

Helen, Ka-wai LAW
(Associate Professor)



QUALIFICATIONS:

- 2005 M.Sc. in Information Technology in Education
The University of Hong Kong, Hong Kong.
- 2004 Postgraduate Certificate in Advanced Educational Studies (Info. Tech.)
The University of Hong Kong, Hong Kong.
- 1998 Ph.D. in Physiology
The University of Melbourne, Australia.
- 1993 B.Sc. (Hon.) in Physiology
The University of British Columbia, Canada.
- 1988 Professional Diploma in Diagnostic Radiography
Hong Kong Polytechnic, Hong Kong.

BRIEF OUTLINE OF EXPERIENCE AND POSTS HELD:

- 7/2017 – current Associate Professor, Department of Health Technology and Informatics,
Faculty of Health and Social Sciences, Hong Kong Polytechnic, Hong Kong
- 7/2011 – 6/2017 Assistant Professor, Department of Health Technology and Informatics,
Faculty of Health and Social Sciences, Hong Kong Polytechnic, Hong Kong
- 12/2008 – 5/2011 Research Engineer, Centre for Human Immunology, Institut Pasteur, Paris.
- 12/2001 – 9/2008 Research Officer, Department of Paediatrics & Adolescent Medicine, The
University of Hong Kong.
- 10/1998 – 11/2001 Post-Doctoral Fellow, Department of Paediatrics, The University of Hong
Kong.
- 8/1988 – 8/1990 Diagnostic Radiographer, Department of Organ Imaging, Prince of Wales
Hospital, Hong Kong.

PROFESSIONAL QUALIFICATIONS & AFFILIATIONS:

Member of the Board Examination Committee, Radiographers Board, Hong Kong (2011-present)
Member of the Radiographers Board, Hong Kong (2018-present)
Member of the

RESEARCH INTERESTS:

As an enthusiastic scientist, I indulge myself in the generation, dissemination and application of knowledge through medical research. I am also committed to lifelong learning for developing intellectual and personal strengths to serve the community. My research projects focus on Translational Medicine, Nephrology, Infection and Immunity, Developmental Immunology and Imaging Technologies.

SERVICES TO PROFESSIONAL & SCIENTIFIC BODIES, CONSULTANCIES:

2016 – Present Health, Safety and Environment Committee (Member)
2015 - 2016 Hong Kong Polytechnic University Senate (Member)
2014 - Present Animal Subjects Ethics Sub-committee (Member)
2014 - Present The Hong Kong Society of Nephrology (Associate Member)
2014 - Present Hong Kong Society of Immunology (Council Member)
2014 - 2015 FHSS Faculty Board (Member)
2013 - Present Dept of Health Sciences, Caritas Bianchi College of Careers (External Examiner)
2013 - Present The Squina International Centre for Infection Control (Affiliated Member)
2012 – Present International Society of Nephrology (Member)
2001 - Present Hong Kong Society of Immunology (Life Member)
2000, 2010-11 International Society of Analytical Cytometry (Member)
1998 - 2001 Hong Kong Society of Flow Cytometry (Member)
1997 - 2000 International Society of Experimental Hematology (Associate member)

AWARDS:

2018 Faculty of Health and Social Sciences Teaching Prize, HK Polytechnic University
2018 Department of Health Technology and Informatics Teaching Award, Hong Kong Polytechnic University
2017 Faculty of Health and Social Sciences Team Teaching Prize (Clinical Skills), Hong Kong Polytechnic University
2017 Department of Health Technology and Informatics Team Teaching Award (Clinical Skills), Hong Kong Polytechnic University
2016 Faculty of Health and Social Sciences Team Teaching Award (Human Anatomy), Hong Kong Polytechnic University
2016 Faculty of Health and Social Sciences Teaching Prize, HK Polytechnic University
2016 Department of Health Technology and Informatics Teaching Award, Hong Kong Polytechnic University
2014 Overseas Scholarship Scheme (Teaching Development)
2014 Faculty of Health and Social Sciences Team Teaching Prize (Human Anatomy), Hong Kong Polytechnic University
2013, 2014 Faculty of Health and Social Sciences Teaching Prize, HK Polytechnic University
2013, 2014 Department of Health Technology and Informatics Teaching Award, Hong Kong Polytechnic University
2010 AMNIS Corporation, XXV Congress of the ISAC Travel Stipend Award

