

Shea-ping YIP (Head & Professor)



[Last update: 2 January 2022]

QUALIFICATIONS: PhD (University College London) 1997 Human Genetics
MPhil (Hong Kong Polytechnic) 1992 Immunogenetics
FIBMS (by examination; specialist subject Haematology) 1988
HC (MLT) (HKU) 1985 Medical Laboratory Technology
ODip (Hong Kong Polytechnic) 1980 Medical Laboratory Science

BRIEF OUTLINE OF EXPERIENCE AND POSTS HELD:

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| Nov 2021 – present | Associate Director, Research Centre for SHARP Vision, PolyU |
| Apr 2016 – present | Associate Director, University Research Facility for Life Science, PolyU |
| Jan 2016 – present | Head, Department of Health Technology & Informatics, PolyU |
| Jul 2014 – present | Honorary Professor, Dept of Pathology, The University of Hong Kong |
| Jul 2013 – Jun 2015 | Associate Head, Department of Health Technology & Informatics, PolyU |
| Jul 2009 - Jun 2013 | Associate Head (Research), Department of Health Technology & Informatics, PolyU |
| May 2005 - present | Professor, Department of Health Technology and Informatics, PolyU |
| Feb 2000 – Apr 2005 | Associate Professor, Biomedical Science Section, School of Nursing, PolyU |
| Oct 1992 - Jan 2000 | Assistant Professor/Lecturer (College of Degree Studies), Biomedical Science Section, Department of Nursing & Health Sciences, PolyU |
| Oct 1990 - Sept 1992 | Lecturer, Department of Health Sciences, Hong Kong Polytechnic |
| Jul 1987 - Nov 1990 | Medical Technologist, United Christian Hospital, Hong Kong |
| Jan 1987 - Jul 1987 | Acting Medical Technologist, United Christian Hospital, Hong Kong |
| Sept 1980 - Jan 1987 | Medical Laboratory Technician II, United Christian Hospital, Hong Kong |

RESEARCH INTERESTS:

Genetic variation: its detection, application and significance in relation to human health-related conditions. Genetic analysis of complex diseases (myopia, cancer, etc) and molecular diagnostics.

Current major projects focus on (1) Genomics of ocular diseases, (2) Molecular genetics of blood cancers, and (3) Molecular diagnostics.

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Scopus Author ID : [7102133673](https://orcid.org/7102133673)

SERVICES TO PROFESSIONAL & SCIENTIFIC BODIES, CONSULTANCIES:

- Examiners for postgraduate research theses
- Members of Editorial Boards for academic journals:
Frontiers in Genetics (Sept 2011 – present)
HOAJ Biology (Jan 2012 – present)
Austin Journal of Clinical Ophthalmology (Oct 2013 – present)
- Reviewer for academic journals (*Archives of Ophthalmology*, *BioTechniques*, *Blood*, *British Journal of Haematology*, *BMC Genetics*, *Clinical Chemistry*, *Investigative Ophthalmology and Visual Science*, *Journal of Biomedicine and Biotechnology*, *Journal of Medical Genetics*, *Molecular Biology and Evolution*, *Molecular Vision*, *Transfusion*, *Transfusion Medicine*, and *Vox Sanguinis*)
- Reviewer for research grants/proposals
GRF and NSFC/RGC proposals (Research Grant Council, HK), National Medical Research Council (Singapore), and Auckland Medical Research Foundation (New Zealand)
Member, Grant Review Board (Food and Health Bureau, Government of Hong Kong SAR) for the *Health and Health Services Research Fund* (HHSRF) and the *Research Fund for the Control of Infectious Diseases* (RFCID), 1 Oct 2007 to 30 Sept 2013. [Since July 2012, these two research funds were incorporated into the new *Health and Medical Research Fund* (HMRF).]
- Member, Supplementary Medical Professions Council, Food and Health Bureau, Hong Kong SAR Government (1 Oct 2017 – present)
- Member, Research Council, Food and Health Bureau, (1 Oct 2017 to present)
- [Co-Chair, Grant Review Board, Health and Medical Research Fund, Food and Health Bureau \(1 Mar 2013 to present\)](#)
- Member, Grant Review Board, Research Fund for Control of Infectious Diseases, Food and Health Bureau (1 Oct 2007 to 28 Feb 2013)
- Chairman, Organizing Committee, *International Conference on Advanced Molecular Technologies* held on 7-9 March 2014 in Hong Kong
- Member, Local Organizing Committee for *9th Asia-Pacific Conference on Human Genetics* held on 30 Nov – 3 Dec 2010
- Chairman of Scientific Affairs, Organizing Committee for *2nd Asia Pacific Symposium on Advanced Molecular Technologies – New Horizon in Molecular Diagnostics* held on 13-15 August 2010.
- Member, Local Organizing Committee for the *ACGA-HKSMG International Conference on “Genetic and Genomic Medicine”* held on 8-11 June 2008.
- Member, Medical Laboratory Technologists Board, HK (Mar 2006 – Feb 2012)
- HOKLAS Assessor (Medical) for Hong Kong Accreditation Service, Hong Kong SAR Government, for accrediting medical laboratories (April 2005 – present)

- Founding Council Member & Academic Secretary, Hong Kong Society of Molecular Diagnostic Sciences, June 2003 - present)

AWARDS AND PATENTS:

- Patent on “Method of closed-tube colorimetric detection of loop-mediated isothermal amplification using gold nanoparticles” granted on 12 Jan 2021 (PRC Application Number: 201410073730.4), Inventors: Thomas Ming Hung Lee, Jacky Kwun Fung Wong and **Shea Ping Yip**.
- Patent on “Ultra-Stable Oligonucleotide–Gold and –Silver Nanoparticle Conjugates Prepared by a Facile Silica Reinforcement Method” granted on 28 Mar 2017 (U.S. Patent No.: 9,605,304), Inventors: Thomas Ming Hung Lee, Jacky Kwun Fung Wong and **Shea Ping Yip**.
- The J Lloyd Hewett Award 2012
A joint recipient of the award for a paper published in *Clinical and Experimental Optometry*. Selection is based on the importance of the issue addressed and significance of the conclusions of the paper, intellectual and technical difficulty and elegance of investigation or analysis, quality of the writing and soundness of arguments, referee ratings and the number of citations the paper received.
Kwan WC, **Yip SP**, Yap MK. Monochromatic aberrations of the human eye and myopia. *Clin Exp Optom* 2009; **92**: 304-312.
- Commonwealth Academic Staff Scholarship (Sept 1994 to Sep 1997).
This was awarded by the Commonwealth Scholarship Commission in the United Kingdom for full-time PhD studies in Human Genetics at the University College London, University of London, UK.

REPRESENTATIVE PUBLICATIONS

(Journal articles, book chapters, monographs and conference papers; Total: 279)

Papers indexed in PubMed [\[Go to PubMed\]](#)

* stands for corresponding or co-corresponding author.

Genetics of ocular diseases (32 articles)

1. Fan Q*, Pozarickij A, Tan NYQ, Guo X, Verhoeven VJM, Vitart V, Guggenheim JA, Miyake M, Tideman JWL, Khawaja AP, Zhang L, MacGregor S, Höhn R, Chen P, Biino G, Wedenoja J, Saffari SE, Tedja MS, Xie J, Lanca C, Wang YX, Sahebjada S, Mazur J, Mirshahi A, Martin NG, Yazar S, Pennell CE, Yap M, Haarman AEG, Enthoven CA, Polling J; Consortium for Refractive Error and Myopia (CREAM); UK Biobank Eye and Vision Consortium, Hewitt AW, Jaddoe VWV, van Duijn CM, Hayward C, Polasek O, Tai ES, Yoshikatsu H, Hysi PG, Young TL, Tsujikawa A, Wang JJ, Mitchell P, Pfeiffer N, Pärssinen O, Foster PJ, Fossarello M, **Yip SP**, Williams C, Hammond CJ, Jonas JB, He M, Mackey DA, Wong TY, Klaver CCW, Saw SM, Baird PN, Cheng CY*. Genome-wide association meta-analysis of corneal curvature identifies novel loci and shared genetic influences across axial length and refractive error. *Commun Biol* 2020; **3**: 133. [\[Abstract in PubMed\]](#)
2. Leung KH, Luo S, Kwarteng R, Chen SG, Yap MK, Huang CL*, **Yip SP***. The myopia susceptibility locus vasoactive intestinal peptide receptor 2 (VIPR2) contains variants with

