F and Kjellman B (2000): Respiratory syncytial virus bronchiolitis in infancy is an important risk factor for asthma and allergy at age 7. *American Journal of Respiratory and Critical Care Medicine* 161(5): 1501-7.

Simon HU and Blaser K (1995): Inhibition of programmed eosinophil death: A key pathogenic event for eosinophilia? *Immunology Today* 16: 53.

Singh B, Nayak BP, Rao KVS and Sharma P (2000): Immune responses mediating survival of naive BALB/c mice experimentally infected with lethal rodent

malaria parasite, *Plasmodium yoelii nigeriensis*. *Microbes and infection* 2(5): 473-80.

Šipailiene A, Venskutonis PR, Šarkinas A and Cypiene V (2005): The Antimicrobial Action of the Fractions of Methanol, Acetone and Aqueous Extracts. *Veterinarija Ir Zootechnika* T 32:54.

Skidmore-Roth L (2001): *Mosby's Handbook of Herbs and Natural Supplements*. Mosby Inc.

Slader CA, Reddel HK, Jenkins CR., Armour CL. and Bosnic-Anticevich SZ (2006): Complementary and alternative medicine use in asthma: who is using what? *Respiratory* 11: 373-87.

Slater JW, Zechnich AD and Haxby DG (1999): Second-generation antihistamines: a comparative review. *Drugs* 57(1): 31-47.

Slifka MK, Antia R, Whitmire JK and Ahmed R (1998): Humoral immunity due to long-lived plasma cells. *Immunity* 8: 363.

Smith AD and Taylor DR (2005): Is exhaled nitric oxide measurement a useful clinical test in asthma? *Current Opinion in Allergy Clinical Immunology* 5(1): 49-56.

Snibson KJ, Bischof RJ, Slocombe RF and Meeusen ENT (2005): Airway remodelling and inflammation in sheep lungs after chronic airway challenge with house dust mite. *Clinical and Experimental Allergy* 35: 146-52.

Sofowora A (1984): *Medical Plants and Traditional Medicine in Africa*. First Edition, Chichester UK: John Wiley and Sons, 114-213.

Solway J and Irvin CG (2007): Airway Smooth Muscle as a Target for Asthma therapy (editorials). *New England Journal of Medicine* 356: 13.



Sont JK, van Krieken JH JM, Evertse CE, Neeskens P, Willems LNA and Sterk J (1997): Additional reduction in airway subepithelial reticular layer thickness can be obtained by a treatment strategy aimed at improving bronchial hyperresponsiveness (BHR) in asthma. *American Journal of Respiratory and Critical Care Medicine* 155: A502.

Soto CP, Perez BL, Favari LP and Reyes JL (1998): Prevention of Alloxan-Induced diabetes mellitus in the rat by silymarin - cardiovascular complications of diabetes mellitus: from glucose to insulin and back. *Comparative Biochemistry and Physiology - Part C: Pharmacology, Toxicology and Endocrinology* 119 (2): 125-9.

Spahn JD and Leung DYM (1999): Steroid-Resistant Asthma. Pathogenesis and Management. *Resident and Staff Physician* 45(3): 11-22.

Speakman J, Hambly C, Mitchell S and Król E (2007): Animal models of obesity. *Obesity Reviews* 8 (Suppl 1): 55-61.

Sporik R, Ingram JM, Price W, Sussman JH, Honsinger RW and Platts-Mills TA (1995): Association of asthma with serum IgE and skin test reactivity to allergens among children living at high altitude: Tickling the dragon's breath. *American Journal of Respiratory and Critical Care Medicine* 151(5): 1388-92.

Stein RT, Sherrill D, Morgan WJ, Holberg CJ, Halonen M, Taussig LM, *et al.* (1999): Respiratory syncytial virus in early life and risk of wheeze and allergy by age 13 years. *Lancet* 354 (9178): 541-5.

Steinke JW and Borish L (2001): Th2 cytokines and asthma - Interleukin-4: its role in the pathogenesis of asthma, and targeting it for asthma treatment with interleukin-4 receptor antagonists. *Respiratory Research* 2: 66-70.

Stenius-Aarniala B, Poussa T, Kvarnstrom J, Gronlund EL, Ylikahri M and Mustajoki P (2000): Immediate and long-term effects of weight reduction in obese

people with asthma: randomised controlled study. *British Medical Journal* 320: 827-32.