2001	Federation of Immunological Societies of Asia-Oceania (FIMSA), Travel Award
2000	International Society of Experimental Hematology (ISEH), Travel Award The University of Hong Kong, Continuing Professional Development Grant
1998	University of Melbourne Postgraduate Writing-up Award
1996 - 1997	Australian Postgraduate Award with stipend & HECS Exemption Scholarship
1994 - 1995	University of Melbourne Postgraduate Scholarship Australian Postgraduate Research Scholarship (without stipend)
1993	University of British Columbia Scholarship University of British Columbia Edgar C. Black Memorial Prize in Physiology University of British Columbia Physiology Prize Dean's Honour List (Faculty of Science, University of British Columbia)
1992	University of British Columbia MRC Summer Research Studentship University of British Columbia Summer Scholarship Dean's Honour List (Faculty of Science, University of British Columbia)
1988	Hong Kong Polytechnic Sonca Gold Medal Award Association of Government Radiographers Best Article Award
1987	Sir Edward Youde Memorial Scholarship Hong Kong Polytechnic ACE Knitting Scholarship
1986, 1987	Hong Kong Polytechnic Fuji Radiography Award

REPRESENTATIVE PUBLICATIONS JOURNAL ARTICLES (2008 – 2019):

- Islam Khan MZ, Tam SY and Law HKW. Autophagy-modulating long non-coding RNAs (lncRNAs) and their molecular events in cancer *Frontiers in Genetics* 2019 Jan 14;9:750
- Kwok J, Chu P, Ong C, Law HK, Ip P, Chan GCF, Lu L. Role of Regulatory T Cells in Noninherited Maternal Antigen-Related Tolerance in Cord Blood: An in Vitro Study. *Biol Blood Marrow Transplant.* 2018 Nov 6.
- Baig FN, Liu SYW, Yip SP, Law HKW, Ying MTC. Update on Ultrasound Diagnosis for Thyroid Cancer. *Hong Kong J Radiol* 2018;21:82-93
- Wang L, **Law HKW**. Immune complexes suppressed autophagy in glomerular endothelial cells. *Cell Immunol.* 2018 Jun;328:1-8. doi: 10.1016/j.cellimm.2018.02.013. Epub 2018 Feb 21.
- Ma MK, **Law HK**, Tse KS, Chan KW, Chan GC, Yap DY, Mok MM, Kwan LP, Tang SC, Choy BY, Chan TM. Non-invasive assessment of kidney allograft fibrosis with shear wave elastography: A radiological-pathological correlation analysis. *Int J Urol.* 2018 May;25(5):450-455. doi: 10.1111/iju.13536. Epub 2018 Feb 14.
- Tam BT, Yu AP, Tam EW, Monks DA, Wang XP, Pei XM, Koh SP, Sin TK, **Law HK**, Ugwu FN, Supriya R, Yung BY, Yip SP, Wong SC, Chan LW, Lai CW, Ouyang P, and Siu PM. Ablation of Bax and Bak protects skeletal muscle against pressure-induced injury. *Scientific Reports Sci Rep.* 2018 Feb 27;8(1):3689
- Baig FN, Lunenburg JTJV, Liu SYW, Yip SP, **Law HKW**, Ying M. Computer-aided assessment of regional vascularity of thyroid nodules for prediction of malignancy. *Scientific Report* 2017 Oct 30;7(1):14350

