

# Curriculum vitae

## Judith Choi Wo, MAK

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### Qualifications

Date	Qualification
1995	Recognised Teacher of the University of London, UK
1992	PhD in Pharmacology, The University of London, UK
1985	BSc in Pharmacology (Upper second class Honours), The University of London, UK

### Position Held

Date	Position	Institute
Jan 2013-now	Associate Professor	Departments of Medicine and Pharmacology & Pharmacy, The University of Hong Kong
Jul 2007-Dec 2012	Assistant Professor	Departments of Medicine and Pharmacology & Pharmacy, The University of Hong Kong
Apr 2002-Jun 2007	RAP	Department of Medicine, The University of Hong Kong
1993-Mar 2002	Lecturer	Department of Thoracic Medicine, Imperial College @ NHLI, UK

### Education and Training

Date	Education/ Training	Institute
Dec 2017	9 <sup>th</sup> AMEA Symposium Frontiers in Medical and Health Sciences Education 2017	Bau Institute of Medical & Health Sciences Education (BIMHSE), HKU
Sept 2017	Team-based Learning Strategy	BIMHSE, HKU
Jan 2012	Test in Good Clinical Practice – Pass with Certificate	Clinical Trials Centre, HKU

Oct 2010	Professional Development Programme in Medical Education	Institute of Medical & Health Sciences Education (IMHSE), HKU
May 2009	Cert. of Teaching and Learning in Higher Education - Stage2	Centre for the Enhancement of Teaching and Learning (CETL), The University of Hong Kong
Dec 2008	Cert. of Teaching and Learning in Higher Education - Stage1	Centre for the Enhancement of Teaching and Learning (CETL), The University of Hong Kong
Sept 2008	Professional Development Programme in Medical Education	IMHSE, HKU
Jun 2007	PBL Training Workshop for New Tutors	HKU
Mar 2005	Good Clinical Practice Programme	Clinical Trials Centre, HKU

### **Honors, awards and prizes**

- PhD student (Miss CUI, Y) awarded the Best Abstract in Basic Science & Translational for her oral presentation at the 22nd Medical Research Conference 2017, Hong Kong
- PhD student (Miss CUI, Y) awarded the International Trainee Travel Award (ITTA) for her poster presentation at the American Thoracic Society (ATS) 2016 International Conference, San Francisco, USA
- PhD student (Miss CUI, Y) awarded the Travel Award for her poster presentation at Airway Vista 2015, Seoul, Korea
- PhD student (Miss LIANG, Y) awarded 3rd prize for an outstanding Oral Presentation at the 18th Annual Scientific Meeting of ICSM, Hong Kong (2014)
- PhD student (Mr. LI, X) awarded Abstract Scholarship for his poster presentation at the American Thoracic Society (ATS) 2014 International Conference, San Diego, USA
- PhD student (Miss LIANG, Y) awarded the Best Poster Award at the 17th Congress of the Asian Pacific Society of Respiriology (APSR), Hong Kong (2012)

### **Memberships**

American Thoracic Society (since 2011)  
 British Pharmacology Society (since 1993)  
 British Association for Lung Research (since 1993)  
 Biochemical Society (since 1997)  
 Hong Kong Pharmacology Society (since 2002)

Hong Kong Thoracic Society (since 2002)

Institute of Cardiovascular Science and Medicine, HKU (since 2005)

## **Research**

My main research area of interest was in various chronic lung diseases such as asthma and chronic obstructive pulmonary disease (COPD), with a focus on putative drug targets in their treatment strategies, which fits into the focus of research in both Departments, especially with colleagues in pulmonary drug delivery group.