Stevenson DD (1984): Diagnosis, prevention, and treatment of adverse reactions to aspirin and nonsteroidal anti-inflammatory drugs. *Journal of Allergy and Clinical Immunology* 74(4 Pt 2): 617-22.

Strachan DP (1989): Hay fever, hygiene and household size. *British Medical Journal* 299(6710): 1259-60.

Strachan DP and Cook DG (1998): Health effects of passive smoking, parental smoking and childhood asthma: longitudinal and case control studies. *Thorax* 53(3): 204-12.

Strachan DP and Cook DG (1998): Health effects of passive smoking. Parental smoking and allergic sensitisation in children. *Thorax* 53(2): 117-23.

Sue-Chu M, Larsson L, Moen T, Rennard SI and Bjermer L (1999): Bronchoscopy and bronchoalveolar lavage findings in cross-country skiers with and without "ski asthma." *The European Journal of Respiration* 13: 626-32.

Suissa S, Ernst P, Benayoun S, Baltzan M and Cai B (2000): Low-dose inhaled corticosteroids and the prevention of death from asthma. *New England Journal of Medicine* 343(5): 332-6.

Sullivan P, Bekir S, Jaffar Z, Page C, Jeffery P and Costello J (1994): Anti-inflammatory effects of low-dose oral theophylline in atopic asthma. *Lancet* 343(8904): 1006-8.

Sur S, Crotty TB, Kephart GM, Hyma BA, Colby TV, Reed CE, Hunt LW and Gleich GJ (1993): Sudden-onset fatal asthma: A distinct entity with few eosinophils

and relatively more neutrophils in the airway submucosa? *American Reviews of Respiratory Diseases* 148: 713-9.

Synek M, Anto JM, Beasley R, Frew AJ, Halloway L, Lampe FC, Lloreta JL, Sunyer J, Thornton A and Holgate ST (1996): Immunopathology of fatal soybean dust-induced asthma. *The European Journal of Respiration* 9: 54-7.

Szczeklik A and Stevenson DD (2003): Aspirin-induced asthma: advances in pathogenesis, diagnosis and management *Journal of Allergy and Clinical Immunology* 111(5): 913-21.

Szczeklik A, Nizankowska E and Duplaga M (2000): Natural history of aspirin-induced asthma. AIANE Investigators. European Network on Aspirin-Induced Asthma. *The European Journal of Respiration* 16(3): 432-6.

Szczeklik A, Sanak M, Nizankowska-Mogilnicka E and Kielbasa B (2004): Aspirin intolerance and the cyclooxygenase-leukotriene pathways. *Current Opinion in Pulmonary Medicine* 10(1): 51-6.

Tadao E, Lei C and Taro S (2004): Th1/Th2 Theory in allergic rhinitis and asthma. *Progress in Medicinal Chemistry* 24(12): 3167-72 (Article in Japanese).

Taha RA, Minshall EM, Miotto D, Shimbara A, Luster A, Hogg JC and Hamid QA (1999): Eotaxin and monocyte chemoattractant protein-4 mRNA expression in small airways of asthmatic and nonasthmatic individuals. *Journal of Allergy and Clinical Immunology* 103: 476-83.

Takano H, Osakabe N, Sanbongi C, Yanagisawa R, Inoue K, Yasuda A, Natsume M, Baba S, Ichiishi Ei-I and Yoshikawa T (2004): Extract of *Perilla frutescens* enriched for rosmarinic acid, a polyphenolic phytochemical, inhibits seasonal allergic rhinoconjunctivitis in humans. *Experimental Biology and Medicine* 229: 247-54.

Tattersfield A, Löfdahl CG, Postma DS, Eivindson A, Schreurs AGM, Rasidakis A and Ekström T (2001): Comparison of formoterol and terbutaline for as-needed treatment of asthma: A randomised trial. In: *Lancet* 357: 257-61.

Tattersfield AE and Hall IP (2004): Are beta2-adrenoceptor polymorphisms important in asthma-an unravelling story? *Lancet* 364(9444): 1464-6.

Taube C, Dakhama A, Takeda K, Nick JA and Gelfand EW (2003): Allergen-specific early neutrophil infiltration after allergen challenge in a murine model. *Chest* 123: 410-1.