- Baig FN, Liu SYW, Lam HC, Yip SP, **Law HKW**, and Ying M. Shear wave elastography combining with conventional grey scale ultrasound improves the diagnostic accuracy in differentiating benign and malignant thyroid nodules. *Applied Sciences*. 2017;7:1103
- Fu Y, Wang N, Yang A, **Law HKW**, Li L, Yan F Highly Sensitive detection of protein biomarkers with organic electrochemical transistors *Advanced Materials* 2017 Nov;29(41).
- Liu SH, Fu Y, Li GJ, Li L, **Law HKW**, Chen XF, Yan F. Conjugated Polymer for Voltage-Controlled Release of Molecules, *Advanced Materials*. 2017 Sep;29(35)
- Tam SY, Wu VW, **Law HKW**. Influence of autophagy on the efficacy of radiotherapy. *Radiation Oncology* 2017;12(1):57
- Zaw AM, Williams CM, **Law HKW**, Chow BKC. Minimally invasive transverse aortic constriction in mice. *J. Vis. Exp.* 2017 (121), e55293
- Klionsky DJ et al. Guidelines for the use and interpretation of assays for monitoring autophagy -3rd edition. *Autophagy*. 2016;12(1):1-222.
- Wang L, **Law HKW**. The role of autophagy in lupus nephritis. *Int. J. Mol. Sci.* 2015, 16(10), 25154-25167
- Li L, LUO X, Leung PHM, **Law HKW**. Controlled release of borneol from nano-fibrous poly(L-lactic acid)/ cellulose acetate butyrate membrane. *Textile Research Journal* Epub 2015 Sep 8
- Lai C, **Law HKW**. Mammographic Breast Density in Chinese women: Spatial Distribution and Autocorrelation Patterns. *PLoS One*. 2015 Sep 2;10(9):e0136881
- Lippmann J, Gwinner F, Rey C, Tamir U, **Law HKW**, Schwikowski B, Enninga J. Bacterial internalization, localization and effectors shape the epithelial immune response during *Shigella* infection. *Infect Immun*. 2015 Sep;83(9):3624-3637
- Chan LWC, Liu Y, Chan T, **Law HKW**, Wong SCC, Yeung APH, Lo KF, Yeung SW, Kwok KY, Chan WYL, Lau TYH and Shyu C. PubMed-supported Clinical Term Weighting Approach for Improving Inter-Patient Similarity Measure in Diagnosis Prediction. *BMC Medical Informatics and Decision Making* 2015 Jun 2;15:43
- Kang YL, Saleem MA, Chan KW, Yung BY, **Law HKW** Trehalose, an mTOR independent autophagy inducer, alleviates human podocyte injury after puromycin aminonucleoside treatment. *PLoS ONE* 2014 Nov 20;9(11):e113520
- Lai CWK, Leung, HMP and **Law HKW**. Contamination of X-ray cassettes with MRSA during portable X-ray examination. *Clinical Journal of Microbiology and Pathology*
- Wang F, Chan LWC, **Law HKW**, Cho WCS, Tang P, Yu J, Shyu CR, Wong SCC, Yip SP, Yung BY. Exploring microRNA-mediated alteration of EGFR signaling pathway in non-small cell lung cancer using an mRNA:miRNA regression model supported by target prediction databases *Genomics* 2014 Dec;104(6 Pt B):504-11
- Yuan C, Lai CWK, Chan L, Chow M, **Law HKW**, and Ying M The effect of diabetes self-management education on body weight, glycemic control, and other metabolic markers in patients with Type 2 diabetes mellitus. *J Diabetes Res*. 2014;2014: 789761

