

Full List of Publications (*corresponding author)

1. Li X, Zhang Y, Liang Y, Cui Y, Yeung SC, Ip MSM, Tse HF, Lian Q, **Mak JCW***. iPSC-derived mesenchymal stem cells exert SCF-dependent recovery of cigarette smoke-induced apoptosis/proliferation imbalance in airway cells. *J Cell Mol Med*. 2016 Sep 19. doi: 10.1111/jcmm.12962. [Epub ahead of print]
2. Grainge C, Thomas PS, **Mak JCW**, Benton MJ, Lim TK, Ko FW. Year in review 2015: Asthma and chronic obstructive pulmonary disease. *Respirology*. 2016; 21:765-775.
3. Lui MM, **Mak JCW**, Lai AY, Hui CK, Lam JC, Lam DC, Ip MS. The impact of obstructive sleep apnea and tobacco smoking on endothelial function. *Respiration*. 2016; 91:124-31.
4. Lau WK, Cui LY, Chan SC, Ip MSM, **Mak JCW***. The presence of serotonin in cigarette smoke – a possible mechanistic link to 5-HT-induced airway inflammation. *Free Radic. Res.* 2016; 50:495-502.
5. Lee MYK, Wang Y, **Mak JCW**, Ip MSM. Intermittent hypoxia induces NF κ B-dependent endothelial activation via adipocyte-derived mediators. *Am. J. Physiol. Cell Physiol.* 2016; 310:C446-C455.
6. Han Q, Li G, **Mak JCW**, Zhang Y, Ip MS, Zhang N. The role of heme oxygenase-1 in the protection of chronic intermittent hypoxia-induced lung injury *in vivo*. *Zhonghua Jie He He Hu Xi Za Zhi*. 2015; 38:516-519. Chinese.
7. Lam DC, Chan SC, **Mak JCW**, Freeman C, Ip MSM, Shum DK. S-maltoheptaose targets syndecan-bound effectors to reduce smoking-related neutrophilic inflammation. *Sci. Rep.* 2015; 5:12945.
8. Li X, Zhang Y, Yeung SC, Liang Y, Liang X, Ding Y, Ip MSM, Tse HF, **Mak JCW***, Lian Q. Mitochondrial transfer of induced pluripotent stem cell-derived mesenchymal stem cells to airway epithelial cells attenuates cigarette smoke-induced damage. *Am. J. Respir. Cell Mol. Biol.* 2014; 51:455-65.
9. Hui WS, Ho SP, Wong AT, Lo PL, **Mak JCW***. Cellular signaling pathways of matrix metalloproteinase gene expression by *Pseudomonas aeruginosa*-infected human bronchial epithelial cells. *Hong Kong Med. J.* 2014; 20 (Suppl 4):14-17.
10. Lam SK, **Mak JCW**, Zheng CY, Li YY, Kwong YL, Ho JCM. Downregulation of thymidylate synthase with arsenic trioxide in lung adenocarcinoma. *Int. J. Oncol.* 2014;44:2093-2102.
11. Han Q., S.C. Yeung, M.S. Ip, **J.C.W. Mak***. Cellular mechanisms in intermittent hypoxia-induced cardiac damage *in vivo*. *J. Physiol. Biochem.* 2014;70:201-213.
12. **Mak JCW***, Ho SP, Ho AS, Law BK, Cheung AH, Ho JC, Ip MS, Chan-Yeung MM. Sustained elevation of systemic oxidative stress and inflammation in exacerbation and remission of asthma. *ISRN Allergy* 2013;2013:561831.
13. Zheng CY, Lam SK, Li YY, Fong BM, **Mak JCW**, Ho JCM. Combination of arsenic trioxide and chemotherapy in small cell lung cancer. *Lung Cancer* 2013;82:222-230.

14. Li YY, Lam SK, **Mak JCW**, Zheng CY, Ho JCM. Erlotinib-induced autophagy in epidermal growth factor receptor mutated non-small cell lung cancer. *Lung Cancer* 2013;81:354-361.
15. Han Q, Yeung SC, Ip MS, **Mak JCW***. Intermittent hypoxia-induced NF- κ B and HO-1 regulation in human endothelial EA.hy926 cells. *Cell Biochem. Biophys.* 2013;66:431-441.
16. Lui MM, Tse HF, **Mak JCW**, Lam JC, Lam DC, Tan KC, Ip MSM. Altered profile of circulating endothelial progenitor cells in obstructive sleep apnea. *Sleep Breath.* 2013;17:937-942.