As cigarette smoke is a major risk factor in COPD, cigarette smoke (CS)-exposed rodent (rat or mouse) model *in vivo* was established as a way of passive smoking exposure as well as cigarette smoke medium (CSM)-exposed human bronchial epithelial and smooth muscle cell models *in vitro*. Using these models, I have focused my research in the following ways:

- Within one of the Faculty strategies on **regeneration medicine**, I collaborated with Professor HF Tse and Dr. Q Lian (Division of Cardiology within Department of Medicine) to be one of the first group in evaluating the effectiveness and the cellular mechanisms of mesenchymal stem cell (MSC) therapy in the therapeutic treatment of CS- or ozone-mediated COPD using rodent models. One of the figures in our first paper was published as a cover page, which was followed by 3 more publications. The latest publication (accepted by Journal of Allergy and Clinical Immunology) was the results of my further collaboration with Professor KF Chung and Dr. PK Bhavsar (Imperial College London @ National Heart & Lung Institute) under Joint PhD programme (HKU-ICL). This work attracted the support from the General Program of National **Natural Science Fund of China (NSFC)** 2014-2017. I will continue my collaboration with members from this Faculty and ICL@NHLI to further investigate the molecular mechanisms how mitochondrial transfer takes place under oxidative stress.
- To elucidate the cellular and molecular regulatory mechanisms of oxidants/antioxidants and pro-inflammatory/anti-inflammatory cytokines network in the *in vitro* and *in vivo* models
  - ✓ Identification of cigarette smoke-induced disruption of serotonin and monoamine oxidases (MAOs) homeostasis in the airways as novel targets. This was supported by RGC\_GRF 2012. Resulting from this line of research, we have now identified the **role of mitochondrial function** in the regulation of oxidants/antioxidants and pro-inflammatory/anti-inflammatory cytokines balance in human bronchial epithelial cells, relevant to the pathogenesis of cigarette smoke-mediated COPD. This area of research will be further in the collaboration

with members from ICL@NHLI on the study of the molecular mechanisms on oxidant-induced mitochondrial dysfunction.

- In collaboration with members from different departments in the Faculty of Medicine (Professor Daisy KY Shum and Dr. Raymond CC Chang) and Dr. Fred WS Wong (Department of Pharmacology, National University of Singapore) using the CS-exposed rodent models, we found the harmful effects of CS in other organs such as brain and the protective effects of Chinese green tea, EGCG (its major catechin in Chinese green tea) and newly developed heparin derivatives as well as other potential antioxidants from natural products including Chinese herbals in preventive treatment for CS-mediated lung injury. Further collaboration with members from School of Chinese Medicine is now taking place to elucidate the molecular mechanism of the potential antioxidants extracted from natural products.

As intermittent hypoxia (IH) is a hallmark feature in obstructive sleep apnea (OSA), **intermittent hypoxia (IH)-exposed rodent model *in vivo*** and **IH-exposed cell culture models *in vitro*** using various cell types such as human endothelial cell line (EA.hy926), human monocytic cell line (THP-1), human cardiomyocyte cell line (AC 16) or rat cardiomyoblast cell line (H9c2) and human subcutaneous pre-adipocytes were established to elucidate the cellular and biochemical sequelae of OSA. In collaboration with Professor Mary SM Ip, an expert in the clinical study of OSA, we obtained funding from RGC 2008 for the initial setup of basic and clinical research. We now further our studies using the established models in the following ways:

- Elucidation of the magnitude and mechanisms of **interactions of IH and diet-induced obesity on cardiometabolic function**. We initially found IH-induced heart injury in rat model and signaling pathways involved in IH-induced oxidative stress and inflammation in endothelial cells respectively.
- To study adipogenesis and macrophage polarization *ex vivo* from stromal vascular fractions of depot-specific adipose tissues of rodents with or without IH exposure as well as human subcutaneous pre-adipocytes with or without IH exposure *in vitro*. We have now identified the impact of severity of IH on adipogenesis and macrophage polarization in depot-specific manner. One paper has now been accepted for publication while other two papers have been written up for submission to peer review journals.
- To identify the intermediary mechanistic pathways through studies on cell-cell interaction [i.e. conditioned medium from differentiated adipocytes on endothelial cells or conditioned medium from differentiated THP-1 (macrophages) on pre-adipocytes] *in vitro*.