- opposite effects. *Sci Rep* 2019; **9**: 18165. [[Abstract in PubMed](#)]
3. Huang Y, Kee CS, Hocking PM, The UK Biobank Eye & Vision Consortium, The CREAM Consortium, Williams C, **Yip SP***, Guggenheim JA*. A genome-wide association study for susceptibility to visual experience-induced myopia. *Invest Ophthalmol Vis Sci* 2019; **60**:559-69. [[Abstract in PubMed](#)]
 4. Li SK, Shan SW, Li HL, Cheng AK, Pan F, **Yip SP**, Civan MM, To CH, Do CW*. Characterization and Regulation of Gap Junctions in Porcine Ciliary Epithelium. *Invest Ophthalmol Vis Sci* 2018; **59**: 3461-8. [[Abstract in PubMed](#)]
 5. Xi LS, **Yip SP**, Shan SW, Summers-Rada J, Kee CS*. Region-specific differential corneal and scleral mRNA expressions of MMP2, TIMP2, and TGF β 2 in highly myopic-astigmatic chicks. *Sci Rep* 2017; **7**: 11423. [[Abstract in PubMed](#)]
 6. Liao X, Yap MK, Leung KH, Kao PY, Liu LQ, **Yip SP***. Genetic association study of KCNQ5 polymorphisms with high myopia. *Biomed Res Int* 2017; **2017**: 3024156. [[Abstract in PubMed](#)]
 7. Kao PY, Leung KH, Chan LW, **Yip SP***, Yap MK. Pathway analysis of complex diseases for GWAS, extending to consider rare variants, multi-omics and interactions. *Biochim Biophys Acta* 2017; **1861**: 335-53. [[Abstract in PubMed](#)]
 8. Fan Q, Verhoeven VJ, Wojciechowski R, Barathi VA, Hysi PG, Guggenheim JA, Höhn R, Vitart V, Khawaja AP, Yamashiro K, Hosseini SM, Lehtimäki T, Lu Y, Haller T, Xie J, Delcourt C, Pirastu M, Wedenoja J, Gharahkhani P, Venturini C, Miyake M, Hewitt AW, Guo X, Mazur J, Huffman JE, Williams KM, Polasek O, Campbell H, Rudan I, Vataavuk Z, Wilson JF, Joshi PK, McMahon G, St Pourcain B, Evans DM, Simpson CL, Schwantes-An TH, Igo RP, Mirshahi A, Cougnard-Gregoire A, Bellenguez C, Blettner M, Raitakari O, Kähönen M, Seppala I, Zeller T, Meitinger T; Consortium for Refractive Error and Myopia, Ried JS, Gieger C, Portas L, van Leeuwen EM, Amin N, Uitterlinden AG, Rivadeneira F, Hofman A, Vingerling JR, Wang YX, Wang X, Tai-Hui Boh E, Ikram MK, Sabanayagam C, Gupta P, Tan V, Zhou L, Ho CE, Lim W, Beuerman RW, Siantar R, Tai ES, Vithana E, Mihailov E, Khor CC, Hayward C, Luben RN, Foster PJ, Klein BE, Klein R, Wong HS, Mitchell P, Metspalu A, Aung T, Young TL, He M, Pärssinen O, van Duijn CM, Jin Wang J, Williams C, Jonas JB, Teo YY, Mackey DA, Oexle K, Yoshimura N, Paterson AD, Pfeiffer N, Wong TY, Baird PN, Stambolian D, Wilson JE, Cheng CY, Hammond CJ, Klaver CC*, Saw SM*, Rahi JS, Korobelnik JF, Kemp JP, Timpson NJ, Smith GD, Craig JE, Burdon KP, Fogarty RD, Iyengar SK, Chew E, Janmahasatian S, Martin NG, MacGregor S, Xu L, Schache M, Nangia V, Panda-Jonas S, Wright AF, Fondran JR, Lass JH, Feng S, Zhao JH, Khaw KT, Wareham NJ, Rantanen T, Kaprio J, Pang CP, Chen LJ, Tam PO, Jhanji V, Young AL, Döring A, Raffel LJ, Cotch MF, Li X, **Yip SP**, Yap MK, Biino G, Vaccargiu S, Fossarello M, Fleck B, Yazar S, Tideman JW, Tedja M, Deangelis MM, Morrison M, Farrer L, Zhou X, Chen W, Mizuki N, Meguro A, Mäkelä KM. Meta-analysis of gene-environment-wide association scans accounting for education level identifies additional loci for refractive error. *Nat Commun* 2016; **7**: 11008. [[Abstract in PubMed](#)]
 9. Miyake M, Yamashiro K*, Tabara Y, Suda K, Morooka S, Nakanishi H, Khor CC, Chen P, Qiao F, Nakata I, Akagi-Kurashige Y, Gotoh N, Tsujikawa A, the Nagahama Study Group, Meguro A, Kusuhara S, Polasek O, Hayward C, Wright AF, Campbell H, Richardson AJ, Schache M, Takeuchi M, Mackey DA, Hewitt AW, Cuellar G, Shi Y, Huang L, Yang Z, Leung KH, Kao PY, Yap MK, **Yip SP**, Moriyama M, Ohno-Matsui K, Mizuki N, MacGregor S, Vitart V, Saw SM, Tai ES, Wong TY, Cheng CY, Baird PN, Yamada R, Matsuda F, Yoshimura N. Identification of the WNT7B gene provides insights into the

mechanism underlying myopia development. *Nat Commun* 2015; 6: 6689. [\[Abstract in PubMed\]](#)

10. Li Q, Wojciechowski R, Simpson CL, Hysi PG, Verhoeven VJ, Ikram MK, Höhn R, Vitart V, Hewitt AW, Oexle K, Mäkelä KM, MacGregor S, Pirastu M, Fan Q, Cheng CY, St Pourcain B, McMahon G, Kemp JP, Northstone K, Rahi JS, Cumberland PM, Martin NG, Sanfilippo PG, Lu Y, Wang YX, Hayward C, Polašek O, Campbell H, Bencic G, Wright AF, Wedenoja J, Zeller T, Schillert A, Mirshahi A, Lackner K, **Yip SP**, Yap MK, Ried JS, Gieger C, Murgia F, Wilson JF, Fleck B, Yazar S, Vingerling JR, Hofman A, Uitterlinden A, Rivadeneira F, Amin N, Karssen L, Oostra BA, Zhou X, Teo YY, Tai ES, Vithana E, Barathi V, Zheng Y, Siantar RG, Neelam K, Shin Y, Lam J, Yonova-Doing E, Venturini C, Hosseini SM, Wong HS, Lehtimäki T, Kähönen M, Raitakari O, Timpson NJ, Evans DM, Khor CC, Aung T, Young TL, Mitchell P, Klein B, van Duijn CM, Meitinger T, Jonas JB, Baird PN, Mackey DA, Wong TY, Saw SM, Pärssinen O, Stambolian D, Hammond CJ, Klaver CC, Williams C, Paterson AD, Bailey-Wilson JE, Guggenheim JA*; The CREAM Consortium. Genome-wide association study for refractive astigmatism reveals genetic co-determination with spherical equivalent refractive error: the CREAM consortium. *Hum Genet* 2015; **134**: 131-46. [\[Abstract in PubMed\]](#)
11. Cheng CY, Schache M, Ikram MK, Young TL, Guggenheim JA, Vitart V, MacGregor S, Verhoeven VJ, Barathi VA, Liao J, Hysi PG, Bailey-Wilson JE, St Pourcain B, Kemp JP, McMahon G, Timpson NJ, Evans DM, Montgomery GW, Mishra A, Wang YX, Xing Y, Wang JJ, Rochtchina E, Polasek O, Wright AF, Amin N, van Leeuwen EM, Wilson JF, van Duijn CM, de Jong PT, Vingerling JR, Zhou X, Chen P, Li R, Tay WT, Zheng Y, Chew M, Consortium for Refractive Error and Myopia, Burdon KP, Craig JE, Iyengar SK, Igo RP, Lass JH, Fuchs, Genetics Multi-Center Study Group, Chew EY, Haller T, Mihailov E, Metspalu A, Simpson CL, Wojciechowski R, Hoehn R, Mirshahi A, Zeller T, Pfeiffer N, Lackner KJ, Wellcome Trust Case Control Consortium, Bettecken T, Meitinger T, Oexle K, Pirastu M, Portas L, Nag A, Williams KM, Yonova-Doing E, Klein R, Klein BE, Hosseini SM, Paterson AD, Diabetes Control and Complications Trial/Epidemiology of Diabetes Interventions, and Complications Research Group, Makela KM, Lehtimaki T, Kahonen M, Raitakari O, Yoshimura N, Matsuda F, Chen LJ, Pang CP, **Yip SP**, Yap MK, Meguro A, Mizuki N, Inoko H, Foster PJ, Zhao JH, Vithana E, Tai ES, Fan Q, Campbell H, Fleck B, Aung T, Hofman A, Uitterlinden AG, Bencic G, Khor CC, Forward H, Pärssinen O, Rivadeneira F, Hewitt AW, Williams C, Oostra BA, Teo YY, Hammond CJ, Stambolian D, Klaver CC, Wong TY, Saw SM*, Baird PN*. Nine loci for ocular axial length identified through genome-wide association studies, including shared loci with refractive error. *Am J Hum Genet* 2013; **93**, 264-77. [\[Abstract in PubMed\]](#)
12. Lechner J, Bae HA, Guduric-Fuchs J, Rice A, Govindarajan G, Siddiqui S, Abi Farraj L, **Yip SP**, Yap MK, Das MR, Souzeau E, Coster D, Mills RA, Lindsay R, Phillips T, Mitchell P, Ali M, Inglehearn CF, Sundaresan P, Craig JE, Simpson DA, Burdon KP, Willoughby CE*. Mutational analysis of MIR184 in sporadic keratoconus and myopia. *Invest Ophthalmol Vis Sci* 2013; **54**: 5266-72. [\[Abstract in PubMed\]](#)
13. **Yip SP***, Li CC, Yiu WC, Hung WH, Lam WW, Lai MC, Ng PW, Fung WY, Chu PH, Jiang B, Chan HH, Yap MK. A novel missense mutation in the NYX gene associated with high myopia. *Ophthalmic Physiol Opt* 2013; **33**: 346-53. [\[Abstract in PubMed\]](#)
14. Yiu WC, Fung WY, Ng PW, Yap MK, **Yip SP***. Genetic susceptibility to refractive error: association of vasoactive intestinal peptide receptor 2 (VIPR2) with high myopia in Chinese. *PLoS One* 2013; **8**: e61805. [\[Abstract in PubMed\]](#)
15. Verhoeven VJ, Hysi PG, Wojciechowski R, Fan Q, Guggenheim JA, Höhn R, MacGregor S, Hewitt AW, Nag A, Cheng CY, Yonova-Doing E, Zhou X, Ikram MK, Buitendijk GH,

McMahon G, Kemp JP, Pourcain BS, Simpson CL, Mäkelä KM, Lehtimäki T, Kähönen M, Paterson AD, Hosseini SM, Wong HS, Xu L, Jonas JB, Pärssinen O, Wedenoja J, **Yip SP**, Ho DW, Pang CP, Chen LJ, Burdon KP, Craig JE, Klein BE, Klein R, Haller T, Metspalu A, Khor CC, Tai ES, Aung T, Vithana E, Tay WT, Barathi VA, the CREAM Consortium, Chen P, Li R, Liao J, Zheng Y, Ong RT, Döring A, Evans DM, Timpson NJ, Meitinger T, Raitakari O, Hawthorne F, Spector TD, Karszen LC, Pirastu M, Murgia F, Ang W, Mishra A, Montgomery GW, Pennell CE, Cumberland PM, Cotlarciuc I, Mitchell P, Wang JJ, Schache M, Janmahasathian S, Igo Jr RP, Lass JH, Chew E, Iyengar SK, the Fuchs' Genetics Multi-Center Study Group, Gorgels TG, Rudan I, Hayward C, Wright AF, Polasek O, Vataavuk Z, Wilson JF, Fleck B, Zeller T, Mirshahi A, Müller C, Uitterlinden AG, Rivadeneira F, Vingerling JR, Hofman A, Oostra BA, Amin N, Bergen AA, Teo YY, Rahi JS, Vitart V, Williams C, Baird PN, Wong TY, Oexle K, Pfeiffer N, Mackey DA, Young TL, van Duijn CM, Saw SM, Bailey-Wilson JE, Stambolian D, Klaver CC*, Hammond CJ. Genome-wide meta-analyses of multi-ethnic cohorts identify multiple new susceptibility loci for refractive error and myopia. *Nat Genet* 2013; **45**: 314-8. [[Abstract in PubMed](#)]