17. Guan S, Tee W, Ng D, Chan T, Peh H, Ho W, Cheng C, **Mak J**, Wong W. Andrographolide protects against cigarette smoke-induced oxidative lung injury via augmentation of Nrf2 activity. *Br. J. Pharmacol.* 2013;168:1707-1718.
18. Yau KH, **Mak JCW**, Leung SWS, Yang D, Vanhoutte PM. A synthetic chloride channel relaxes airway smooth muscle of the rat. *PLoS One* 2012; 7:e45340.
19. Lau WKW, Li X, Yeung DSC, Chan KH, Ip MSM, **Mak JCW***. The involvement of serotonin metabolism in cigarette smoke-induced oxidative stress in rat lung *in vivo*. *Free Radic. Res.* 2012;46:1413-1419.
20. Chan KH, Chan SCH, Yeung SC, Man RYK, Ip MSM, **Mak JCW***. Inhibitory effect of Chinese green tea on cigarette smoke-induced up-regulation of airway neutrophil elastase and matrix metalloproteinase-12 via antioxidant activity. *Free Radic. Res.* 2012; 46:1123-1129.
21. Ho Y-S, Yang X, Yeung S-C, Chiu K, Lau CF, Tsang AW-T, **Mak JC-W**, Chang RC-C. Cigarette smoking accelerated brain aging and induced pre-Alzheimer-like neuropathology in rats. *PLoS One*. 2012; 7:e36752.
22. Lau WKW, Chan-Yeung MMW, Yip BHK, Cheung AHK, Ip MSM, **Mak JCW***. The Role of Circulating Serotonin in Development of Chronic Obstructive Pulmonary Disease. *PLoS One* 2012; 7:e31617.
23. **Mak JCW***. The potential role of green tea catechins in various disease therapies: progress and promise. *Clin. Exp. Pharmacol. Physiol.* 2012; 39:265-273.
24. Lam JCM, **Mak JCW**, Ip MSM. Obesity, obstructive sleep apnea and metabolic syndrome. *Respirology* 2012; 17:223-236.
25. Lau WKW, **Mak JCW**, Chan KH, Law AC. Cigarette smoke-induced cerebral cortical interleukin-6 elevation is not mediated through oxidative stress. *Neurotox. Res.* 2012; 22:170-176.
26. Lau WKW, Chan SC, Law AC, Ip MS, **Mak JCW***. The role of MAPK and Nrf2 pathways in ketanserin-elicited attenuation of cigarette smoke-induced IL-8 production in human bronchial epithelial cells. *Toxicol. Sci.* 2012; 125:569-577.
27. Chan CK, **Mak JC**, Gao Y, Man RY, Vanhoutte PM. Endothelium-derived NO, but not cyclic GMP, is required for hypoxic augmentation in isolated porcine coronary arteries. *Am. J. Physiol. Heart Circ. Physiol.* 2011; 301:H2313-21.

28. Han Q, Yeung SC, Ip MSM, **Mak JCW***. Effects of intermittent hypoxia on A-/E-FABP expression in human aortic endothelial cells. *Int. J. Cardiol.* 2010; 145:396-398.
29. Chan KH, Yeung SC, Yao TJ, Ip MSM, Cheung AHK, Chan-Yeung MMW, **Mak JCW***. Elevated plasma adiponectin levels in patients with chronic obstructive pulmonary disease. *Int. J. Tuberc. Lung Dis.* 2010; 14:1193-200.
30. Chan KH, Ho SP, Yeung SC, So WHL, Cho CH, Koo MWL, Lam WK, Ip MSM, Man RYK, **Mak JCW***. Chinese green tea ameliorates lung injury in cigarette smoke-exposed rats. *Respir. Med.* 2009; 103:1746-1754.
31. **Mak JCW***, Chan-Yeung MMW, Ho SP, Chan KS, Choo KL, Yee KS, Chau CH, Cheung AHK, Ip MSM. Elevated plasma TGF- β_1 levels in patients with chronic obstructive pulmonary disease. *Respir. Med.* 103:1083-1089, 2009.
32. Lui MM, Lam JC, Mak HK, Xu A, Ooi C, Lam DC, **Mak JCW**, Khong PL, Ip MSM. C-reactive protein is associated with obstructive sleep apnea independent of visceral obesity. *Chest* 135:950-956, 2009.
33. Chan CK, **Mak JCW**, Man RY, Vanhoutte PM. Rho kinase inhibitors prevent endothelium-dependent contractions in the rat aorta. *J. Pharmacol. Exp. Ther.* 329:820-826, 2009.