## Research Grants

### External Peer-reviewed Competitive Research Grants

<b>Date</b>	<b>Research grant</b>	<b>Title</b>	<b>Amount (HK\$)</b>	<b>Principal/ Co-Investigator</b>
Apr 2018 to Mar 2020	Department of Health, Health and Medical Research Fund (HMRF)	Amelioration of cigarette smoke-induced mucus hypersecretion by Dendrobium officinale polysaccharides – relevant to chronic obstructive pulmonary disease	1,141,824	Principal Investigator
Jul 2018 to Jun 2019	Hong Kong Lung Foundation (HKLF) Research Grant	Role of PM2.5 collected in Hong Kong on mitochondrial dynamics in airway epithelial cells	60,000	Principal Investigator
May 2017 to Apr 2018	HKU-USydney Strategic Partnership Fund	Pulmonary macromolecular drug delivery platform for respiratory diseases	100,000	Co-Investigator (PI is Dr. Jenny Lam, Department of Pharmacology & Pharmacy)
Jun 2017 to May 2022	深圳市民生项目 - 三名工程 (Three Famous Scheme)	气道疾病临床服务和科研集成计划	11.5 millions	A team member
June 2016 to Nov 2017	Hong Kong Lung Foundation (HKLF) Research Grant	Impact of acute smoking on muscle derangement and functional impairment	140,000	Co-Investigator (PI is Dr. Shirley Ngai, Hong Kong Polytechnic University)
Jan 2014 to Dec 2017	National Natural Science Fund (NSFC) – General Program	Therapeutic potential of human induced pluripotent stem cell-derived mesenchymal stem cells (iPSC-MSCs) on oxidative stress-induced chronic lung injury	886,000	Principal Investigator
Jan 2014 to Dec 2016	National Natural Science Fund (NSFC) – Young Scientists Fund	The protective role of heme oxygenase-1 in the heart injury in chronic intermittent hypoxia rat model	287,500	Co-Investigator (PI is Dr. Qian Han, Guangzhou Institute of Respiratory Disease)
Nov 2013 to Apr 2016	Department of Health, Health and Medical Research Fund (HMRF)	Therapeutic potential of herbal flavonoids in the management of chronic obstructive pulmonary disease	938,360	Co-Investigator (PI is Dr. Susan WS Leung, Department of

Date	Research grant	Title	Amount	Principal/Co-Investigator
Dec 2012 to May 2015	RGC-GRF award	Investigating the mechanisms of cigarette smoke-induced disruption of serotonin homeostasis in the airways <i>in vitro</i> and <i>in vivo</i> – relevant to chronic obstructive pulmonary disease	917,836	Pharmacology & Pharmacy Principal Investigator
Dec 2010 to May 2013	RGC-GRF award	Effects of cigarette smoke on regulation of the expression of adiponectin and its receptors in airway cells	832,900	Principal Investigator
Jan 2011 to Dec 2012	Research Fund for the Control of Infectious Diseases (RFCID)	Experimental models to study the impact of cigarette smoking on the tropism of the highly pathogenic avian influenza H5N1 virus in human respiratory tract (on good progress)	909,862	Co- Investigator (PI is Dr. Michael CW Chan, School of Public Health)

### **Internal Non-competitive Research Grants**

Date	Research grant	Title	Amount (HK\$)	Principal/Co-Investigator
June 2017 to May 2018	Seed Funding for Basic Research, HKU	Role of <i>Dendrobium officinale</i> polysaccharides in amelioration of cigarette smoke-induced mucus hypersecretion – relevant to chronic obstructive pulmonary disease	55,400	Principal Investigator
June 2015 to Nov 2016	Seed Funding for Basic Research, HKU	The effect of cigarette smoke on the regulation of lipocalin 2 in airway cells <i>in vitro</i> and <i>in vivo</i> – relevant to chronic obstructive pulmonary disease	59,000	Principal Investigator
June 2014 to Nov 2015	Seed Funding for Basic Research, HKU	Biological roles of estrogen in the modulation of cigarette smoke-induced inflammation in human airway epithelial cells	59,900	Principal Investigator
June 2013 to Nov 2014	Seed Funding for Basic Research, HKU	The role of visfatin in cigarette smoke-induced inflammatory responses in human airway epithelial cells and macrophages	84,100	Principal Investigator
June	Seed Funding for	Involvement of fatty acid-binding	61,000	Principal