Teran LM, Carroll MP, Shute JK and Holgate ST (1999): Interleukin 5 release into asthmatic airways 4 and 24 hours after endobronchial allergen challenge: Its relationship with eosinophil recruitment. *Cytokine* 11: 518-22.

The childhood Asthma Management Program Research Group (2000): Long-term effects of budesonide or nedocromil in children with asthma. *New England Journal of Medicine* 343(15): 1054-63.

Global Strategy for Asthma Management and Prevention (2006): The GINA reports 2006. Retrieved April 2006 from [www.ginasthma.org](http://www.ginasthma.org).

Thisoda P, Rangkadilok N, Pholphana N, Worasuttayangkurn L, Ruchirawat S and Satayavivad J (2006): Inhibitory effect of *Andrographis paniculata* extract and its active diterpenoids on platelet aggregation. *European Journal of Pharmacology* 553: 39-45.

Thompson HL, Burbelo PD, Gabriel G, Yamada Y and Metcalfe DD (1991): Murine mast cells synthesize basement membrane components: a potential role in early fibrosis. *Journal of Clinical Investigation* 87: 619-23.

Thompson S (1984): On the social cost of asthma. *European Journal of Respiratory Diseases Supplement* 136: 185-91.

Tillie-Leblond I, Gosset P and Tonnel AB (2005): Inflammatory events in severe acute asthma. *Allergy* 1: 23-9.

Ting S, Mansfield LE and Yarbrough J (1983): Effects of ascorbic acid on pulmonary functions in mild asthma. *Journal of Asthma* 20: 39-42.

Tobin MJ (2001.): Asthma, airway biology, and allergic rhinitis in AJRCCM 2000. *American Journal of Respiratory and Critical Care Medicine* 164: 1559-80.

Togias A (2003): Rhinitis and asthma: evidence for respiratory system integration. *Journal of Allergy and Clinical Immunology* 111: 1171-83.

Tomatsu M, Ohnishi-Kameyama M and Shibamoto N (2003): Aralin, a new cytotoxic protein from *Aralia elata*, inducing apoptosis in human cancer cells. *Cancer Letters* 199 19-25.

Tomkinson A, Cieslewicz G, Duez C, *et al.* (2001): Temporal association between airway hyperresponsiveness and airway eosinophilia in ovalbumin-sensitized mice. *American Journal of Respiratory and Critical Care Medicine* 163: 721-30.

Touqui L, Hatmi M and Vargaftig BB (1985): Human platelets stimulated by thrombin produce platelet-activating factor (1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine) when the degrading enzyme acetyl hydrolase is blocked. *Biochemical Journal* 229: 811-16.

Tournoy KG, Kips JC and Pauwels RA (2001): The allergen-induced airway hyperresponsiveness in a human mouse chimera model of asthma is T cell and IL-4 and IL-5 dependent. *Journal of Immunology* 166: 6985-91.

Travis EL and Tucker SL (1986): The relationship between functional assays of radiation response in the lung and target cell depletion. *British Journal of Cancer* 53: 304-19.

Travis, WD *et al.* (2002): *Non-neoplastic disorders of the lower respiratory tract/* Publisher Washington, DC: American Registry of Pathology; Armed Forces Institute of Pathology; Bethesda, MD: Universities Associated for Research and Education in Pathology.

Trian T, Benard G, Begueret H, Rossignol R, Girodet PO, Ghosh D, Ousova O, Vernejoux JM, Marthan R, Tunon-de-Lara JM and Berger P (2007): Bronchial smooth muscle remodelling involves calcium-dependent enhanced mitochondrial biogenesis in asthma. *The Journal of Experimental Medicine* 204 (13): 3173-81

Trifilieff A, El-Hashim A and Bertrand C (2000): Time course of inflammatory and remodelling events in a murine model of asthma: effect of steroid treatment. *American Journal of Physiology: Lung Cellular and Molecular Physiology* 279 (6): L1120-28.

Trigg CJ, Manolitsis ND, Wang J, Calderon MA, McAulay A and Jordan SE (1994): Placebo-controlled immunopathologic study of four months of inhaled corticosteroids in asthma. *American Journal of Respiratory and Critical Care Medicine* 150: 17-22.