34. **Mak JCW*** Pathogenesis of COPD. Part II. Oxidative and antioxidative imbalance. *Int J Tuberc Lung Dis* 2008; 12:368-374.
35. Chan SC, Shum DK, Tipoe GL, **Mak JCW**, Leung ET, Ip MSM. Upregulation of ICAM-1 expression in bronchial epithelial cells by airway secretions in bronchiectasis. *Respir. Med.* 102:287-298, 2008.
36. **Mak JCW***, Leung HCM, Sham AS, Mok TY, Poon YN, Ling SO, Wong KC, Chan-Yeung M. Genetic polymorphisms and plasma levels of transforming growth factor- β_1 in Chinese patients with tuberculosis in Hong Kong. *Cytokine* 40:177-182, 2007.
37. **Mak JCW**, Ho SP, Yu WC, Choo KL, Chu CM, Yew WW, Lam WK, Chan-Yeung M. Polymorphisms and functional activity in superoxide dismutase and catalase genes in smokers with COPD. *Eur. Respir. J.* 30:684-690, 2007.
38. **Mak JCW**, Ho SP, Leung HCM, Cheung AHK, Law BKW, So LKY, Chan JWM, Chau CH, Lam WK, Ip MSM, Chan-Yeung M. Relationship between glutathione S-transferase gene polymorphisms and enzyme activity in Hong Kong Chinese asthmatics. *Clin. Exp. Allergy* 37:1150-1157, 2007.
39. **Mak JCW**, Ko FWS, Chu CM, Leung HCM, Chan HW, Cheung AHK, Ip MSM, Chan-Yeung M. Polymorphisms in the IL-4, IL-4 receptor α chain, TNF- α , and lymphotoxin- α genes and risk of asthma in Hong Kong Chinese adults. *Int. Arch. Allergy Immunol.* 144:114-122, 2007.
40. Chan-Yeung M, Ho SP, Cheung AHK, So LKY, Wong PC, Chan KK, Chan JWM, Ip MSM, **Mak JCW**. Polymorphisms of glutathione S-transferase genes and the functional activity in smokers with or without COPD in Hong Kong Chinese. *Int. J. Tuberc. Lung Dis.* 11:508-514, 2007.

41. Ho JCM, Chan-Yeung M, Ho SP, **Mak JCW**, Ip MSM, Ooi GC, Wong MP, Tsang KWT, Lam WK. Disturbance of systemic antioxidant profile in non-small cell lung carcinoma. *Eur. Respir. J.* 29:273-278, 2007.
42. Ho JCM, **Mak JCW**, Ho SP, Ip MSM, Tsang KWT, Lam WK, Chan-Yeung M. Manganese superoxide dismutase and catalase genetic polymorphisms, activity levels and lung cancer risk in Chinese in Hong Kong. *J. Thorac. Oncol.* 1:648-653, 2006.
43. **Mak JCW***, Chan-Yeung MMW. Reactive oxidant species in asthma. *Curr. Opin. Pulm. Med.* 12:7-11, 2006.
44. Chivers JE, Gong W, King EM, Seybold J, **Mak JC**, Donnelly LE, Holden NS, Newton R. Analysis of the dissociated steroid, RU24858, does not exclude a role for inducible genes in the anti-inflammatory actions of glucocorticoids. *Mol. Pharmacol.* 70:2084-2095, 2006.
45. **Mak JCW**, Leung HCM, Ho SP, Ko FWS, Cheung AHK, Ip MSM, Chan-Yeung MMW. Author reply to correspondence. *Clin. Exp. Allergy* 36:1104-1106, 2006.
46. **Mak JCW**, Leung HCM, Ho SP, Ko FWS, Cheung AHK, Ip MSM, Chan-Yeung MMW. Polymorphisms in manganese superoxide dismutase and catalase genes - functional study in Hong Kong Chinese asthma patients. *Clin. Exp. Allergy* 36:440-447, 2006.
47. Pan, N.Y., W.S. Hui, G.L. Tipoe, G.W. Taylor, R.Y.H. Leung, W.K. Lam, K.W.T. Tsang, **J.C.W. Mak***. Inhibition of pyocyanin-potentiated IL-8 release by steroids in bronchial epithelial cells. *Respir. Med.* 100:1614-1622, 2006.