- Chan LW, Ngo CH, Wang F, Zhao MY, Zhao M, **Law HKW**, Wong SC, Yung BY. Disease-specific target gene expression profiling of molecular imaging probes: Database development and clinical validation. *Molecular Imaging* 2014 Jul 1;13(0):1-12
- Yuan C, Lai CWK, Chan L, Chow M, **Law HKW**, and Ying M Cumulative effects of hypertension, dyslipidemia, and chronic kidney disease to carotid atherosclerosis in Chinese patients with type 2 diabetes mellitus. *J Diabetes Res*. 2014;2014:179686
- Jin YY, Wang X, Du J, Cao RM, **Law HKW**, Wang JJ, Chen TX. Epstein-Barr virus induces the differentiation of semi-mature dendritic cells from cord blood monocytes. *Hum Immunol*. 2014 Apr;75(4):306-16
- Kang Y, Saleem MA, Chan KW, Yung BY and **Law HKW**. The cytoprotective role of autophagy in puromycin aminonucleoside treated human podocytes. *Biochem Biophys Res Commun*. 2014 Jan;443(2):628–634
- Coffre M, Roumier M, Rybczynska M, Sechet E, **Law HKW**, Gossec L, Dougados M, Bianchi E and Rogge L (2013) Combinatorial control of Th17 and Th1 cell function by genetic variation at genes associated with the IL-23 signaling pathway in spondyloarthritis *Arthritis Rheum*. 2013 Jun;65(6):1510-21
- Garcin G, Bordat Y, Chuchana P, Monneron D, **Law HKW**, Piehler J, Uzé G (2013) Differential activity of type I interferon subtypes for dendritic cell differentiation. *PLoS One*. 2013 8(3):e58465.
- Lau YL, Peiris JS, **Law HK**. (2012) Role of dendritic cells in SARS coronavirus infection. *Hong Kong Med J*. 2012 Aug;18 Suppl 3:28-30.
- Guillerey C, Mouriesc J, Polo G, Doyen N, **Law HKW**, Chan S, Kastner P, Leclerc C, and Dadaglio G. (2012) Pivotal Role of Plasmacytoid Dendritic Cells in Inflammation and NK Cell Responses Following TLR9 Triggering in mice Blood. 2012 Jul 5;120(1):90-9.
- Mesel-Lemoine M, Millet J, Vidalain PO, **Law H**, Vabret A, Lorin V, Escriou N, Albert ML, Nal B, Tangy F. (2012) A Human Coronavirus Responsible for Common Cold Massively Kills Dendritic Cells but not Monocytes. *J Virol*. 2012 Jul;86(14):7577-87.
- Ling MT, Tu W, Han Y, Mao H, Chong WP, Guan J, Liu M, Lam KT, **Law HKW**, Peiris JS, Takahashi K, Lau YL. (2012) Mannose-binding lectin contributes to deleterious inflammatory response in pandemic H1N1 and avian H9N2 infection. *J Infect Dis*. 2012 Jan;205(1):44-53. Epub 2011 Nov 11.
- Bouvier I, Jusforgues-Saklani H, Lim A, Lemaître F, Lemerancier B, Auriau C, Nicola MA, Leroy S, **Law HK**, Bandeira A, Moon JJ, Bousso P, Albert ML. Immunization route dictates cross-priming efficiency and impacts the optimal timing of adjuvant delivery. *Front Immunol*. 2011;2:71.
- de la Calle C, Joubert PE, **Law HK**, Hasan M and Albert ML. (2011) Simultaneous assessment of autophagy and apoptosis using multispectral imaging cytometry. *Autophagy*. 2011 Sep 1;7(9).
- Lepelley A, Louis S, Sourisseau M, **Law HKW**, Pothlichet J, Schilte C, Chaperot L, Plumas J, Randall RE, Si-Tahar M, Mammano F, Albert ML and Schwartz O. (2011) Innate sensing of HIV-infected cells *PLoS Pathog*. 2011 Feb;7(2):e1001284.