16. Zhu MM, Yap MK, Ho DW, Fung WY, Ng PW, Gu YS, **Yip SP***. Investigating the relationship between UMODL1 gene polymorphisms and high myopia: a case-control study in Chinese. *BMC Med Genet* 2012; **13**: 64. [[Abstract in PubMed](#)]
17. Ho DW, Yap MK, Ng PW, Fung WY, **Yip SP***. Association of high myopia with crystalline beta A4 (CRYBA4) gene polymorphisms in the linkage-identified MYP6 locus. *PLoS One* 2012; **7**: e40238. [[Abstract in PubMed](#)]
18. Mak JY, Yap MK, Fung WY, Ng PW, **Yip SP***. Association of IGF1 gene haplotypes with high myopia in Chinese adults. *Arch Ophthalmol* 2012; **130**: 209-216. [[Abstract in PubMed](#)]
19. **Yip SP***, Leung KH, Ng PW, Fung WY, Sham PC, Yap MK. Evaluation of proteoglycan gene polymorphisms as risk factors in the genetic susceptibility to high myopia. *Invest Ophthalmol Vis Sci* 2011; **52**: 6396-403. [[Abstract in PubMed](#)]
20. Jiang B, Yap MK, Leung KM, Ng PW, Fung WY, Lam WW, Yang YS, **Yip SP***. PAX6 haplotypes are associated with high myopia in Han Chinese. *PLoS One* 2011; **6**: e19587. [[Abstract in PubMed](#)]
21. Leung KH, Yiu WC, Yap MK, Ng PW, Fung WY, Sham PC, **Yip SP***. Systematic investigation of the relationship between high myopia and polymorphisms of the MMP2, TIMP2 and TIMP3 genes by a DNA pooling approach. *Invest Ophthalmol Vis Sci* 2011; **52**: 3893-900. [[Abstract in PubMed](#)]
22. **Yip SP***, Leung KH, Fung WY, Ng PW, Sham PC, Yap MK. A DNA pooling-based case-control study of myopia candidate genes COL11A1, COL18A1, FBN1, and PLOD1 in a Chinese population. *Mol Vis* 2011; **17**: 810-821. [[Abstract in PubMed](#)]
23. Yu YS, Wang LL, Shen Y, Yap MK, **Yip SP**, Han W*. Investigation of the association between all-trans-retinol dehydrogenase (*RDH8*) polymorphisms and high myopia in Chinese. *J Zhejiang Univ Sci B* 2010; **11**: 836-841. [[Abstract in PubMed](#)]
24. Lim KP, **Yip SP***, Cheung SC, Leung KW, Lam ST, To CH. Novel *PRPF31* and *PRPH2* mutations and co-occurrence of *PRPF31* and *RHO* mutations in Chinese retinitis pigmentosa patients. *Arch Ophthalmol* 2009; **127**: 784-790. [[Abstract in PubMed](#)]
25. Zha Y, Leung KH, Lo KK, Fung WY, Ng PW, Shi MG, Yap MK, **Yip SP***. *TGFBI* is a susceptibility gene for high myopia: a replication study with new findings. *Arch Ophthalmol* 2009; **127**: 541-548. [[Abstract in PubMed](#)]

26. Kwan WC*, **Yip SP**, Yap MK. Monochromatic aberrations of the human eye and myopia. *Clin Exp Optom* 2009; **92**: 304-312. [[Abstract in PubMed](#)]
27. Han W, Leung KH, Fung WY, Mak JY, Li YM, Yap MKH, **Yip SP***. Association of *PAX6* polymorphisms with high myopia in Han Chinese nuclear families. *Invest Ophthalmol Vis Sci* 2009; **50**: 47–56. [[Abstract in PubMed](#)]
28. Tang WC, Yap MK, **Yip SP***. A review of current approaches to identifying human genes involved in myopia. *Clin Exp Optom* 2008; **91**: 4-22. [[Abstract in PubMed](#)]
29. **Yip SP***, Cheung TS, Chu MY, Cheung SC, Leung KW, Tsang KP, Lam ST, To CH. Novel truncating mutations of the CHM gene in Chinese patients with choroideremia. *Mol Vis* 2007; **13**: 2183-2193. [[Abstract in PubMed](#)]
30. Tang WC, **Yip SP***, Lo KK, Ng PW, Choi PS, Lee SY, Yap MK. Linkage and association of myocilin (MYOC) polymorphisms with high myopia in a Chinese population. *Mol Vis* 2007; **13**: 534-544. [[Abstract in PubMed](#)]
31. Han W*, Kwan W, Wang J, **Yip SP**, Yap M. Influence of eyelid position on wavefront aberrations. *Ophthalmic Physiol Opt* 2007; **27**: 66-75. [[Abstract in PubMed](#)]
32. Han W*, Yap MK, Wang J, **Yip SP**. Family-based association analysis of hepatocyte growth factor (HGF) gene polymorphisms in high myopia. *Invest Ophthalmol Vis Sci* 2006; **47**:2291–2299. [[Abstract in PubMed](#)]

Cancers: detection, mechanisms, genetics and complications of treatment (20 articles)

1. Wong NK, Luo S, Chow EY, Meng F, Adesanya A, Sun J, Ma HM, Jin W, Li WC, **Yip SP***, Huang CL*. The tyrosine kinase-driven networks of novel long non-coding RNAs and their molecular targets in myeloproliferative neoplasms. *Front Cell Dev Biol* 2021; **9**: 643043. [[Abstract in PubMed](#)]
2. Wong NK, Huang CL*, Islam R, **Yip SP***. Long non-coding RNAs in hematological malignancies: translating basic techniques into diagnostic and therapeutic strategies. *J Hematol Oncol* 2018; **11**: 131. [[Abstract in PubMed](#)]
3. Baig FN, Liu SY, **Yip SP**, Law HK, Ying MT*. Update on ultrasound diagnosis for thyroid cancer. *Hong Kong J Radiol* 2018; **21**:82-93.
4. Baig FN, Liu SY, Lam HC, **Yip SP**, Law HK*, Ying M*. Shear wave elastography combining with conventional grey scale ultrasound improves the diagnostic accuracy in differentiating benign and malignant thyroid nodules. *Appl Sci* 2017; **7**: 1103.
5. Baig FN, van Lunenburg JT, Liu SY, Lam HC, **Yip SP**, Law HK*, Ying M*. Computer-aided assessment of regional vascularity of thyroid nodules for prediction of malignancy. *Sci Rep* 2017; **7**: 14350. [[Abstract in PubMed](#)]
6. Yuan C, Wu VW, **Yip SP**, Kwong DL, Ying M*. Ultrasound evaluation of carotid atherosclerosis in post-radiotherapy nasopharyngeal carcinoma patients, type 2 diabetics and healthy controls. *Ultraschall Med* 2017; **38**: 190-7. [[Abstract in PubMed](#)]
7. Chan LW, Lin X, Yung G, Lui T, Chiu YM, Wang F, Tsui NB, Cho WC, **Yip SP**, Siu PM, Wong SC, Yung BY*. Novel structural co-expression analysis linking the NPM1-associated

ribosomal biogenesis network to chronic myelogenous leukemia. *Sci Rep* 2015; **5**: 10973. [\[Abstract in PubMed\]](#)

8. Yuan C, **Yip SP**, Wu VW, Kwong DL, Cheuk IW, Ying M*. Association between genetic polymorphisms and carotid atherosclerosis in patients treated with nasopharyngeal carcinoma. *Radiat Oncol* 2015; **10**: 39. [\[Abstract in PubMed\]](#)
9. Wang F, Chan LW*, Tsui NB, Wong CS, Siu PM, **Yip SP**, Yung BY. Co-expression pattern analysis of NPM1-associated genes in chronic myelogenous leukemia. *Biomed Res Int* 2015; **2015**: 610595. [\[Abstract in journal website\]](#)
10. Koh SP, **Yip SP***, Lee KK, Chan CC, Lau SM, Kho CS, Lau CK, Lin SY, Lau YM, Wong LG, Au KL, Wong KF, Chu RW, Yu PH, Chow EE, Leung KF, Choi WC, Yung BY. Genetic association between germline JAK2 polymorphisms and myeloproliferative neoplasms in Hong Kong Chinese population: a case-control study. *BMC Genet* 2014; **15**: 147. [\[Abstract in PubMed\]](#)
11. Yuan C, Wu VW, **Yip SP**, Kwong DL, Ying M*. Predictors of the extent of carotid atherosclerosis in patients treated with radiotherapy for nasopharyngeal carcinoma. *PLoS One* 2014; **9**: e116284. [\[Abstract in PubMed\]](#)
12. Wang F, Chan LW*, Cho CS, Tang P, Yu J, Shyu CR, Wong C, **Yip SP**, Yung YM. 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; **104**: 504-11. [\[Abstract in PubMed\]](#)
13. Wang F, Cho WC, Chan LW*, Wong SC, Tsui NB, Siu PM, **Yip SP**, Yung BY. Gene network exploration of crosstalk between apoptosis and autophagy in chronic myelogenous leukemia. *Biomed Res Int* 2014; **2014**: 459840. [\[Abstract in journal website\]](#)
14. Wang F, Chan LW*, Cho WC, Tang P, Yu J, Shyu CR, Tsui NB, Wong SC, Siu PM, **Yip SP**, Yung BY. Novel approach for coexpression analysis of E2F1-3 and MYC target genes in chronic myelogenous leukemia. *Biomed Res Int* 2014; **2014**: 439840. [\[Abstract in PubMed\]](#)
15. Cheuk IW, **Yip SP**, Kwong DL, Wu VW*. Association of XRCC1 and XRCC3 gene haplotypes with the development of radiation - induced fibrosis in patients with nasopharyngeal carcinoma. *Mol Clin Oncol* 2014; **2**: 553-558. [\[Abstract in PubMed\]](#)
16. Wang F, Wong SC, Chan LW*, Cho WC, **Yip SP**, Yung BY. Multiple regression analysis of mRNA-miRNA associations in colorectal cancer pathway. *Biomed Res Int* 2014; **2014**: 676724. [\[Abstract in PubMed\]](#)
17. Tian F, **Yip SP**, Kwong DL, Lin Z, Yang Z, Wu VW*. Promoter hypermethylation of tumor suppressor genes in serum as potential biomarker for the diagnosis of nasopharyngeal carcinoma. *Cancer Epidemiol* 2013; **37**:708-13. [\[Abstract in PubMed\]](#)
18. Lee SY, Luk SK, Chuang CP, **Yip SP**, To SS*, Yung YM. TP53 regulates human AlkB homologue 2 expression in glioma resistance to Photofrin-mediated photodynamic therapy. *Br J Cancer* 2010; **103**: 362-369. [\[Abstract in PubMed\]](#)
19. Chan KY, Liu W, Long JR, **Yip SP**, Chan SY, Shu XO, Chua DT, Cheung AN, Ching JC, Cai H, Au GK, Chan M, Foo W, Ngan HY, Gao YT, Ngan ES, Garcia-Barcelo MM, Zheng W, Khoo US*. Functional polymorphisms in the promoter of BRCA1 influences transcription and are associated with decreased risk for breast cancer in Chinese women. *J Med Genet*