48. **Mak, J.C.W.***, H.C.M. Leung, S.P. Ho, B.K.W. Law, A.S.S. Ho, W.K. Lam, M.S.M. Ip, M.M.W. Chan-Yeung. Analysis of transforming growth factor- β_1 gene polymorphisms in Hong Kong Chinese patients with asthma. *J. Allergy Clin. Immunol.* 117:92-96, 2006.
49. **Mak, J.C.W.***, S.P. Ho, R.Y. Leung, P.L. Ho, C. Ooi, G.L. Tipoe, C. Yan, M.S. Ip, W.K. Lam, K.W. Tsang. Elevated levels of transforming growth factor- β_1 in serum of patients with stable bronchiectasis. *Respir. Med.* 99:1223-1228, 2005.
50. Ho SP, Chan-Yeung M, Chow KKM, Ip MSM, **Mak JCW***. Antioxidant enzyme activities in healthy Chinese adults: influence of age, gender and smoking. *Respirology* 10:305-309, 2005.
51. Tsang KWT, Tan KCB, Ho PL, Ooi CGC, Ho JC, **Mak JCW**, Tipoe GL, Ko C, Yan C, Lam WK. Inhaled fluticasone in bronchiectasis: a 12 month study, *Thorax* 60:239-243, 2005.
52. Tsang KW, Tipoe GL, **Mak JC**, Sun J, Wong M, Leung R, Tan KC, Ko C, Ho JC, Ho PL, Rutman A, Lam WK. Ciliary central microtubular orientation is of no clinical significance in bronchiectasis. *Respir. Med.* 99:290-297, 2005.
53. Tsang KW, Tan KC, Ho PL, Ooi GC, Khong PL, R. Leung R, **Mak JC**, Tipoe GL, Ko C, Lam WK. Exhaled nitric oxide in bronchiectasis: the effects of inhaled corticosteroid therapy. *Int. J. Tuberc. Lung Dis.* 8:1301-1307, 2004.
54. Chivers JE, Cambridge LM, Catley MC, **Mak JC**, Donnelly LE, Barnes PJ, Newton R. Differential effects of RU486 reveal distinct mechanisms for glucocorticoid repression of prostaglandin E release. *Eur. J. Biochem.* 271:4042-4052, 2004.

55. **Mak JCW***, Leung HCM, Ho SP, Law BK, Lam WK, Tsang KW, Ip MS, Chan-Yeung M. Systemic antioxidant and oxidant status in Chinese asthmatic patients. *J. Allergy Clin. Immunol.* 2004; 114:260-264.
56. Wilson NM, Lamprill JR, **Mak JCW**, Clarke JR, Bush A, Silverman M. Symtoms, lung function, and β_2 -adrenoceptor polymorphisms in a birth cohort followed for 10 years. *Pediatr. Pulmonol.* 38:75-81, 2004.
57. Ho JC, Tipoe G, Zheng L, Leung TM, Tsang KW, Shum DK, Lau CS, **Mak JC**, Lam WK, Ip MS. *In vivo* study of regulation of IL-6 production in bronchieactasis. *Respir. Med.* 98: 334-341, 2004.
58. Tsang KW, Shum DK, Chan S, Ng P, **Mak J**, Leung R, Shum IH, Ooi GC, Tipoe GL, Lam WK. Pseudomonas aeruginosa adherence to human basement membrane collagen in vitro. *Eur. Respir. J.* 21:932-938, 2003.
59. Tsang KW, Lam CL, Yan C, **Mak JC**, Ooi GC, Ho HC, Lam B, Man R, Sham JS, Lam WK. Coriolus versicolor polysaccharide peptide slows progression of advanced non-small cell lung cancer. *Respir. Med.* 97: 618-624, 2003.
60. Newton R, Eddleston J, Haddad E-B, Hawisa S, **Mak J**, Lim S, Fox AJ, Donnelly LE, Chung KF. Regulation of kinin receptors in airway epithelial cells by inflammatory cytokines and dexamethasone. *Eur. J. Pharmacol.* 441: 193-202, 2002.
61. Hislop AA, **Mak JCW**, Kelly D, Reader JA, Barnes PJ, Haworth SG. Postnatal changes in β -adrenoceptors in the lung and the effect of hypoxia induced pulmonary hypertension of the newborn. *Br. J. Pharmacol.* 135: 1415-1424, 2002.
62. **Mak JCW**, Hisada T, M. Salmon M, Barnes PJ, Chung KF. Glucocorticoids reverse IL-1 β -induced impairment of β -adrenoceptor-mediated relaxation and up-regulation of G-protein-coupled receptor kinases. *Br. J. Pharmacol.* 135: 987-996, 2002.