2012 to May 2013	Basic Research, HKU	proteins in cigarette smoke-induced inflammatory responses in human airway epithelial cells		Investigator
Apr 2011 to June 2012	Seed Funding for Basic Research, HKU	Signaling pathways on intermittent hypoxia-induced oxidative stress in human EAhy 926 endothelial cell line (paper under revision)	58,000	Principal Investigator
May 2010 to Apr 2011	Seed Funding for Basic Research, HKU	Involvement of serotonergic system in cigarette smoke-induced inflammatory responses in human airway epithelial cells (one publication and RGC-GRF 2012/2013 application)	67,000	Principal Investigator

### **Invited Lectures**

<b>Date</b>	<b>Conference/meeting</b>	<b>Topic</b>
Nov 2017	Asian Federation of Pharmaceutical Sciences Conference (AFPS 2017)	Novel targets for anti-inflammation in airway cells
Feb 2016	13 <sup>th</sup> Asia Pacific Federation of Pharmacologists Meeting (APFP 2016)	Mesenchymal stem cell treatment in chronic obstructive airway diseases
Sept 2014	ERS International Congress 2014	Mitochondrial Transfer by Stem Cells
Nov 2013	4 <sup>th</sup> Update in Paediatric Respiratory Diseases Conference	Stem Cell Research in Respiratory Medicine
Jun 2013	Inhalation Asia 2013	Detection of Potential Biomarkers in Airway Diseases
Dec 2012	17 <sup>th</sup> Congress of the Asian Pacific Society of Respiratory (APSR), Hong Kong Section "Cell and Molecular Biology"	Stem Cells in Lung Diseases
Nov 2011	16 <sup>th</sup> Congress of the Asian Pacific Society of Respiratory (APSR), Shanghai, China Post-Graduate Course "Sleep Apnea: from Bench to Bed"	The Use of Intermittent Hypoxia Model in Sleep Apnea Research
Jul 2011	3 <sup>rd</sup> Asia Pacific Region Conference, Hong Kong Symposium "Update in chronic obstructive pulmonary disease"	Pathogenesis of COPD
Feb 2010	Departmental Research Seminar, Department of Pharmacology, National University of Singapore	Oxidative Stress in Airway Diseases