Tschumperlin DJ and Drazen JM (2001): Mechanical stimuli to airway remodelling. *Am American Journal of Respiratory and Critical Care Medicine* 164: S90-4.

Tulic MK, Christodoulouopoulos P and Hamid Q (2001): Small airway inflammation in asthma. *Respiratory Research* 2: 333-9.

Tunon-De-Lara JM, Redington AE, Bradding P, Church MK, Hartley JA, Semper AE and Holgate ST (1996): Dendritic cells in normal and "asthmatic" airways:

expression of the alpha subunit of the high affinity immunoglobulin E receptor (Fc epsilon RI-alpha). *Clinical and Experimental Allergy* 26: 648-55.

Tutluoglu B, Gurel CB, Ozdas SB, Musellim B, Erturan S, Anakkaya AN, Kilinc G, Ulutin T (2005): Platelet function and fibrinolytic activity in patients with bronchial asthma. *Clinical and Applied Thrombosis/Hemostasis* 11(1): 77-81.

Tyrell DJ, Kilfeather S and Page CP (1995): Therapeutic uses of heparin beyond its traditional role as an anticoagulant. *Trends in Pharmacological Sciences* 16: 198-204.

Umetsu D and DeKruyff R (2004): Editorial overview: novel concepts in the pathogenesis and therapy of allergy and asthma. *Springer Seminars in Immunopathology* 25 (3-4): 231-6.

Valentiner U, Weiser M, Moll I and Schumacher U (2003): The Effect of Homeopathic Plant Extract Solutions on the Cell Proliferation of Human Cutaneous Fibroblasts *in vitro*. *Research in Complementary and Classical Natural Medicine* 10: 122-7.

Van Eerdewegh P, Little RD, Dupuis J, Del Mastro RG, Falls K, Simon J, Torrey D, Pandit S, McKenny J, Braunschweiger K *et al.* (2002): Association of the ADAM33 with asthma and bronchial hyperresponsiveness. *Nature* 418 (6896): 426-30.

Van Furth R, Diesselhoff-den Dulk MC and Mattie H (1973): Quantitative study on the production and kinetics of mononuclear phagocytes during an acute inflammatory reaction. *Journal of Experimental Medicine* 138: 1314 -30.

van Wyk CW, Olivier A, de Miranda CM, van der Bijl P and Grobler-Rabie AF (1994): Observations on the effect of areca nut extracts on oral fibroblast proliferation. *Journal of Oral Pathology and Medicine* (4): 145-8.

Venables MK and Chan-Yeung M (1997): Occupational asthma. *Lancet* 349:1465-9.

Viana GSB, Medeiros ACC, Lacerda AMR, Leal LKAM, Vale TG and José de A Matos F (2004): Hypoglycemic and anti-lipemic effects of the aqueous extract from *Cissus sicyoides*. *BioMed Central Pharmacology* 4: 4–9.

Viana ME, Coates NH, Gavett SH, Selgrade MK, Vesper SJ and Ward MDW (2002): An extract of *stachybotrys chartarum* causes allergic asthma-like responses in BALB/c mouse model. *Toxicological Sciences* 70: 98-109.

Vieira RF and LA Skorupa (1993): Brazilian medicinal plants gene bank. *Acta Horticultura* 330: 51-8.

Vignola AM, Mirabella F, Costanzo G, Di Giorgi R, Gjomarkaj M, Bellia V, *et al.* (2003): Airway remodelling in asthma. *Chest* 123(3): 417-22.

Vilanova JR, Burgos-Bretones I, Aguirre TM, *et al.* (1983): Rhabdomyomatous dysplasia of lung and congenital diaphragmatic hernia. *Journal of Pediatric Surgery* 18: 201-3.

Virchow JC Jr, Walker C, Hafner D, Kortsik C, Werner P, Matthys H and Kroegel C (1995): T cells and cytokines in bronchoalveolar lavage fluid after segmental allergen provocation in atopic asthma. *American Journal of Respiratory and Critical Care Medicine* 151: 960-8.

Waalkens HJ, Van Essen-Zandvliet EE, Hughes MD, Gerritsen J, Duiverman EJ, Knol K, *et al.* (1993): Cessation of long-term treatment with inhaled corticosteroid (budesonide) in children with asthma results in deterioration. The Dutch CNSLD Study Group. *American Reviews of Respiratory Diseases* 148(5): 1252-7.