2009; **46**: 32-39. [\[Abstract in PubMed\]](#)

20. Chan KY, Cheung ANY, **Yip SP**, Ko HH, Lai TW, Khoo US*. Re: Population-based case-control study of HER2 genetic polymorphism and breast cancer risk. *J Natl Cancer Inst* 2002; **94**:1581-1582. [\[Abstract in PubMed\]](#)

Infectious diseases: detection, epidemiology and genetics (21 articles)

1. Gedefaw L, Ullah S, Lee TM, **Yip SP***, Huang CL*. Targeting inflammasome activation in COVID-19: Delivery of RNA interference-based therapeutic molecules. *Biomedicines* 2021; **9**: 1823. [\[Abstract in PubMed\]](#)
2. Meng F, Siu GK, Mok BW, Sun J, Fung KS, Lam JY, Wong NK, Gedefaw L, Luo S, Lee TM, **Yip SP***, Huang CL*. Viral microRNAs encoded by nucleocapsid gene of SARS-CoV-2 are detected during infection, and targeting metabolic pathways in host cells. *Cells* 2021; **10**: 1762. [\[Abstract in PubMed\]](#)
3. Gedefaw L, Ullah S, Leung PHM, Cai Y, **Yip SP***, Huang CL*. Inflammasome activation-induced hypercoagulopathy: Impact on cardiovascular dysfunction triggered in COVID-19 patients. *Cells* 2021; **10**: 916. [\[Abstract in PubMed\]](#)
4. Leung KS, Ng TT, Wu AK, Yau MC, Lao HY, Choi MP, Tam KK, Lee LK, Wong BK, Ho AY, Yip KT, Lung KC, Liu RW, Tso EY, Leung WS, Chan MC, Ng YY, Sin MK, Fung KS, Chau SK, To WK, Que TL, Shum DH, **Yip SP**, Yam WC, Siu GK*. Territorywide study of early coronavirus disease outbreak, Hong Kong, China. *Emerg Infect Dis* 2021; **27**: 196-204. [\[Abstract in PubMed\]](#)
5. Siu GK*, Lee LK, Leung KS, Leung JS, Ng TT, Chan CT, Tam KK, Lao HY, Wu AK, Yau MC, Lai YW, Fung KS, Chau SK, Wong BK, To WK, Luk K, Ho AY, Que TL, Yip KT, Yam WC, Shum DH, **Yip SP**. Will a new clade of SARS-CoV-2 imported into the community spark a fourth wave of the COVID-19 outbreak in Hong Kong? *Emerg Microbes Infect* 2020; **9**: 2497-500. [\[Abstract in PubMed\]](#)
6. Zaki H*, Gasmelseed N, Abdalla B, **Yip SP**. Association of toll-like receptor 2 polymorphisms with susceptibility to pulmonary tuberculosis in Sudanese. *Egyptian J Med Hum Genet* 2018; **18**: 261-5. [\[Abstract in journal website\]](#)
7. Lo CL, **Yip SP**, Leung PH*. Seroprevalence of dengue in the general population of Hong Kong. *Trop Med Int Health* 2013; **18**: 1097-102. [\[Abstract in PubMed\]](#)
8. Lee N*, Wong CK, Hui DS, Lee SK, Wong RY, Ngai KL, Chan MC, Chu YJ, Ho AW, Lui GC, Wong BC, Wong SH, **SP Yip**, Chan PK. Role of human toll-like receptors in naturally occurring influenza A infections. *Influenza Other Respi Viruses* 2013; **7**: 666-75. [\[Abstract in PubMed\]](#)
9. Zaki HY, Leung KH, Yiu WC, Gasmelseed N, Elwali NE, **Yip SP***. Common polymorphisms in the TLR4 gene are associated with susceptibility to pulmonary tuberculosis in Sudanese. *Int J Tuberc Lung Dis* 2012; **16**: 934-40. [\[Abstract in PubMed\]](#)
10. Lo CL, **Yip SP**, Wei SJ, Levi JE, Leung PH*. A simple and economic quadruplex one-step reverse transcription-PCR assay for detecting and typing dengue viruses. *Clin Chim Acta* 2011; **412**: 2008-2010. [\[Abstract in PubMed\]](#)

11. Chan KY, Xu MS, Ching JC, Chan VS, Ip YC, Yam L, Chu CM, Lai ST, So KM, Wong TY, Chung PH, Tam P, **Yip SP**, Sham P, Lin CL, Leung GM, Peiris JS, Khoo US*. Association of a single nucleotide polymorphism in the *CD209* (*DC-SIGN*) promoter with SARS severity. *Hong Kong Med J* 2010; **16**(5 Suppl 4): 37-42. [[Abstract in PubMed](#)]
12. Khoo US*, Chan KY, Ching JC, Chan VS, Ip YC, Yam L, Chu CM, Lai ST, So KM, Wong TY, Chung PH, Tam P, **Yip SP**, Sham P, Leung GM, Lin CL, Peiris JS. Functional role of *ICAM-3* polymorphism in genetic susceptibility to SARS infection. *Hong Kong Med J* 2009; **15** Suppl 6: 26-29. [[Abstract in PubMed](#)]
13. Khoo US*, Chan KY, Chan VS, Ching JC, Yam L, Chu CM, Lai ST, Wong TY, Tam P, **Yip SP**, Leung GM, Lin CL, Peiris JS. Role of polymorphisms of the inflammatory response genes and DC-SIGNR in genetic susceptibility to SARS and other infections. *Hong Kong Med J* 2008; **14** Suppl 4: 31-35. [[Abstract in PubMed](#)]
14. Lo CL, Leung PH*, **Yip SP**, To TS, Ng TK, Kam KM. Rapid detection of pathogenic *Vibrio parahaemolyticus* by a sensitive and specific duplex PCR-hybridization probes assay using LightCycler. *J Appl Microbiol* 2008; **105**: 575-584. [[Abstract in PubMed](#)]
15. Chan KY, Ching JC, Xu MS, Cheung AN, **Yip SP**, Yam LY, Lai ST, Chu CM, Wong AT, Song YQ, Huang FP, Liu W, Chung PH, Leung GM, Chow EY, Chan EY, Chan JC, Ngan HY, Tam P, Chan LC, Sham P, Chan VS, Peiris M, Lin SC, Khoo US*. Association of ICAM3 Genetic Variant with Severe Acute Respiratory Syndrome. *J Infect Dis* 2007; **196**: 271-280. [[Abstract in PubMed](#)]
16. Chan KY, Chan VS, Chen Y, **Yip SP**, Lin CL, Khoo US*. Reply to "Lack of support for an association between CLEC4M homozygosity and protection against SARS coronavirus infection". *Nat Genet* 2007; **39**: 694-696.
17. Lo CL, **Yip SP**, Cheng PK, To SS, Lim WW, Leung PH*. One-step rapid reverse transcription-PCR assay for detecting and typing dengue viruses with GC tail and induced fluorescence resonance energy transfer techniques for melting temperature and color multiplexing. *Clin Chem* 2007; **53**: 594-599. [[Abstract in PubMed](#)]
18. Leung KH, **Yip SP***, Wong WS, Yiu LS, Chan KK, Lai WM, Chow EY, Lin CK, Yam WC, Chan KS. Sex- and age-dependent association of SLC11A1 polymorphisms with tuberculosis in Chinese: a case-control study. *BMC Infect Dis* 2007; **7**:19. [[Abstract in PubMed](#)]
19. Chan VS, Chan KY, Chen Y, Poon LL, Cheung AN, Zheng B, Chan KH, Mak W, Ngan HY, Xu X, Sreaton G, Tam PK, Austyn JM, Chan LC, **Yip SP**, Peiris M, Khoo US*, Lin CL*. Homozygous L-SIGN (CLEC4M) plays a protective role in SARS coronavirus infection. *Nat Genet* 2006; **38**: 38-46. [[Abstract in PubMed](#)]
20. **Yip SP***, To SS, Leung PH, Cheung TS, Cheng PK, Lim WW. Use of dual TaqMan probes to increase the sensitivity of one-step quantitative reverse transcription-PCR: application to the detection of SARS coronavirus. *Clin Chem* 2005; **51**: 1185-1188. [[Abstract in PubMed](#)]
21. **Yip SP***, Leung KH, Lin CK. Extent and distribution of linkage disequilibrium around the *SLC11A1* locus. *Genes Immun* 2003; **4**: 212-221. [[Abstract in PubMed](#)]

Nucleic acid-based technologies and their applications (Several papers in this category also appear again in other categories) (21 articles)