63. **Mak JCW***, Chuang TT, Harris CA, Barnes PJ. Increased expression of G protein-coupled receptor kinases in cystic fibrosis lung. *Eur. J. Pharmacol.* 436: 165-172, 2002.
64. Pype, J.L., H. Xu, M. Schuermans, L.J. Dupont, W. Wuyts, **J.C.W. Mak**, P.J. Barnes, M.G. Demedts, G.M. Verleden. Mechanisms of IL-1 β -induced human airway smooth muscle hyporesponsiveness to histamine. Involvement of p38 MAPK and NF κ B. *Am. J. Respir. Crit. Care Med.* 163: 1010-1017, 2001.
65. Finney, P.A., L.E. Donnelly, B.G. Belvisi, T.T. Chuang, M. Birrell, A. Harris, **J.C.W. Mak**, C. Scorer, P.J. Barnes, I.M. Adcock, M.A. Giembycz. Chronic systemic administration of salmeterol to rats promotes pulmonary β_2 -adrenoceptor desensitisation and down-regulation of G_{sa}. *Br. J. Pharmacol.* 132: 1261-1270, 2001.
66. **Mak, J.C.W.***, J. Rousell, E.-B. Haddad, P.J. Barnes. Transfroming growth factor- β_1 inhibits β_2 -adrenoceptor gene transcription. *N-S Arch. Pharmacol.* 362: 520-525, 2000.
67. Salmon, M., Y.C. Liu, **J.C.W. Mak**, J. Rousell, T.J. Huang, T. Hisada, P.L. Nicklin, K.F. Chung. Contribution of upregulated airway endothelin-1 expression to airway smooth muscle and epithelial cell DNA synthesis after repeated allergen exposure of sensitised Brown-Norway rats. *Am. J. Respir. Cell Mol. Biol.* 23: 618-625, 2000.

68. McGraw, D.W., S.L. Forbes, **J.C.W. Mak**, D.P. Witte, P.E. Carrigan, G.D. Leikauf, S.B. Liggett. Transgenic overexpression of β_2 -adrenergic receptors in airway epithelial cells decreases bronchoconstriction. *Am. J. Physiol.* 279: L379-L389, 2000.
69. Katsunuma, T., K. Fujita, **J.C.W. Mak**, P.J. Barnes, K. Ueno, Y. Iikura. β -adrenergic agonists and bronchial hyperreactivity: role of β_2 -adrenergic and tachykinin neurokinin-2 receptors. *J. Allergy Clin. Immunol.* 106: S104-S108, 2000.
70. Finney, P.A., B.G. Belvisi, L.E. Donnelly, T.T. Chuang, **J.C.W. Mak**, C. Scorer, P.J. Barnes, I.M. Adcock, M.A. Giembycz. Albuterol-induced downregulation of G_{sa} accounts for pulmonary β_2 -adrenoceptor desensitisation in vivo. *J. Clin. Invest.* 106: 125-135, 2000.
71. Ranu, H.K., **J.C.W. Mak**, P.J. Barnes, S.E. Harding. Gi-dependent suppression of β_1 -adrenoceptor effects in ventricular myocytes from NE-treated guinea pigs. *Am. J. Physiol.* 278: H1807-1814, 2000.
72. **Mak, J.C.W.***, A.F. Roffel, T. Katsunuma, C.R. Elzinga, J. Zaagsma, P.J. Barnes. Up-regulation of airway smooth muscle histamine H_1 receptor mRNA, protein, and function by β_2 -adrenoceptor activation. *Mol. Pharmacol.* 57: 857-864, 2000.
73. Katsunuma, T., A.F. Roffel, C.R. Elzinga, J. Zaagsma, P.J. Barnes, **J.C.W. Mak***. β_2 -Adrenoceptor agonist-induced upregulation of tachykinin NK₂ receptor expression and function in airway smooth muscle. *Am. J. Respir. Cell Mol. Biol.* 21: 409-417, 1999.
74. Pype, J.L., **J.C.W. Mak**, L.J. Dupont, G.M. Verleden, P.J. Barnes. Desensitization of the histamine H_1 -receptor and transcriptional down-regulation of histamine H_1 -receptor gene expression in bovine airway smooth muscle. *Br. J. Pharmacol.* 125: 1477-1484, 1998.