Wagers S, Norton R, Bates J and Irvin CG (2003): Role of fibrin in determining airway closure. *Chest* 123: 362-3.

Wagers SS, Norton RJ, Rinaldi LM, Bates JHT, Sobel BE and Irvin CG (2004): Extravascular fibrin, plasminogen activator, plasminogen activator inhibitors, and airway hyperresponsiveness. *Journal of Clinical Investigation* 114(1): 104-11.

Wahn U, Lau S, Bergmann R, Kulig M, Forster J, Bergmann K, *et al.* (1997): Indoor allergen exposure is a risk factor for sensitization during the first three years of life. *J Allergy Clin Immunol* 99(6 Pt 1): 763-9.

Walker C, Kaegi MK, Braun P and Blaser K (1991): Activated T cells and eosinophilia in bronchoalveolar lavages from subjects with asthma correlated with disease severity. *The Journal of Allergy and Clinical Immunology* 88: 935-42.

Walley AJ, Chavanas S, Moffatt MF, Esnouf RM, Ubhi B, Lawrence R, Wong K, Abecasis GR, Jones EY, Harper JI *et al.* (2001): Gene polymorphism in Netherton and common atopic disease. *Nature Genetics* 29: 175-8.

Walls AF, He S, Buckley MG and McEuen AR (2001): Roles of the mast cell and basophil in asthma. *Clinical and Experimental Allergy Reviews* 1 (2): 68-72.

Walz TM, Nishikawa BK, Malm C and Wasteson A (1993): Production of transforming growth factor alpha by normal human blood eosinophils. *Leukemia* 7: 1531-7.

Wang L, McParland BE and Pare PD (2003): The functional consequences of structural changes in the airways: implications for airway hyperresponsiveness in asthma. *Chest* 123 (3): 356S-62S.

Watt MJ and Breyer-Brandwijk MG (1962): *The Medicinal and poisonous plants of Southern and Eastern Africa*, 2nd Edition London. E and S Livingstone, 408-10.

Weiss ST (1998): Environmental risk factors in childhood asthma. *Clinical and Experimental Allergy* 28 (5): 29-34.

Weiss ST and Shore S (2004): Obesity and asthma: directions for research. *American Journal of Respiratory and Critical Care Medicine* 169: 963-8.

Wenzel S (2003): Mechanisms of severe asthma. *Clinical and Experimental Allergy* 33(12): 1622-8.

Wenzel SE (1994): Asthma as an inflammatory disease. *Annals of Allergy* 72: 261-71.

Wenzel SE, Fowler AA and Schwartz LB (1988): Activation of pulmonary mast cell by bronchoalveolar allergen challenge. *In vivo* release of histamine and tryptase in atopic subjects with or without asthma. *American Reviews of Respiratory Diseases* 137: 1002-8.

Wenzel SE, Larsen GL, Johnson K *et al.* (1990): Elevated levels of Leukotriene C4 in bronchoalveolar lavage fluid from atopic asthmatic after endobronchial allergen challenge. *American Reviews of Respiratory Diseases* 142: 112-9.

WHO Media centre, 2006: Asthma. Fact sheet No.307 August 2006. Retrieved in February 2007 from [www.who.int/mediacentre/factsheets/fs307/en/index.html](http://www.who.int/mediacentre/factsheets/fs307/en/index.html).

Wiesch DG, Meyers DA and Bleecker ER (1999): Genetics of asthma. *The Journal of Allergy and Clinical Immunology* 104(5): 895-901.

Williams TJ (2004): The eosinophil enigma. *Journal of Clinical Investigation* 113: 507-9.

Wills-Karp M and Ewart, SL (2004): Time to draw breathe: asthma susceptibility genes are identified - *Reviews of Nature Genetics* 5: 376-87.

Wills-Karp M and Karp CL (2004): Eosinophils in asthma: remodelling a tangled tale. *Science* 305: 1726-9.

Wilson JW and Li X (1997): The measurement of reticular basement membrane and submucosal collagen in "asthmatic" airways. *Clinical and Experimental Allergy* 27: 63-371.

Wong TF (1980): Medicinal plants of Mauritius. E NDA Publications No 10 Dakar Senegal.

Woolcock AJ (1993): Steroid resistant asthma: what is the clinical definition? *The European Journal of Respiration* 6: 743-7.