1. Qin A, Fu LT, Wong JK, Chau LY, **Yip SP**, Lee TM*. Precipitation of PEG/carboxyl-modified gold nanoparticles with magnesium pyrophosphate: A new platform for real-time monitoring of loop-mediated isothermal amplification. *ACS Appl Mater Interfaces* 2017; **9**: 10472-80. [[Abstract in PubMed](#)]
2. Chau LY, He Q, Qin A, **Yip SP**, Lee TM*. Platinum nanoparticles on reduced graphene oxide as peroxidase mimetics for the colorimetric detection of specific DNA sequence. *J Mater Chem B* 2016; **4**: 4076-83. [Featured as the front cover of the “June 21” issue of the journal.] [[Abstract in Journal's website](#)]
3. Ho DW, **Yip SP***. Whole genome amplification: Technologies and Applications. In: iConcept Press, ed. *Genomics III - Methods, Techniques and Applications*. iConcept Press, 2014. [[Full text from publisher's website](#)]
4. Wong JK, **Yip SP**, Lee TM*. Ultrasensitive and closed-tube colorimetric loop-mediated isothermal amplification assay using carboxyl-modified gold nanoparticles. *Small* 2014; **10**: 1495-9. [[Abstract in PubMed](#)]
5. Lee DC, **Yip SP**, Lee TM*. Simple and Sensitive Electrochemical DNA Detection of Primer Generation–Rolling Circle Amplification. *Electroanal* 2013; **25**: 1310-15. [[Abstract in journal website](#)]
6. Wong JK, **Yip SP**, Lee TM*. Ultra-stable oligonucleotide–gold and –silver nanoparticle conjugates prepared by a facile silica reinforcement method. *Nano Res* 2012; **5**: 585–94. [[Abstract in journal website](#)]
7. Wong JK, **Yip SP**, Lee TM*. Silica-modified oligonucleotide-gold nanoparticle conjugate enables closed-tube colorimetric polymerase chain reaction. *Small* 2012; **8**: 214-219. [[Abstract in PubMed](#)]
8. Ho DW, Yiu WC, Yap MK, Fung WY, Ng PW, **Yip SP***. Genotyping performance assessment of whole genome amplified DNA with respect to multiplexing level of assay and its period of storage. *PLoS One* 2011; **6**: e26119. [[Abstract in PubMed](#)]
9. Lo CL, **Yip SP**, Wei SJ, Levi JE, Leung PH*. A simple and economic quadruplex one-step reverse transcription-PCR assay for detecting and typing dengue viruses. *Clin Chim Acta* 2011; **412**: 2008-2010. [[Abstract in PubMed](#)]
10. Lo CL, Leung PH*, **Yip SP**, To TS, Ng TK, Kam KM. Rapid detection of pathogenic *Vibrio parahaemolyticus* by a sensitive and specific duplex PCR-hybridization probes assay using LightCycler. *J Appl Microbiol* 2008; **105**: 575–584. [[Abstract in PubMed](#)]
11. Leung KH, **Yip SP***. Single strand conformation polymorphism (SSCP) analysis. In: Rapley R, Walker JM, eds. *Molecular Biomethods Handbook*, 2nd ed. Totowa: Humana Press, 2008: 117-131. [[Abstract in publisher's website](#)]
12. Leung KH, **Yip SP***. Denaturing high-performance liquid chromatography (DHPLC) for genetic analysis. In: Rapley R, Walker JM, eds. *Molecular Biomethods Handbook*, 2nd ed. Totowa: Humana Press, 2008: 89-106. [[Abstract in publisher's website](#)]
13. Lo CL, **Yip SP**, Cheng PK, To SS, Lim WW, Leung PH*. One-step rapid reverse transcription-PCR assay for detecting and typing dengue viruses with GC tail and induced fluorescence

resonance energy transfer techniques for melting temperature and color multiplexing. *Clin Chem* 2007; **53**: 594-599. [[Abstract in PubMed](#)]

14. **Yip SP***, To SS, Leung PH, Cheung TS, Cheng PK, Lim WW. Use of dual TaqMan probes to increase the sensitivity of one-step quantitative reverse transcription-PCR: application to the detection of SARS coronavirus. *Clin Chem* 2005; **51**: 1185-1188. [[Abstract in PubMed](#)]
15. **Yip SP***, Fung LF, Lo STH. Rapid detection of Southeast Asian β -thalassaemia mutations by non-isotopic multiplex PCR-SSCP. *Genet Test* 2004; **8**: 104-108. [[Abstract in PubMed](#)]
16. Han W, **Yip SP***, Wang J, Yap MK. Using denaturing HPLC for SNP discovery and genotyping, and establishing the linkage disequilibrium pattern for the all-*trans*-retinol dehydrogenase (*RDH8*) gene. *J Hum Genet* 2004; **49**: 16-23. [[Abstract in PubMed](#)]
17. **Yip SP***, Lee SY, To SS, Wong ML. Improved real-time PCR assay for homogeneous multiplex genotyping of four *CYP2C9* alleles with hybridization probes. *Clin Chem* 2003; **49**: 2109-2111. [[Abstract in PubMed](#)]
18. **Yip SP***, Pun SF, Leung KH, Lee SY. Rapid simultaneous genotyping of five common Southeast Asian β -thalassaemia mutations by multiplex minisequencing and denaturing HPLC. *Clin Chem* 2003; **49**: 1656-1659. [[Abstract in PubMed](#)]
19. **Yip SP***. Single-tube multiplex PCR-SSCP analysis distinguishes seven common ABO alleles and readily identifies new alleles. *Blood* 2000; **95**: 1487-1492. [[Abstract in PubMed](#)]
20. **Yip SP**, Hopkinson DA, Whitehouse DB*. Improvement of SSCP analysis by use of denaturants. *BioTechniques* 1999; **27**: 20-24. [[Abstract in PubMed](#)]
21. **Yip SP***, Choy WL, Chan CW, Choi CH. The absence of a B allele in acquired B blood group phenotype confirmed by a DNA-based genotyping method. *J Clin Pathol* 1996; **49**: 180-181. [[Abstract in PubMed](#)]

Genetics of other complex diseases (disc degeneration disease, etc.) (7 articles)

1. Song YQ*, Karasugi T, Cheung KM, Chiba K, Ho DW, Miyake A, Kao PY, Sze KL, Yee A, Takahashi A, Kawaguchi Y, Mikami Y, Matsumoto M, Togawa D, Kanayama M, Shi D, Dai J, Jiang Q, Wu C, Tian W, Wang N, Leong JC, Luk KD, Yip SP, Cherny SS, Wang J, Mundlos S, Kelempisioti A, Eskola PJ, Männikkö M, Mäkelä P, Karppinen J, Järvelin MR, O'Reilly PF, Kubo M, Kimura T, Kubo T, Toyama Y, Mizuta H, Cheah KS, Tsunoda T, Sham PC, Ikegawa S*, Chan D*. Lumbar disc degeneration is linked to a carbohydrate sulfotransferase 3 variant. *J Clin Invest* 2013; **123**:4909-17. [[Abstract in PubMed](#)]
2. Ho DW, Yap MK, **Yip SP***. UPDG: Utilities package for data analysis of Pooled DNA GWAS. *BMC Genet* 2012; **13**: 1. [[Abstract in PubMed](#)]
3. Song YQ, Ho DW, Karppinen J, Kao PY, Fan BJ, Luk KD, **Yip SP**, Leong JC, Cheah KS, Sham P, Chan D, Cheung KM*. Association between promoter -1607 polymorphism of MMP1 and Lumbar Disc Disease in Southern Chinese. *BMC Med Genet* 2008; **9**:38. [[Abstract in PubMed](#)]
4. Song YQ, Cheung KM, Ho DW, Poon SC, Chiba K, Kawaguchi Y, Hirose Y, Alini M, Grad S, Yee AF, Leong JC, Luk KD, **Yip SP**, Karppinen J, Cheah KS, Sham P, Ikegawa S, Chan D*. Association of the asporin D14 allele with lumbar-disc degeneration in Asians. *Am J*

Hum Genet 2008; **82**: 744-747. [[Abstract in PubMed](#)]

5. Virtanen IM, Song YQ, Cheung KM, Ala-Kokko L, Karppinen J, Ho DW, Luk KD, **Yip SP**, Leong JC, Cheah KS, Sham P, Chan D*. Phenotypic and population differences in the association between CILP and lumbar disc disease. *J Med Genet* 2007; **44**: 285-288. [[Abstract in PubMed](#)]
6. Cheung KM, Chan D, Karppinen J, Chen Y, Jim JJ, **Yip SP**, Ott J, Wong KK, Sham P, Luk KD, Cheah KS, Leong JC, Song YQ*. Association of the Taq I allele in vitamin D receptor with degenerative disc disease and disc bulge in a Chinese population. *Spine* 2006; **31**: 1143-1148. [[Abstract in PubMed](#)]
7. Jim JJ, Nojonen-Hietala N, Cheung KM, Ott J, Karppinen J, Sahraravand A, Luk KD, **Yip SP**, Sham PC, Song YQ, Leong JC, Cheah KS, Ala-Kokko L, Chan D*. The TRP2 allele of COL9A2 is an age-dependent risk factor for the development and severity of intervertebral disc degeneration. *Spine* 2005; **30**: 2735-2742. [[Abstract in PubMed](#)]

Other categories (31 articles)

1. Lam ST*, To CH, Leung KW, **Yip SP**, Lo IFM, Tsang KP. Lessons learnt from a genetic disease registry in Hong Kong. *Hong Kong Med J* 2021; **27**: 226-8 [[Abstract in PubMed](#)]
2. Li YX, Kwong DL, Wu VW, **Yip SP**, Law HK, Lee SW, Ying MT*. Computer-assisted ultrasound assessment of plaque characteristics in radiation-induced and non-radiation-induced carotid atherosclerosis. *Quant Imaging Med Surg* 2021; **11**: 2292-306. [[Abstract in PubMed](#)]
3. Chen SG, Ugwu F, Li WC, Caplice NM, Petcu EB, **Yip SP***, Huang CL*. Vascular tissue engineering: Advanced techniques and gene editing in stem cells for graft generation. *Tissue Eng Part B Rev* 2021; **27**: 14-28. [[Abstract in PubMed](#)]
4. Song YQ*, Sham PS, **Yip SP**, Fan YH, Bao SY. DNA sequence patterns in human major histocompatibility complex region in southern Chinese. *Hong Kong Med J* 2019; **25 Suppl 7**: 13-16. [[Abstract in PubMed](#)]
5. 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, Siu PM*. Ablation of Bax and Bak protects skeletal muscle against pressure-induced injury. *Sci Rep* 2018; **8**: 3689. [[Abstract in PubMed](#)]
6. Sin TK, Tam BT, Yu AP, **Yip SP**, Yung BY, Chan LW, Wong CS, Rudd JA, Siu PM*. Acute treatment of resveratrol alleviates doxorubicin-induced myotoxicity in aged skeletal muscle through SIRT1-dependent mechanisms. *J Gerontol A Biol Sci Med Sci.* 2016; **71**: 730-9. [[Abstract in PubMed](#)]
7. Sin TK, Yung BY, **Yip SP**, Chan LW, Wong CS, Tam EW, Siu PM*. SIRT1-dependent myoprotective effects of resveratrol on muscle injury induced by compression. *Front Physiol* 2015; **6**: 293. [[Abstract in PubMed](#)]
8. Tam BT, Pei XM, Yung BY, **Yip SP**, Chan LW, Wong CS, Siu PM*. Unacylated ghrelin restores insulin and autophagic signaling in skeletal muscle of diabetic mice. *Pflugers Arch*