## **Publications list**

### **Peer-reviewed papers** (\* Corresponding or co-corresponding author)

1. Wang Y, **Mak JCW**, Lee MYK, Xu A, Ip MSM. Low frequency Intermittent hypoxia promotes subcutaneous adipogenic differentiation. *Oxid Med Cell Longev* 2018 Mar 12;2018:4501757. doi: 10.1155/2018/4501757. (Impact F. 4.593) (Top 29.5% of Cell Biology)
2. Han Q, Li G, Ip MSM, Zhang Y, Zhen Z, **Mak JCW\***, Zhang N. Hemin attenuates intermittent hypoxia-induced cardiac injury via inhibiting mitochondrial fission and cell apoptosis. *J Cell Mol Med.* 2018 May;22(5):2717-2726. doi: 10.1111/jcmm.13560. (Impact F. 4.499) (Top 15.6% of Medicine, Research & Experimental)
3. Benton MJ, Lim TK, Ko FWS, Kan-O K, **Mak JCW**. Year in review 2017: Chronic obstructive pulmonary disease and asthma. *Respirology* 2018 May;23(5):538-545. doi: 10.1111/resp.13285.
4. Qiu Y, Chow MYT, Liang W, Chung WWY, **Mak JCW**, Lam JKW. From Pulmonary Surfactant, Synthetic KL4 Peptide as Effective siRNA Delivery Vector for Pulmonary Delivery *Mol Pharm.* 2017 Dec 4;14(12):4606-4617. (Top 12.4% of Pharmacology & Pharmacy)
5. Li X, Michaeloudes C, Zhang Y, Wiegman CH, Adcock IM, Lian Q, **Mak JCW\***, Bhavsar PK, Chung KF. Mesenchymal stem cells alleviate oxidative stress-induced mitochondrial dysfunction in the airways. *J Allergy Clin Immunol.* 2018 May;141(5):1634-1645.e5. doi: 10.1016/j.jaci.2017.08.017. (Impact F. 13.081, rank No. 1 in the Allergy category)
6. Liang Y, Liu KWK, Yeung SC, Li X, Ip MSM, **Mak JCW\***. (-)-Epigallocatechin-3-gallate reduces cigarette smoke-induced airway neutrophilic inflammation and mucin hypersecretion in rats. *Front Pharmacol.* 2017 Sep 06;8:618. doi: 10.3389/fphar.2017.00618. (Impact F. 4.400) (Top 12.8% of Pharmacology & Pharmacy)
7. Liang Y, Li X, Zhang Y, Yeung SC, Zhen Z, Ip MSM, Tse HF, Lian Q, **Mak JCW\***. Induced pluripotent stem cells-derived mesenchymal stem cells attenuate cigarette smoke-induced cardiac remodeling and dysfunction. *Front Pharmacol.* 2017 Jul 28;8:501. doi: 10.3389/fphar.2017.00501. (Impact F. 4.400) (Top 12.8% of Pharmacology & Pharmacy)
8. Chen XX, Leung GP, Zhang ZJ, Xiao JB, Lao LX, Feng F, **Mak JCW**, Wang Y, Sze SC, Zhang KY. Proanthocyanidins from *Uncaria rhynchophylla* induced apoptosis in MDA-MB-231 breast cancer cells while enhancing cytotoxic effects of 5-fluorouracil. *Food Chem Toxicol.* 2017 Sep;107(Pt A):248-260. (Impact F. 3.778)
9. Lim TK, Ko FW, Benton MJ, Berge MV, **Mak J**. Year in review 2016: Chronic obstructive pulmonary disease and asthma. *Respirology* 2017 May;22(4):820-828. doi: 10.1111/resp.13037.
10. Cui Y, Liu KW, Liang Y, Ip MSM, **Mak JCW\***. Inhibition of monoamine oxidase-B by selegiline reduces cigarette smoke-induced oxidative stress and inflammation in airway epithelial cells. *Toxicol Lett.* 2017 Feb 15;268:44-50. (Impact F. 3.858) (Top 15.2% of Toxicology)
11. 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*. 2017 Feb;21(2):265-277. doi: 10.1111/jcmm.12962. (Impact F. 4.499) (Top 15.6% of Medicine, Research & Experimental)
12. 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(5):495-502. doi: 10.3109/10715762.2016. (Impact F. 3.188) (Top 41.4% of Biochemistry & Molecular Biology)
  13. Lui MM, **Mak JCW**, Lai AY, Hui CK, Lam JC, Lam DC, Ip MSM. The Impact of Obstructive Sleep Apnea and Tobacco Smoking on Endothelial Function. *Respiration*. 2016;91(2):124-31. doi: 10.1159/000443527. (Impact F. 2.772)
  14. Grainge C, Thomas PS, **Mak JC**, Benton MJ, Lim TK, Ko FW. Year in review 2015: Asthma and chronic obstructive pulmonary disease. *Respirology* 2016 May;21(4):765-75. doi: 10.1111/resp.12771.
  15. Lee MY, Wang Y, **Mak JCW**, Ip MSM. Intermittent hypoxia induces NF- $\kappa$ B-dependent endothelial activation via adipocyte-derived mediators. *Am J Physiol Cell Physiol*. 2016 Mar 15;310(6):C446-55. doi: 10.1152/ajpcell.00240.2015. (Impact F. 3.602) (Top 21.4% of Physiology)
  16. Lam DCL, Chan SCH, **Mak JCW**, Freeman C, Ip MSM, Shum DKY. S-maltoheptaose targets syndecan-bound effectors to reduce smoking-related neutrophilic inflammation. *Sci Rep* 2015; 5:12945. (Impact F. 5.578; 5-year Impact F. 5.597)
  17. 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. (Impact F. 3.985; 5-year Impact F. 4.416)
  18. 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.
  19. 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. (Impact F. 3.025; 5-year Impact F. 2.849)
  20. Han Q, Yeung SC, Ip MS, **Mak JCW\***. Cellular mechanisms in intermittent hypoxia-induced cardiac damage *in vivo*. *J. Physiol. Biochem*. 2014;70:201-213. (2012 Impact F. 1.654; 5-year Impact F. 1.623)
  21. **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.
  22. 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. (2012 Impact F. 3.392; 5-year Impact F. 3.457)