Woolley KL, Gibson PG and Carty K (1996): Eosinophil apoptosis and the resolution of airway inflammation in asthma. *American Journal of Respiratory and Critical Care Medicine* 154: 237-43.

Wu F, Reddy K, Nadeau I, Gilly J, Terpening S and Clanton DJ (2005): Optimization of a MRC-5 cell culture process for the production of a smallpox vaccine. *Cytotechnology* 49: 95-107.

Yang C-F, Han-Ming Shen, Shen Y, Zhuang Z-X and Ong CN (1997): Cadmium-induced oxidative cellular damage in human fetal lung fibroblasts (MRC-5 Cells). *Environmental Health Perspectives* 105 (7): 712-16.

Yang IA, Savarimuthu S, Kim ST, Holloway JW, Bell SC, Fong KM (2007): Gene-environmental interaction in asthma. *Mechanisms of allergy and adult asthma. Current Opinion in Allergy and Clinical Immunology* 7(1): 75-82.

Ying S, Durham SR, Corrigan CJ, Hamid Q and Kay AB (1995): Phenotype of cells expressing mRNA for Th2-type (interleukin 4 and interleukin 5) and Th1-type (interleukin 2 and interferon gamma) cytokines in bronchoalveolar lavage and

bronchial biopsies from atopic "asthmatic" and normal control subjects. *American Journal of Respiratory Cell and Molecular Biology* 12: 477-87.

Yoshino K, Higashi N and Koga K (2006): Anti-oxidant and anti-inflammatory activities of oregano extracts. *Journal of Health Science* 52 (2): 169-73.

Youssef LA, Schuyler M, Gilmartin L, Pickett G, Bard JDJ, Tarleton CA, Archibeque T, Qualls C, Wilson BS and Oliver JM (2007): Histamine release from the basophils of control and asthmatic subjects and a comparison of gene expression between "releaser" and "non-releaser" basophils. *The Journal of Immunology* 178: 4584-94.

Yu HP, Fu J and Li PS (1991): Experimental and clinical study of activated platelet in allergic asthma [in Chinese]. *Zhonghua Nei Ke Za Zhi* 30: 546-9; 593-4.

Zambrano JC, Carper HT, Rakes GP, Patrie J, Murphy DD, Platts-Mills TA, *et al.* (2003): Experimental rhinovirus challenges in adults with mild asthma: response to infection in relation to IgE. *The Journal of Allergy and Clinical Immunology* 111(5): 1008-16.

Zhang S, Howarth PH and Roche WR (1996): Cytokine production by cell cultures from bronchial subepithelial myofibroblasts. *The Journal of Pathology* 180: 95-101.

Zhang Y, Leaves NI, Anderson GG, Ponting CP, Broxholme J, Holt R, Edser P, Bhattacharyya S, Dunham A, Adcock IM *et al.* (2003): Positional cloning of a quantitative trait locus on chromosome 13q14 that influences immunoglobulin E levels and asthma. *Nature Genetics* 34: 181-6.

Zhao GD, Yokoyama A, Kohno N, Sakai K, Hamada H and Hiwada K (2000): Effect of suplatast tosilate (IPD-1151T) on a mouse model of asthma: inhibition of eosinophilic inflammation and bronchial hyperresponsiveness. *International Archives of Allergy and Immunology* 121(2): 116-22.

Zhou T, Fan XM, Wang YQ, Qi YJ, Chen H and Qian SY (2004): Effects of different doses of hydrocortisone on acute lung injury in rats with early septic shock induced by Escherichia coli. Zhonghua Er Ke Za Zhi 42(9): 644-8. [Article in Chinese].

Zimmermann N, King NE, Laporte J, Yang M, Mishra A, Pope SM, Muntel EE, Witte DP, Pegg AE, Foster PS, Hamid Q and Rothenberg ME (2003): Dissection of experimental asthma with DNA microarray analysis identifies arginase in asthma pathogenesis. Journal of Clinical Investigation 111: 1863-74.

Zirihi GN, Mambu L, Gu´ed´e-Guina F, Bodo B and Grellier P (2005): *In vitro* antiplasmodial activity and cytotoxicity of 33 West African plants used for treatment of malaria. Journal of Ethnopharmacology 98: 281-5.