- 2015; **467**: 2555-69. [[Abstract in PubMed](#)]
9. Sin TK, Yu AP, Yung BY, **Yip SP**, Chan LW, Wong CS, Rudd JA, Siu PM*. Effects of long-term resveratrol-induced SIRT1 activation on insulin and apoptotic signalling in aged skeletal muscle. *Acta Diabetol* 2015; **52**: 1063-75. [[Abstract in PubMed](#)]
 10. Tam BT, Pei XM, Yu AP, Sin TK, Leung KK, Au KK, Chong JT, Yung BY, **Yip SP**, Chan LW, Wong CS, Siu PM*. Autophagic adaptation is associated with exercise-induced fibre-type shifting in skeletal muscle. *Acta Physiol (Oxf)* 2015; **214**: 221-36. [[Abstract in PubMed](#)]
 11. Sin TK, Tam BT, Yung BY, **Yip SP**, Chan LW, Wong CS, Ying M, Rudd JA, Siu PM*. Resveratrol protects against doxorubicin-induced cardiotoxicity in aged hearts through the SIRT1-USP7 axis. *J Physiol* 2015; **593**:1887-99. [[Abstract in PubMed](#)]
 12. Tam BT, Pei XM, Yung BY, **Yip SP**, Chan LW, Wong CS, Siu PM*. Autophagic adaptations to long-term habitual exercise in cardiac muscle. *Int J Sports Med* 2015; **36**: 526-34. [[Abstract in PubMed](#)]
 13. Yu AP, Pei XM, Sin TK, **Yip SP**, Yung BY, Chan LW, Wong CS, Siu PM*. [D-Lys3]-GHRP-6 exhibits pro-autophagic effects on skeletal muscle. *Mol Cell Endocrinol* 2015; **401**: 155-164. [[Abstract in PubMed](#)]
 14. Pei XM, Yung BY, **Yip SP**, Chan LW, Wong CS, Ying M, Siu PM*. Protective effects of desacyl ghrelin on diabetic cardiomyopathy. *Acta Diabetol* 2014 Sep 6. [Epub ahead of print] [[Abstract in PubMed](#)]
 15. Sun J, Ke Z, **Yip SP**, Hu X, Zheng X, Tong KY*. Gradually increased training intensity benefits rehabilitation outcome after stroke by BDNF upregulation and stress suppression. *Biomed Res Int* 2014; **2014**: 925762. [[Abstract in journal website](#)]
 16. Sin TK, Yu AP, Yung BY, **Yip SP**, Chan LW, Wong CS, Ying M, Rudd JA, Siu PM*. Modulating effect of SIRT1 activation induced by resveratrol on Foxo1-associated apoptotic signalling in senescent heart. *J Physiol* 2014; **592**: 2535-48. [[Abstract in PubMed](#)]
 17. Yu AP, Pei XM, Sin TK, **Yip SP**, Yung BY, Chan LW, Wong CS, Siu PM*. Acylated and unacylated ghrelin inhibit doxorubicin-induced apoptosis in skeletal muscle. *Acta Physiol* 2014; **211**: 201-13. [[Abstract in PubMed](#)]
 18. Pei XM, Yung BY, **Yip SP**, Ying M, Benzie IF, Siu PM*. Desacyl ghrelin prevents doxorubicin-induced myocardial fibrosis and apoptosis via the GHSR-independent pathway. *Am J Physiol Endocrinol Metab* 2014; **306**: E311-23. [[Abstract in PubMed](#)]
 19. Yu HW*, Sze DM, **Yip SP**, Cho WC, Boost MV, Zhang Z, Fan K, Ng MC, Ng JW, Yeung A, Hung HW, Chong GS, Lee RL. To study the effects of Shenqifuzheng injection (SFI) on micro-RNAs in human dendritic cells. *J Data Mining Genomics Proteomics* 2014; **5**: 1000149. [[Abstract in journal website](#)]
 20. Pang MY*, Lau RW, **Yip SP**. The effects of whole-body vibration therapy on bone turnover, muscle strength, motor function, and spasticity in chronic stroke: a randomized controlled trial. *Eur J Phys Rehabil Med* 2013; **49**: 439-50. [[Abstract in PubMed](#)]
 21. Zhang SJ, Ke Z, Li L, **Yip SP**, Tong KY*. EEG patterns from acute to chronic stroke phases in focal cerebral ischemic rats: correlations with functional recovery. *Physiol Meas* 2013; **34**: 423-35. [[Abstract in PubMed](#)]

22. Lau RW, **Yip SP**, Pang MY*. Whole-body vibration has no effect on neuromotor function and falls in chronic stroke. *Med Sci Sports Exerc* 2012; **44**: 1409-18. [[Abstract in PubMed](#)]
23. Ke Z, **Yip SP**, Li L, Zheng XX, Tong KY*. The effects of voluntary exercise, involuntary exercise, and forced exercise on brain-derived neurotrophic factor and motor function recovery: A rat brain ischemia model. *PLoS One* 2011; **6**: e16643. [[Abstract in PubMed](#)]
24. Li L, Rong W, Ke Z, Hu XL, **Yip SP**, Tong KY*. Muscle activation changes during body weight support treadmill training after focal cortical ischemia: a rat hindlimb model. *J Electromyogr Kines* 2010; **21**: 318-326. [[Abstract in PubMed](#)]
25. Chan KL, Tong KY*, **Yip SP**. Relationship of serum brain-derived neurotrophic factor (BDNF) and health related lifestyle in healthy human subjects. *Neurosci Lett* 2008; **447**: 124-128. [[Abstract in PubMed](#)]
26. Tsui WM*, Lam PW, Lee KC, Ma KF, Chan YK, Wong MW, **Yip SP**, Wong CS, Chow AS, Lo ST. C282Y mutation of the *HFE* gene is not found in Chinese haemochromatotic patients. *Hong Kong Med J* 2000; **6**: 153-158. [[Abstract in PubMed](#)]
27. **Yip SP**, Lovegrove JU, Rana NA, Hopkinson DA, Whitehouse DB*. Mapping recombination hotspots in human phosphoglucomutase (*PGMI*). *Hum Mol Genet* 1999; **8**: 1699-1706. [[Abstract in PubMed](#)]
28. **Yip SP**, Putt W, Hopkinson DA, Whitehouse DB*. Identification and characterisation of polymorphisms in human phosphoglucomutase (*PGMI*). *Ann Hum Genet* 1999; **63**: 129-140. [[Abstract in PubMed](#)]
29. **Yip SP**, Lewis WHP*. No Association found between C3 alleles and scar hypertrophy. *Burns* 1993; **19**: 297-301. [[Abstract in PubMed](#)]
30. **Yip SP***, Lewis WHP. The complement system: An overview. *J Hong Kong Med Technol Asso* 1992; **5**: 25-33.
31. **Yip SP**, Lewis WHP*. The effect of divalent metal ions on the thermostability of C3. *Immunological Investigations*. 1992; **21**: 329-332. [[Abstract in PubMed](#)]

Genetics of blood groups (7 articles)

1. **Yip SP***, Lai SK, Wong ML. Systematic sequence analysis of the human fucosyltransferase 2 (*FUT2*) gene identifies novel sequence variations and alleles. *Transfusion* 2007; **47**: 1369-1380. [[Abstract in PubMed](#)]
2. **Yip SP***, Choi PS, Lee SY, Leung KH, El-Zawahri MM, Luqmani Y. ABO blood group in Kuwaitis: detailed allele frequency distribution and identification of novel alleles. *Transfusion* 2006; **46**: 773-779. [[Abstract in PubMed](#)]
3. **Yip SP***, Chee KY, Chan PY, Chow EY, Wong HF. Molecular genetic analysis of para-Bombay phenotypes in Chinese: a novel non-functional *FUT1* allele is identified. *Vox Sang* 2002; **83**: 258-262. [[Abstract in PubMed](#)]
4. **Yip SP***. Sequence variation at the human *ABO* locus. *Ann Hum Genet* 2002; **66**: 1-27. [[Abstract in PubMed](#)]

5. **Yip SP***. Single-tube multiplex PCR-SSCP analysis distinguishes seven common ABO alleles and readily identifies new alleles. *Blood* 2000; **95**: 1487-1492. [[Abstract in PubMed](#)]
6. **Yip SP***, Choy WL, Chan CW, Choi CH. The absence of a B allele in acquired B blood group phenotype confirmed by a DNA-based genotyping method. *J Clin Pathol* 1996; **49**: 180-181. [[Abstract in PubMed](#)]
7. **Yip SP***, Yow CMN, Lewis WHP. DNA polymorphism at the ABO locus in the Chinese population of Hong Kong. *Hum Heredity* 1995; **45**: 266-271. [[Abstract in PubMed](#)]

Chien-Ling HUANG
(Assistant Professor)



[Last update: 30 September 2021]

QUALIFICATIONS: PD Fellow (CGU/Taiwan; UCC/Ireland), 2009-2015
PhD (Biomedical Sciences), Chang Gung University (CGU), 2009
MSc (Medical Biotechnology), CGU, 2004
BSc (Medical Biotechnology and Laboratory Science), CGU, 2002
Licensed Medical Technologist (Taiwan), 2002

BRIEF OUTLINE OF EXPERIENCE AND POSTS HELD:

- 2015-present **Assistant Professor**, Department of Health Technology and Informatics (HTI), The Hong Kong Polytechnic University (PolyU), Hong Kong
- 2020-present **Programme Leader** of MSc in Medical Laboratory Science, HTI, PolyU
- 2014-2015 **Senior Post-Doctoral Researcher**, Centre for Research in Vascular Biology (CRVB), University College Cork (UCC), Cork, Ireland
- 2011-2014 **Post-Doctoral Researcher**, CRVB, UCC, Cork, Ireland
- 2009-2011 **Post-Doctoral Fellow**, CGU, Tao-Yuan, Taiwan