75. Hislop, A.A., **J.C.W. Mak**, J.A. Reader, P.J. Barnes, S.G. Haworth. Muscarinic receptor subtypes in the porcine lung during postnatal development. *Eur. J. Pharmacol.* 359: 211-221, 1998.
76. Pype, J.L., L.J. Dupont, **J.C.W. Mak**, P.J. Barnes, G.M. Verleden. Regulation of H_1 -receptor coupling and H_1 -receptor mRNA by histamine in bovine tracheal smooth muscle. *Br. J. Pharmacol.* 123: 984-990, 1998.
77. Katsunuma, T., **J.C.W. Mak**, P.J. Barnes. Glucocorticoids reduce tachykinin NK₂ receptor expression in bovine tracheal smooth muscle. *Eur. J. Pharmacol.* 344: 99-106, 1998.
78. Baraniuk, J.N., M. Ali, D. Brody, J. Maniscalco, E. Gaumond, T. Fitzgerald, G. Wong, A. Yuta, **J.C.W. Mak**, P.J. Barnes, R. Bascom, T. Troost. Glucocorticoids induce β_2 -adrenergic receptor function in human nasal mucosa. *Am. J. Respir. Crit. Care Med.* 155: 704-710, 1997.
79. Nishikawa, M., **J.C.W. Mak**, P.J. Barnes. Effect of short- and long-acting β_2 -adrenoceptor agonists on pulmonary β_2 -adrenoceptor expression in human lung. *Eur. J. Pharmacol.* 318: 123-129, 1996.
80. **Mak, J.C.W.**, M. Astolfi, X.-L. Zhang, S. Evangelista, S. Manzini, P.J. Barnes. Autoradiographic mapping of pulmonary NK₁ and NK₂ tachykinin receptors and changes after repeated antigen challenge in guinea pigs. *Peptides* 17: 1389-1395, 1996.

81. Koto, H., **J.C.W. Mak**, E.-B. Haddad, W.B. Xu, M. Salmon, P.J. Barnes, K.F. Chung. Mechanisms of impaired β -adrenoceptor-induced airway relaxation by interleukin-1 β *in vivo* in the rat. *J. Clin. Invest.* 98: 1780-1787, 1996.
82. Steinkraus, V., **J.C.W. Mak**, U. Pichlmeier, H. Mensing, J. Ring, P.J. Barnes. Autoradiographic mapping of beta-adrenoceptors in human skin. *Arch. Dermatol. Res.* 288: 549-553, 1996.
83. Ramnarine, S.I., E.-B. Haddad, A.M. Khawaja, **J.C.W. Mak**, D.F. Rogers. Muscarinic control of neurogenic mucus secretion in ferret trachea. *J. Physiol.* 494.2: 577-586, 1996.
84. Haddad, E.-B., **J.C.W. Mak**, M.G. Belvisi, M. Nishikawa, J. Rousell, P.J. Barnes. Muscarinic and β -adrenergic receptor expression in peripheral lung from normal and asthmatic patients. *Am. J. Physiol.* 270: L947-L953, 1996.
85. Haddad, E.-B., J. Rousell, **J.C.W. Mak**, P.J. Barnes. Transforming growth factor- β_1 induces transcriptional down-regulation of m2 muscarinic receptor gene expression. *Mol. Pharmacol.* 49: 781-787, 1996.
86. **Mak, J.C.W.**, M. Nishikawa, E.-B. Haddad, O.-J. Kwon, S.J. Hirst, C.H.C. Twort, P.J. Barnes. Localisation and expression of β -adrenoceptor subtype mRNAs in human lung. *Eur. J. Pharmacol.* 302: 215-221, 1996.
87. Rousell, J., E.-B. Haddad, **J.C.W. Mak**, B.L.J. Webb, M.A. Giembycz, P.J. Barnes. β -Adrenoceptor-mediated down-regulation of M₂-muscarinic receptors: role of cAMP-dependent protein kinase and protein kinase C. *Mol. Pharmacol.* 49: 629-635, 1996.
88. Barnes, P.J., M.G. Belvisi, **J.C.W. Mak**, E.-B. Haddad, B. O'Connor. Tiotropium bromide (Ba 679 BR), a novel long-acting muscarinic antagonist for the treatment of obstructive airways disease. *Life Sci.* 56: 853-859, 1995.
89. Haddad, E.-B., J. Rousell, **J.C.W. Mak**, P.J. Barnes. Long-term carbachol treatment-induced down-regulation of muscarinic M₂-receptors but not m2 receptor mRNA in a human lung cell line. *Br. J. Pharmacol.* 116: 2027-2032, 1995.
