

**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 and Programme Leader (Radiography), 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:

2020 – Present	HK College of Radiographers & Radiation Therapists	Fellow [General (DR)]
2020 – Present	HK Radiographers Board (Examination Committee)	Chair
2019 – Present	Supplementary Medical Professions Council	(Reg.) Committee Member
2018 – Present	Hong Kong Radiographers Board	Board member
2011 – Present	Hong Kong Radiographers Board	Examiner
2010 – Present	Hong Kong Radiographers Board	Registered (Part I)

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, Infection and Immunity, Cancer Biology, and Imaging Technologies.

SERVICES TO PROFESSIONAL & SCIENTIFIC BODIES, CONSULTANCIES:

2016 – 2019	Health, Safety and Environment Committee (Member)
2015 - 2016	Hong Kong Polytechnic University Senate (Member)
2014 - 2017	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 - 2020	Dept of Health Sci., Caritas Bianchi College of Careers (External Examiner)
2013 - 2019	The Squina International Centre for Infection Control (Affiliated Member)
2012 – 2014	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:

2021	Dept. of HTI, Team Teaching Award 2020/2021 (RT Patient Management)
2020	Faculty Prize for Outstanding Performance/Achievement in Teaching 2019/2020 Dept. of HTI Teaching Award 2019/2020
2018	Faculty Team Prize for Outstanding Performance/Achievement in Teaching 2016/2017 (CSRP) Faculty Prize for Outstanding Performance/Achievement in Teaching 2017/2018 Dept. of HTI Teaching Award 2017/2018
2018	Faculty of Health and Social Sciences Teaching Prize, HK Polytechnic University
2018	Dept. of HTI Teaching Award, Hong Kong Polytechnic University
2017	Faculty of Health and Social Sciences Team Teaching Prize (Clinical Skills), Hong Kong Polytechnic University
2017	Dept. of HTI TeamTeaching 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	Dept. of HTI 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	Dept. of HTI 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 (2011 – 2021; Total >90; h-index = 31):

- Tam SY, Tam VC, **LAW HKW**, Khaw ML and Lee SWY. Rationale for Mass Masking in Controlling the COVID-19 Pandemic (Frontiers in Public Health, Public Health Policy, *In Press*)
- Islam Khan MZ and **Law HKW**. RAMS11 promotes CRC through mTOR-dependent inhibition of autophagy, suppression of apoptosis, and promotion of epithelial-mesenchymal transition. *Cancer Cell International*. 2021; 21:321
- Li Y, Kwong DLW, Yip SP, **Law HKW**, Lee SWY, Ying M, Computer-assisted Ultrasound Assessment of Plaque Characteristics in Radiation-induced and Non-radiation-induced Carotid Atherosclerosis. *Quantitative Imaging in Medicine and Surgery* 2021 11(6):2292-2306
- Islam Khan MZ and **Law HKW**. Cancer Susceptibility Candidate 9 (CASC9) promotes colorectal cancer carcinogenesis via mTORdependent autophagy and epithelial-mesenchymal transition pathways *Frontiers in Molecular Biosciences* 2021 May 4;8:627022
- Tam VCW, Tam SY, Khaw ML, **Law HKW**, Chan CPL, Lee SWY. Behavioural Insights and Attitudes on Community Masking during COVID-19 Outbreak in Hong Kong *Medical Journal* 2021 Apr;27(2):106-112
- Klionsky DJ, et al. Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). *Autophagy*. 2021 Jan;17(1):1-382.
- Kang Y, **Law HKW**, Zhang Y, Wu Y, Zhu GH, Saleem MA, Huang W. TMT-based proteomic analysis reveals the effects of chloroquine on human podocytes *American Journal of Translational Medicine* 2020; 12(8): 4290–4301.
- Tam SY, Tam VC, Ramkumar S, Khaw ML, **Law HKW** and Lee SWY. Review on the cellular mechanisms of low-level laser therapy use in oncology. *Frontiers in Oncology* 10:1255
- Tam VC, Tam SY, Poon WK, **Law HKW** and Lee SWY. A reality check on the use of face masks during the COVID-19 outbreak in Hong Kong. *EclinicalMedicine (Letter)* 22:100356
- Tam SY, Wu VWC and **Law HKW**. Hypoxia-induced Epithelial-mesenchymal transition in cancers: HIF-1 α and beyond. *Frontiers in Oncology* 2020 10:486

- Tam SY, Wu VWC and **Law HKW**. JNK Pathway Mediates Low Oxygen Level-induced Epithelial-mesenchymal Transition and Stemness Maintenance in Colorectal Cancer Cells. *Cancers* 2020 Jan 16;12(1). pii: E224. doi: 10.3390/cancers12010224
- Lee DCW, **Law HKW**, Ajmol A, Sheridan S, Wong SHS, Lee SWY. Compression Garments-induced Leg Changes Increase Hemodynamic Responses in Healthy Individuals. *Int J Sports Med.* 2020 Jan;41(1):3-11
- Kang Y, Feng D, **Law HKW**, Qu W, Wu Y, Zhu GH; Huang WY. Compositional alterations of gut microbiota in children with primary nephrotic syndrome after initial therapy *BMC Nephrol.* 2019 Nov 26;20(1):434
- Wang L, **Law HKW**. Immune complexes impaired glomerular endothelial cell functions in lupus nephritis. *Int. J. Mol. Sci.* 2019, 20, 5281
- Zaw AM, Sekar R, Mak SO, **Law HKW**, and Chow BKC Loss of secretin results in systemic and pulmonary hypertension with cardiopulmonary pathologies in mice. *Scientific Reports* 2019 Oct 2;9(1):14211
- Tam SY, Wu VWC and **Law HKW**. Dynamics of oxygen level-driven regulators in modulating autophagy in colorectal cancer cells. *Biochem Biophys Res Commun.* 2019 Jul 19; 517:193-200
- 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 HKW**, 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 HKW**, 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 HKW**, 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, Lemerrier B, Auriou 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.

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