23. 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. (2012 Impact F. 3.392; 5-year Impact F. 3.457)
24. Han Q., S.C. Yeung, M.S. Ip, **J.C.W. Mak\***. Intermittent hypoxia-induced NF- $\kappa$ B and HO-1 regulation in human endothelial EA.hy926 cells. *Cell Biochem. Biophys.* 2013;66:431-441. (2012 Impact F. 1.912; 5-year Impact F. 2.7)
25. Lui M.M., H.F. Tse, **J.C.W. Mak**, J.C. Lam, D.C. Lam, K.C. Tan, M.S. Ip. Altered profile of circulating endothelial progenitor cells in obstructive sleep apnea. *Sleep Breath.* 2013;17:937-942. (Impact F. 2.018)
26. Guan S., W. Tee, D. Ng, T. Chan, H. Peh, W. Ho, C. Cheng, **J. Mak**, W. Wong. Andrographolide protects against cigarette smoke-induced oxidative lung injury via augmentation of Nrf2 activity. *Br J. Pharmacol.* 2013;168:1707-1718. (2012 Impact F. 4.409)
27. Yau K.H., **J.C.W. Mak**, S.W.S. Leung, D. Yang, P.M. Vanhoutte. A synthetic chloride channel relaxes airway smooth muscle of the rat. *PLoS One* 2012; 7:e45340. (2012 Impact F. 3.730; 5-year Impact F. 4.244)
28. Lau W.K.W., X. Li, D.S.C. Yeung, K.H. Chan, M.S.M. Ip, **J.C.W. Mak\***. The involvement of serotonin metabolism in cigarette smoke-induced oxidative stress in rat lung *in vivo*. *Free Radic. Res.* 2012;46:1413-1419. (2012 Impact F. 3.279; 5-year Impact F. 2.836)
29. Chan K.H., S.C.H. Chan, S.C. Yeung, R.Y.K. Man, M.S.M. Ip, **J.C.W. Mak\***. 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.* 46:1123-1129, 2012. (2012 Impact F. 3.279; 5-year Impact F. 2.836)
30. Ho Y.-S., X. Yang, S.-C. Yeung, K. Chiu, C.F. Lau, A. W.-T. Tsang, **J.C.-W. Mak**, R. C.-C. Chang. Cigarette smoking accelerated brain aging and induced pre-Alzheimer-like neuropathology in rats. *PLoS One.* 7:e36752, 2012. (2012 Impact F. 3.730; 5-year Impact F. 4.244)
31. Lau W.K.W., M.M.W. Chan-Yeung, B.H.K. Yip, A.H.K. Cheung, M.S.M. Ip, **J.C.W. Mak\***. The Role of Circulating Serotonin in Development of Chronic Obstructive Pulmonary Disease. *PLoS One* 2012; 7:e31617. (2012 Impact F. 3.730; 5-year Impact F. 4.244)
32. **Mak J.C.W.\*** The potential role of green tea catechins in various disease therapies: progress and promise. *Clin. Exp. Pharmacol. Physiol.* 39:265-273, 2012. (2012 Impact F. 2.160; 5-year Impact F. 2.010)
33. Lam J.C.M., **J.C.W. Mak**, M.S.M. Ip. Obesity, obstructive sleep apnea and metabolic syndrome. *Respirology.* 17:223-236, 2012. (Impact F. 1.865)
34. Lau W.K.W., **J.C.W. Mak**, K.H. Chan, A.C. Law. Cigarette smoke-induced cerebral cortical interleukin-6 elevation is not mediated through oxidative stress. *Neurotox. Res.* 22:170-176, 2012. (2012 Impact F. 2.865; 5-year Impact F. 3.090)