90. Baraniuk, J.N., K. Ohkubo, O.J. Kwon, **J. Mak**, M. Ali, R. Davies, C. Twort, M. Kaliner, M. Letarte, P.J. Barnes. Localization of neutral endopeptidase (NEP) mRNA in human bronchi. *Eur. Respir. J.* 8: 1458-1464, 1995.
91. **Mak, J.C.W.**, M. Nishikawa, H. Shirasaki, K. Miyayasu, P.J. Barnes. Protective effects of a glucocorticoid on downregulation of pulmonary β_2 -adrenergic receptor *in vivo*. *J. Clin. Invest.* 96: 99-106, 1995.
92. Rousell, J., E.-B. Haddad, **J.C.W. Mak**, P.J. Barnes. Transcriptional down-regulation of m2 muscarinic receptor gene expression in human embryonic lung (HEL 299) cells by protein kinase C. *J. Biol. Chem.* 270: 7213-7218, 1995.
93. Zhang, X.-L., **J.C.W. Mak**, P.J. Barnes. Characterization and autoradiographic mapping of [³H]CP96,345, a nonpeptide selective NK₁ receptor antagonist in guinea pig lung. *Peptides* 16: 867-872, 1995.
94. **Mak, J.C.W.**, M. Nishikawa, P.J. Barnes. Glucocorticosteroids increase β_2 -adrenergic receptor transcription in human lung. *Am. J. Physiol.* 268: L41-L46, 1995.

95. Kwon, O.J., B.T. Au, P.D. Collins, I.M. Adcock, **J.C. Mak**, R.R. Robbins, K.F. Chung, P.J. Barnes. Tumor necrosis factor-induced interleukin-8 expression in cultured human airway epithelial cells. *Am. J. Physiol.* 267: L398-L405, 1994.
96. Haddad, E.-B., **J.C.W. Mak**, P.J. Barnes. Characterization of [³H]Ba679BR, a slow-dissociating muscarinic antagonist, in human lung: radioligand binding and autoradiographic mapping. *Mol. Pharmacol.* 45: 899-907, 1994.
97. Haddad, E.-B., **J.C.W. Mak**, A. Hislop, S.G. Haworth, P.J. Barnes. Characterization of muscarinic receptor subtypes in pig airways: radioligand binding and Northern blotting studies. *Am. J. Physiol.* 266: L642-648, 1994.
98. Shirasaki, H., M. Nishikawa, I.M. Adcock, **J.C.W. Mak**, T. Sakamoto, T. Shimizu, P.J. Barnes. Expression of platelet-activating factor receptor mRNA in human and guinea pig lung. *Am. J. Respir. Cell Mol. Biol.* 10: 533-537, 1994.
99. **Mak, J.C.W.**, B. Grandordy, P.J. Barnes. High affinity [³H]formoterol binding sites in lung: characterization and autoradiographic mapping. *Eur. J. Pharmacol. (Mol. Pharmacol. Section)* 269: 35-41, 1994.
100. Shirasaki, H., I.M. Adcock, O.J. Kwon, M. Nishikawa, **J.C. Mak**, P.J. Barnes. Agonist-induced up-regulation of platelet-activating factor receptor messenger RNA in human monocytes. *Eur. J. Pharmacol. (Mol. Pharmacol. Section)* 268: 263-266, 1994.
101. Nishikawa, M., **J.C.W. Mak**, H. Shirasaki, S.E. Harding, P. J. Barnes. Long-term exposure to norepinephrine results in down-regulation and reduced mRNA expression of pulmonary β -adrenergic receptors in guinea pigs. *Am. J. Respir. Cell Mol. Biol.* 10: 91-99, 1994.
102. Grandordy B.M., **J.C.W. Mak**, P.J. Barnes. Modulation of airway smooth muscle β -adrenoceptor function by a muscarinic agonist. *Life Sci.* 54:185-191, 1994.
103. **Mak, J.C.W.**, E.-B. Haddad, N.J. Buckley, P.J. Barnes. Visualization of muscarinic m₄ mRNA and M₄ receptor subtype in rabbit lung. *Life Sci.* 53: 1501-1508, 1993.
104. Njuki F., C.G. Nicholl, A. Howard, **J.C.W. Mak**, P.J. Barnes, S.I. Girgis, S. Legon. A new calcitonin-receptor-like sequence in rat pulmonary blood vessels. *Clin. Sci.* 85:385-388, 1993.