RESEARCH INTERESTS:

Haematology & Molecular diagnostics: non-coding RNAs in blood malignancy; high-throughput sequencing (i.e. scRNA-seq and clinical WGS)

Stem cell technology & Functional genomics: stem cell differentiation and reprogramming; gene regulation in complex diseases (i.e. vascular disease and myopia)

SERVICE TO PROFESSIONAL & SCIENTIFIC BODIES, CONSULTANCY, MEMBERSHIP OF PROFESSIONAL & LEARNED SOCIETIES:

Contributions to professional service –

| Position | Journal/ International Society | Duration |
|----------|--|----------------|
| Editor | Journal of Natural Science, Biology and Medicine | 2015 – present |

| | | |
|------------------------|--|----------------|
| Associate Editor | Frontiers in Medicine/ Frontiers in Medical Technology | 2020 – present |
| Review Editor | Frontiers in Genetics | 2020 – present |
| Topic Editor | Frontiers in Medicine (Women in Science - Hematology 2021) | 2021 – present |
| Editorial Board Member | Asia-Pacific Journal of Blood Types and Genes | 2016 – 2019 |
| Member | International Society of Stem Cell Research (ISSCR) | 2018 – present |
| Member | The RNA Society | 2019 – present |

Contributions to PolyU – (since 2015 joining in PolyU)

| Position | Department/ Faculty/ University | Duration |
|---------------------------------|--|----------------|
| (Department) | | |
| Programme Leader | MSc in Medical Laboratory Science | 2020 – present |
| Departmental Enrollment Officer | BSc in Medical Laboratory Science (2015-2019) MSc in Medical Laboratory Science (2019-present) | 2015 – present |
| Subject Leader | Molecular Diagnosis of Human Disease (HTI44002) (2015-present) Haematology: Concepts & Principles (HTI34010) (2020-present) Interpretative & Practical Haematology (HTI34011) (2020-present) | 2015 – present |
| Deputy Programme Leader | BSc in Medical Laboratory Science | 2015 – 2020 |
| Elective Member | Departmental Management Committee (DMC) | 2016 – 2018 |
| (Faculty) | | |
| Visiting Lecturer | DHSc in Medical Laboratory Science (For thesis supervision and assessment) | 2018 – present |
| (University) | | |
| Member | Management Committee, Research Institute of Future Food | 2021 – present |
| Member | Committee on General University Requirements, Academic Planning and Regulations Committee | 2020 – 2021 |

AWARDS:

Funded projects and grants received –

Total number of grants: 24

I am the (co-)Principal Investigator for 17 grants (71%).

Seven grants (29%) are external grants.

Total amount of grants: HK\$80.4 million

Total amount of grants with me as the PI/co-PI: HK\$71.1 million
 Total amounts of external grants: HK\$41.1 million

External grants – as a Principal Investigator or Co-Principal Investigator

| Summary: | | | Amount in HK\$ (duration) |
|--|--|---|---|
| Total numbers of grants = 5 | | | |
| Total amounts of grants = HK\$36,073,150 | | Source | |
| 1. | The 3P (Prevention, Protection and Promotion) approach as a novel and effective strategy to prevent infection and enhance recovery in individuals with COVID-19 (Co-PI; PI: Prof. David MAN, RS) (Theme B) Development of precision prognostic and diagnostic biomarkers for the personalised treatment and monitoring of COVID-19 patients (2021, Theme B – Chief Investigator) | HMRF Commissioned Research | 28,279,650 (Theme B- 5,241,050/ 3 years) |
| 2. | Myopia mechanisms – multiomics (2020, CEVR RP1.6 – PI) | ITC & RTH-ITF (Health@InnoHK; obtained by SO) | ~5,320,000 (5 years/ project) |
| 3. | Unveiling the novel molecular mechanisms in regulating COVID-19 induced innate immune response and hypercoagulopathy (2020, PI/Chief Supervisor) | Hong Kong PhD Fellowship Scheme (RGC) | 967,500 (3 years) |
| 4. | Evaluating the diagnostic yield of using low-pass whole-genome sequencing to identify chromosome abnormalities in paediatric patients with developmental defects (2019, PI) | HMRF | 1,206,000 (3 years) |
| 5. | Regulation of smooth muscle progenitor cell-derived vascular tissues by myocardin-mediated long non-coding RNA and its implications for bio-engineering (2018, PI) | NSFC | ~300,000 (3 years) |

Internal grants – as a Principal Investigator or Co-Principal Investigator

| Summary: | | | Amount in HK\$ (duration) |
|--|---|--------------------------------------|---------------------------------|
| Total numbers of grants = 12 | | | |
| Total amounts of grants = HK\$35,021,687 | | Source | |
| 1. | Establishment of research institute for future food (2021, Co-PI; PI: Dr. WONG KH, ABCT) | Funding for Research Institute | 30,000,000 (3 years) |
| 2. | Functional role of the novel long non-coding RNA LNC000093 in modulating drug resistance and tumour microenvironment in chronic myelogenous leukaemia (2021, PI) | Fund for GRF Project Rated 3.5 | 100,000 (2 years) |
| 3. | Molecular and functional characterization of copy number | Collaborative | ~588,000 |

| | | | |
|-----|---|---|---------------------|
| | variants in high myopia (2020, PI/Chief Supervisor) | PhD Training Programme with SUSTech | (4 years) |
| 4. | Establish human pluripotent stem cell- derived bone marrow-on-a-chip for studying the molecular insights of myeloproliferative neoplasms (MPNs) (2019, PI) | Griffith U and PolyU CRG | 100,000 (2 years) |
| 5. | Long non-coding RNA-mediated signaling interactome for stem/progenitor cell-based vascular regeneration: A pilot study (2019, PI) | Fund for GRF Project Rated 3.5 | 100,000 (1.5 years) |
| 6. | Development and applications of CNV calling pipelines for bulk and single-cell whole-genome sequencing data (2019, PI/Chief Supervisor) | Collaborative PhD Training Programme with SUSTech | ~588,000 (4 years) |
| 7. | Direct photoreceptor differentiation of human mesenchymal stem cells by manipulating miRNA-lncRNA-mRNA triplet (2018, PI) | Griffith U and PolyU CRG | 120,000 (2 years) |
| 8. | Exploring the role of JAK2-mediated lncRNAs in myeloproliferative neoplasms (2017, PI) | Fund for ECS Project Rated 3.5 | 123,502 (2 years) |
| 9. | Functional characterization of H19/microRNA-675/RUNX1 axis in normal and malignant haematopoietic systems (2017, PI/Chief Supervisor) | Other External Funded Project (for PhD study) | ~213,400 (3 years) |
| 10. | Genetic regulation and biological significance of key lncRNAome in myeloproliferative neoplasms (2016, PI) | Departmental Start-Up Fund | 600,000 (3 years) |
| 11. | Exploring novel regulatory roles of long non-coding RNAs associated with myeloproliferative neoplasms (2016, PI/Chief Supervisor) | Other External Funded Project (for PhD study) | ~284,530 (4 years) |
| 12. | Live-cell functional analysis under mechanical shear flow (2015, PI) | Large Equipment Fund | 2,204,255 (2 years) |

Teaching grants – as a Principal Investigator or Co-investigator

| Summary: | | | Amount in HK\$ (duration) |
|---|--|---|---------------------------|
| Total numbers of grants = 6 | | | |
| Total amounts of grants = HK\$3,417,857 | | Source | |
| 1. | Enhancement plan on new internationalisation at home elements for subjects (2021, PI) | EDC | 110,000 (1 year) |
| 2. | Creating an inter-disciplinary and intercultural learning environment for teaching (2021, Co-I) | Special Grant for VTL by UGC (External) | 1,500,000 (2 years) |
| 3. | High-capacity pathology whole slide scanner (2021, Co-I) | Large Equipment Fund for Teaching | 1,000,000 (1 year) |

| | | | |
|----|---|--------------------------------------|----------------------|
| 4. | Developing a repository of digitised virtual slides to promote active learning in haematology diagnostics via flipped practical approach (2017, Co-PI) | Teaching Development Grant | 149,940 (2 years) |
| 5. | Internationalising the Student Learning Experience Project (2016, PI) | Teaching Development Grant | 127,157 (1 year) |
| 6. | Establishing platelet/whole blood optical lumi-aggregometer (2016, PI) | Large Equipment Fund for Teaching | 530,760 (1 year) |

Conference awards –

- 2014 ATVB Travel Award for Young Investigators, American Heart Association Scientific Sessions 2014, USA
- 2011 Young Investigator Awards of the 23rd Congress of the International Society on Thrombosis and Haemostasis (ISTH2011), Japan
- 2006 Outstanding Thesis Awards of the 14th Annual Meeting of the Chinese Society of Cell and Molecular Biology, Taiwan
- 2006 Outstanding Poster Thesis Awards of the 21st Joint Annual Conference of Biomedical Science, Taipei, Taiwan

Research publications –

| | SCI Journal Paper | Impact factor | Best ranking |
|----|---|------------------------|-------------------------|
| 1. | Wong NK, Luo S, Chow EY, Meng F, Adesanya A, Sun J, Ma HM, Jin W, Li WC, Yip SP*, Huang CL* . The tyrosine kinase-driven networks of novel long non-coding RNAs and their molecular targets in myeloproliferative neoplasms. <i>Front Cell Dev Biol.</i> 9:643043, 2021. (*Corresponding authors) [My contribution: Study design, securing funds, drafting the whole manuscript, intellectual input and critical review/revision of manuscript.] | 6.684 (2020) | 6/41 (14.6%) |
| 2. | Meng F, Siu GK, Mok BW, Sun J, Fung KS, Lam JY, Wong NK, Gedefaw L, Luo S, Lee TM, Yip SP*, Huang CL* . Viral microRNAs encoded by nucleocapsid gene of SARS-CoV-2 are detected during infection, and targeting metabolic pathways in host cells. <i>Cells.</i> 10:1762, 2021. (*Corresponding authors) [My contribution: Study design, securing funds, drafting the whole manuscript, intellectual input and critical review/revision of manuscript.] | 6.600 (2020) | 53/195 (27.2%) |
| 3. | Gedefaw L, Ullah S, Leung PHM, Cai Y, Yip SP*, Huang CL* . Inflammasome activation-induced hypercoagulopathy: Impact on cardiovascular dysfunction triggered in COVID-19 patients. <i>Cells.</i> 10:916, 2021. (*Corresponding authors) [My contribution: Study design, securing funds, drafting the whole manuscript, intellectual input and critical review/revision of manuscript.] | 6.600 (2020) | 53/195 (27.2%) |
| 4. | Chen SG, Ugwu F, Li WC, Caplice NM, Petcu EB, Yip SP*, Huang CL* . Vascular tissue engineering: Advanced techniques and gene editing in stem cells for graft generation. <i>Tissue Eng Part B Rev.</i> 27:14-28, 2021. (*Corresponding authors) [My contribution: Study design, securing funds, drafting the whole manuscript, | 6.389 (2020) | 15/90 (16.7%) |