- Li J, **Law HKW**, Lau YL, Chan GC (2010) Effect of cisplatin, topotecan, daunorubicin and hydroxyurea on human mesenchymal stem cells. *Zhongguo Shi Yan Xue Ye Xue Za Zhi*, 2010 Aug;18(4):991-6. Chinese.
- Decaluwe H, Taillardet M, Corcuff E, Munitic E, **Law HKW**, Rocha B, Rivière Y, Di Santo J (2010) γ c deficiency precludes CD8+ T cell memory despite formation of potent T cell effectors. *Proc Natl Acad Sci U S A*. 2010 May 18; 107(20):9311-9316
- Alanio C, Lemaître F, **Law HKW**, Hasan M, Albert ML. (2010) Enumeration of human antigen-specific naive CD8+ T cells reveals conserved precursor frequencies. *Blood*. 2010 May 6; 115(18):3718-25
- HW Tso, **Law HKW**, Tu W, Chan GCF and Lau YL (2010) Phagocytosis of apoptotic cells modulates mesenchymal stem cells osteogenic differentiation to enhance IL-17 and RANKL expression on CD4+ T cells. *Stem Cells* 2010 May; 28(5):939-954
- Liu E, **Law HKW**, and Lau YL (2010) Mycobacterium bovis bacillus Calmette-Guerin treated human cord blood monocyte-derived dendritic cells polarize naïve T cells into a tolerogenic phenotype in newborns. *World Journal of Pediatrics*. 2010 May; 6(2):132-40.
- Chong WP, Zhou J, **Law HKW**, Tu W, Lau YL. (2010) Natural killer cells become tolerogenic after interaction with apoptotic cells. *Eur J Immunol*. 2010 Apr 9; 40(6):1718-1727.
- Nascimbeni M, Montange T, **Law HKW**, Mallet V, Saunier B, Rivière Y and Pol S (2010) Human immunodeficiency virus and hepatitis C infections induce distinct immunologic imprints in peripheral mononuclear cells (Correspondence). *Hepatology* 2010 Jan;51(1):353.
- Mao H, Tu W, Qin G, **Law HKW**, Sia SF, Chan PL, Liu Y, Lam KT, Zheng J, Peiris JSM and Lau YL (2009) Human and avian influenza viruses directly infect and depress NK cell activity. *Journal of Virology* 2009 Sep 83(18) 9215-9222. Epub 2009 Jul 8.
- **Law HKW**, Cheung CY, Sia SF, Chan YO, Peiris JS, and Lau YL (2009) Toll-like receptors, chemokine receptors and death receptor ligands responses in SARS coronavirus infected human monocyte derived dendritic cells. *BMC Immunology* 2009 Jun 8;10:35.
- Xie XH, **Law HKW**, Wang LJ, Li X, Yang XQ, Liu EM (2009) Lipopolysaccharide Induces IL-6 Production in Respiratory Syncytial Virus-Infected Airway Epithelial Cells Through the Toll-like Receptor 4 Signaling Pathway. *Pediatr Res*. 2009 Feb; 65 (2):156-162. Epub 2008 Oct 22.
- **Law HKW**, Tu W, Liu EM, and Lau YL (2008) Insulin-like growth factor I promotes cord blood T cell maturation through monocytes and inhibits their apoptosis in part through interleukin-6. *BMC Immunology* 2008 Dec 17;9(1):74.
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- Chan WK, Cheung CCH, **Law HKW**, Lau YL, Chan GCF (2008) Ganoderma lucidum polysaccharides can induce human monocytic leukemia cells into dendritic cells with immunostimulatory function. *Journal of Hematology and Oncology* 2008 Jul 21;1(1):9.

- Lam TH, Yuen KY, Ho PL, Wong KC, Leong WM, **Law HKW**, Weng XH, Zhang WH, Chen S, Yam WC (2008) Differential fadE28 expression associated with phenotypic virulence of Mycobacterium tuberculosis. Microbial Pathogenesis 2008 Mar 25; 45:12-17. Epub 2008 Mar 25]
- Xie XH, Liu EM, Yang XQ, **Law HKW**, Li X, Wang LJ, Liu W, Xu WF. (2008) Toll-like receptor 4 expression and function of respiratory syncytial virus-infected airway epithelial cells Zhonghua Jie He He Hu Xi Za Zhi. (Chinese Journal of tuberculosis and respiratory disorder) 2008 Mar;31(3):213-7. Chinese.

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