105. Miyayasu, K., **J.C.W. Mak**, M. Nishikawa, P.J. Barnes. Characterization of guinea pig pulmonary neurokinin type 1 receptors using a novel antagonist ligand, [³H]FK888. *Mol. Pharmacol.* 44:539-544, 1993.
106. Nishikawa, M., **J.C.W. Mak**, H. Shirasaki, P.J. Barnes. Differential down-regulation of pulmonary β_1 - and β_2 -adrenoceptor messenger RNA with prolonged *in vivo* infusion of isoprenaline. *Eur. J. Pharmacol. (Mol. Pharmacol. Section)* 247:131-138, 1993.
107. Baraniuk, J.N., K. Ohkubo, O.J. Kwon, **J. Mak**, J. Rohde, M.A. Kaliner, S.R. Durham, P.J. Barnes. Identification of neutral endopeptidase mRNA in human nasal mucosa. *J. Appl. Physiol.* 74:272-279, 1993.
108. Meini, S., **J.C.W. Mak**, J.A.L. Rhode, D.F. Rogers. Tachykinin control of ferret airways: mucus secretion, bronchoconstriction and receptor mapping. *Neuropeptides* 24:81-89, 1993.

109. Nicholl, C.G., J.M. Bhatavdekar, **J. Mak**, S.I. Girgis, S. Legon. Extra-pancreatic expression of the rat islet amyloid polypeptide (amylin) gene. *J. Mol. Endocrinology* 9:157-163, 1992.
110. **Mak, J.C.W.**, J.N. Baraniuk, P.J. Barnes. Localization of muscarinic receptor subtype messenger RNAs in human lung. *Am. J. Respir. Cell Mol. Biol.* 7:344-348, 1992.
111. Bai, T.R., **J.C.W. Mak**, P.J. Barnes. A comparison of beta-adrenergic receptors and *in vitro* relaxant responses to isoproterenol in asthmatic airway smooth muscle. *Am. J. Respir. Cell Mol. Biol.* 6:647-651, 1992.
112. Hamid, Q.A., **J.C.W. Mak**, M.N. Sheppard, B. Corrin, J.C. Venter, P.J. Barnes. Localization of beta₂-adrenoceptor messenger RNA in human and rat lung using *in situ* hybridization: correlation with receptor autoradiography. *Eur. J. Pharmacol. (Mol. Pharmacol. Section)* 206:133-138, 1991.
113. **Mak, J.C.W.**, P.J. Barnes. Autoradiographic visualization of bradykinin receptors in human and guinea pig lung. *Eur. J. Pharmacol.* 194:37-44, 1991.
114. Stretton, C.D., **J.C.W. Mak**, M.G. Belvisi, M.H. Yacoub, P.J. Barnes. Cholinergic control of human airways *in vitro* following extrinsic denervation of the human respiratory tract by heart-lung transplantation. *Am. Rev. Respir. Dis.* 142:1030-1033, 1990.
115. **Mak, J.C.W.**, P.J. Barnes. Autoradiographic visualization of muscarinic receptor subtypes in human and guinea pig lung. *Am. Rev. Respir. Dis.* 141:1559-1568, 1990.
116. Coupe M.O., **J.C.W. Mak**, M. Yacoub, P.J. Oldershaw, P.J. Barnes. Autoradiographic mapping of calcitonin gene-related peptide receptor in human and guinea pig hearts. *Circulation* 81:741-747, 1990.
117. **Mak, J.C.W.**, P.J. Barnes. Peripheral type benzodiazepine receptors in human and guinea pig lung: characterization and autoradiographic mapping. *J. Pharmacol. Exp. Ther.* 252:880-885, 1990.
118. **Mak, J.C.W.**, P.J. Barnes. Muscarinic receptor subtypes in human and guinea pig lung. *Eur. J. Pharmacol.* 164:223-230, 1989.
119. MaCormack, D.G., **J.C.W. Mak**, M.O. Coupe, P.J. Barnes. Calcitonin gene-related peptide vasodilation of human pulmonary vessels. *J. Appl. Physiol.* 67:1265-1270, 1989.
120. MaCormack, D.G., **J.C. Mak**, P. Minette, P.J. Barnes. Muscarinic receptor subtypes mediating vasodilation in the pulmonary artery. *Eur. J. Pharmacol.* 158:293-297, 1988.
121. **Mak, J.C.W.**, P. J. Barnes. Autoradiographic localization of calcitonin gene-related peptide (CGRP) binding sites in human and guinea pig lung. *Peptides* 9:957-963, 1988.