35. Lau W.K.W., S.C. Chan, A.C. Law, M.S. Ip, **J.C.W. Mak\***. 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.* 125:569-577, 2012. (2012 Impact F. 4.328; 5-year Impact F. 4.836)
36. Chan C.K., **J. Mak**, Y. Gao, R.Y. Man, P.M. Vanhoutte. Endothelium-derived NO, but not cyclic GMP, is required for hypoxic augmentation in isolated porcine coronary arteries. *Am. J. Physiol. Heart Circ. Physiol.* 301:H2313-21, 2011. (Impact F. 3.881)
37. Han Q., S.C. Yeung, M.S.M. Ip, **J.C.W. Mak\***. Effects of intermittent hypoxia on A-/E-FABP expression in human aortic endothelial cells. *Int. J. Cardiol.* 145:396-398, 2010. (2012 Impact F. 5.509; 5-year Impact F. 4.125) (No. of citation = 1)
38. Chan K.H., S.C. Yeung, T.J. Yao, M.S.M. Ip, A.H.K. Cheung, M.M.W. Chan-Yeung, **J.C.W. Mak\***. Elevated plasma adiponectin levels in patients with chronic obstructive pulmonary disease. *Int. J. Tuberc. Lung Dis.* 14:1193-200, 2010. (2012 Impact F. 2.610; 5-year Impact F. 2.502) (No. of citation = 2)
39. Chan K.H., S.P. Ho, S.C. Yeung, W.H.L. So, C.H. Cho, M.W.L. Koo, W.K. Lam, M.S.M. Ip, R.Y.K. Man, **J.C.W. Mak\***. Chinese green tea ameliorates lung injury in cigarette smoke-exposed rats. *Respir. Med.* 103:1746-1754, 2009. (2012 Impact F. 2.585; 5-year Impact F. 2.659) (No. of citation = 0)
40. **Mak J.C.W.\***, M.M.W. Chan-Yeung, S.P. Ho, K.S. Chan, K.L. Choo, K.S. Yee, C.H. Chau, A.H.K. Cheung, M.S.M. Ip. Elevated plasma TGF- $\beta$ 1 levels in patients with chronic obstructive pulmonary disease. *Respir. Med.* 103:1083-1089, 2009. (2012 Impact F. 2.585; 5-year Impact F. 2.659) (No. of citation = 6)
41. Lui M.M., J.C. Lam, H.K. Mak, A. Xu, C. Ooi, D.C. Lam, **J.C.W. Mak**, P.L. Khong, M.S.M. Ip. C-reactive protein is associated with obstructive sleep apnea independent of visceral obesity. *Chest* 135:950-956, 2009. (Impact F. 4.143) (No. of citation = 21)
42. Chan C.K., **J.C.W. Mak**, R.Y. Man, P.M. Vanhoutte. Rho kinase inhibitors prevent endothelium-dependent contractions in the rat aorta. *J. Pharmacol. Exp. Ther.* 329:820-826, 2009. (Impact F. 4.003) (No. of citation = 8)
43. **Mak J.C.W.\*** Pathogenesis of COPD. Part II. Oxidative and antioxidative imbalance. *Int J Tuberc Lung Dis* 2008; 12:368-374. (2012 Impact F. 2.610; 5-year Impact F. 2.502) (No. of citation = 13)
44. Chan S.C., D.K. Shum, G.L. Tipoe, **J.C.W. Mak**, E.T. Leung, M.S.M. Ip. Upregulation of ICAM-1 expression in bronchial epithelial cells by airway secretions in bronchiectasis. *Respir. Med.* 102:287-298, 2008. (2012 Impact F. 2.585; 5-year Impact F. 2.659) (No. of citation = 4)
45. **Mak, J.C.W.\***, H.C.M. Leung, A.S. Sham, T.Y. Mok, Y.N. Poon, S.O. Ling, K.C. Wong, M. Chan-Yeung. Genetic polymorphisms and plasma levels of transforming growth factor- $\beta$ <sub>1</sub> in Chinese patients with tuberculosis in Hong Kong. *Cytokine* 40:177-182, 2007. (2012 Impact F. 2.518; 5-year Impact F. 3.121) (No. of citation = 7)
46. **Mak, J.C.W.**, S.P. Ho, W.C. Yu, K.L. Choo, C.M. Chu, W.W. Yew, W.K. Lam, M. Chan-Yeung. Polymorphisms and functional activity in superoxide dismutase and catalase genes in smokers with

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### **Abstracts in Conferences**

#### **Poster Presentations**

1. Ge M, Yeung S, **Mak JC**, Ip MS. Differential effects of high fat diet and intermittent hypoxia on C57BL/6N and C57BL/6J mouse strains. *Am J Respir Crit Care Med* 2018;197:A6407.
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### Oral Presentations

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