- intellectual input and critical review/revision of manuscript.]
5. Hsieh YT, Tu HF, Yang MH, Chen YF, Lan XY, **Huang CL**, Chen HM, Li WC. **8.469** 37/195
(2020) **(19.0%)**
Mitochondrial Genome and Its Regulator TFAM Modulates Head and Neck Tumorigenesis through Intracellular Metabolic Reprogramming and Activation of Oncogenic Effectors. *Cell Death Dis.* 2021. (Accepted for publication)
[My contribution: Intellectual input and critical review/revision of manuscript.]
 6. Lan XY, Chung TT, **Huang CL**, Lee YJ, Li WC. Traditional herbal medicine mediated regulations during head and neck carcinogenesis. **4.879** 96/298
(2020) (32.2%)
Biomolecules. 10:1321, 2020.
[My contribution: Intellectual input and critical review/revision of manuscript.]
 7. Li WC, Huang CH, Hsieh YT, Chen TY, Cheng LH, Chen CY, Liu CJ, Chen HM, **Huang CL**, Lo JF, Chang KW. Regulatory role of hexokinase 2 in modulating head and neck tumorigenesis. **6.244** 62/242
(2020) (25.6%)
Front Oncol. 10:176, 2020.
[My contribution: Study design, intellectual input and critical review/revision of manuscript.]
 8. Leung KH, Luo S, Kwarteng R, Chen SG, Yap MKH, **Huang CL***, Yip SP*. **4.379** 17/73
(2020) **(23.3%)**
The myopia susceptibility locus vasoactive intestinal peptide receptor 2 (VIPR2) contains variants with opposite effects. *Sci Rep.* 9:18165, 2019.
(*Corresponding authors)
[My contribution: Study design, securing funds, intellectual input, and critical review/revision of manuscript.]
 9. Wong NK, **Huang CL***, Islam R, Yip SP*. Long non-coding RNAs in hematological malignancies: Translating basic techniques into diagnostic and therapeutic strategies. **17.388** 3/76
(2020) **(3.9%)**
J Hematol Oncol. 11:131, 2018.
(*Corresponding authors)
[My contribution: Study design, securing funds, intellectual input, drafting the whole manuscript, and critical review/revision of manuscript.]
 10. Yau MY, Lu X, **Huang CL**, Wong CM. Long non-coding RNAs in obesity-induced cancer. *Non-Coding RNA* 4(3), 2018. [*New SCI Journal*]
[My contribution: Intellectual input and critical review of manuscript.]
 11. Turner EC[#], **Huang CL**[#], Sawhney N, Govindarajan K, Clover AJ, Martin K, Browne TC, Whelan D, Kumar AH, Mackrill JJ, Wang S, Schmeckpeper J, Stocca A, Pierce WG, Leblond AL, Cai L, O'Sullivan DM, Buneker CK, Choi J, MacSharry J, Ikeda Y, Russell SJ, Caplice NM. A novel selectable Islet 1 positive progenitor cell reprogrammed to expandable and functional smooth muscle cells. **6.277** 19/159
(2020) **(11.9%)**
Stem Cells 34:1354-68, 2016. **(#Co-first authors)**
[My contribution: Study design, perform experiments, intellectual input, drafting the whole manuscript, critical review/revision of manuscript.]
 12. **Huang CL**, Leblond AL, Turner EC, Kumar AH, Martin K, Whelan D, O'Sullivan DM, Caplice NM. Synthetic chemically modified mRNA-based delivery of cytoprotective factor promotes early cardiomyocyte survival post-acute myocardial infarction. **4.939** 68/275
(2020) **(24.7%)**
Mol Pharm. 12:991-6, 2015.
[My contribution: Study design, perform experiments, intellectual input, drafting the whole manuscript, and critical review/revision of manuscript.]

13. Ali MT, Martin K, Kumar AH, Cavallin E, Pierrou S, Gleeson BM, McPheat WL, Turner EC, **Huang CL**, Khider W, Vaughan C, Caplice NM. A novel CX3CR1 antagonist eluting stent reduces stenosis by targeting inflammation. *Biomaterials* 69:22-9, 2015. **12.479** 3/90 (2020) **(3.3%)**
[My contribution: Study design, perform experiments, intellectual input and critical review/revision of manuscript.]
14. Tsai HJ[#], **Huang CL**[#], Huang DY, Lin CC, Cooper JA, Cheng JC, and Tseng C-P. Disabled-2 is required for efficient haemostasis and platelet activation by thrombin in mouse. *Arterioscler Thromb Vasc Biol.* 34:2404-12, 2014. (**#Co-first authors**) **8.311** 5/65 (2020) **(7.7%)**
[My contribution: Study design, perform experiments, intellectual input, draft and critical review/revision of manuscript.]
15. Kumar AH, Martin K, Doyle B, **Huang CL**, Krishnan G, Ali MT, Skelding KA, Wang S, Gleeson BM, Jahangeer S, Ritman EL, Russell SJ, Caplice NM. Intravascular cell-delivery device for therapeutic VEGF-induced angiogenesis in chronic vascular occlusion. *Biomaterials* 35:9012-22, 2014. **12.479** 3/90 (2020) **(3.3%)**
[My contribution: Study design, perform experiments, intellectual input and critical review/revision of manuscript.]
16. Martin K, **Huang CL**, Caplice NM. Regenerative approaches to post-myocardial infarction heart failure. *Curr Pharm Des.* 20:1930-40, 2014. **3.116** 158/275 (2020) **(57.5%)**
[My contribution: Study design, intellectual input, draft and critical review/revision of manuscript.]
17. Turner EC, **Huang CL**, Govindarajan K, Caplice NM. Identification of a Klf4-dependent upstream repressor region mediating transcriptional regulation of the myocardin gene in human smooth muscle cells. *Biochim Biophys Acta. - Gene Regulatory Mechanisms* 1829:1191-201, 2013. **4.490** 16/72 (2020) **(22.2%)**
[My contribution: Study design, perform experiments, intellectual input and critical review/revision of manuscript.]
18. Hung WS*, **Huang CL***, Fan JT*, Huang DY, Yeh CF, Cheng JC, Tseng C-P. The endocytic adaptor protein Disabled-2 is required for cellular uptake of fibrinogen. *Biochim Biophys Acta. – Molecular Cell Research* 1823:1778-88, 2012. (***Co-first authors**) **4.739** 101/298 (2020) **(33.9%)**
[My contribution: Study design, perform experiments, intellectual input, draft and critical review/revision of manuscript.]
19. **Huang CL**, Cheng JC, Kitajima K, Nakano T, Yeh CF, Chong KY, Tseng C-P. Disabled-2 is required for mesoderm differentiation of murine embryonic stem cells. *J Cell Physiol.* 225:92-105, 2010. **6.384** 7/81 (2020) **(8.6%)**
[My contribution: Study design, perform experiments, intellectual input, draft and critical review/revision of manuscript.]
20. Tseng WL, **Huang CL**, Chong KY, Liao CH, Stern A, Cheng JC, Tseng C-P. Reelin is a platelet protein and functions as a positive regulator of platelet spreading on fibrinogen. *Cell Mol Life Sci.* 67:641-53, 2010. **9.261** 30/298 (2020) **(10.1%)**
[My contribution: Study design, perform experiments, intellectual input, draft and critical review/revision of manuscript.]
21. **Huang CL**, Cheng JC, Stern A, Hsieh JT, Liao CH, Tseng C-P. Disabled-2 is a novel integrin α IIb-binding protein that negatively regulates platelet-fibrinogen interactions and platelet aggregation. *J Cell Sci.* 119:4420-30, 2006. **5.285** 74/195 (2020) **(37.9%)**
[My contribution: Study design, perform experiments, intellectual input, draft and critical

review/revision of manuscript.]

22. Cheng JC, **Huang CL**, Lin CC, Chen CC, Chang YC, Chang SS, and Tseng C-P. Rapid detection and identification of clinically important bacteria by high-resolution melting analysis after broad-range ribosomal RNA real-time PCR. *Clin Chem.* 52:1997-2004, 2006. **8.327** 1/29
(2020) **(3.4%)**
- [My contribution: Study design, perform experiments, intellectual input, draft and critical review/revision of manuscript.]
23. Zhou J, Hernandez G, Tu SW, **Huang CL**, Tseng C-P, and Hsieh JT. The role of DOC-2/DAB2 in modulating androgen receptor-mediated cell growth via the nongenomic c-Src-mediated pathway in normal prostatic epithelium and cancer. *Cancer Res.* 65:9906-13, 2005. **12.701** 17/242
(2020) **(7.0%)**
- [My contribution: Perform experiments, intellectual input and critical review/revision of manuscript.]
24. Tseng C-P, Chang P, **Huang CL**, Cheng JC, and Chang SS. Autocrine signaling of platelet-derived growth factor regulates disabled-2 expression during megakaryocytic differentiation of K562 cells. *FEBS Letters* 579:4395-401, 2005. **4.124** 17/72
(2020) **(23.6%)**
- [My contribution: Study design, perform experiments, intellectual input and critical review/revision of manuscript.]
25. Tseng C-P, **Huang CL**, Chong KY, Hung IJ, and Chiu DT. Rapid detection of glucose-6-phosphate dehydrogenase gene mutations by denaturing high-performance liquid chromatography. *Clin Biochem.* 38:973-80, 2005. **3.281** 13/29
(2020) **(44.8%)**
- [My contribution: Perform experiments, intellectual input and critical review/revision of manuscript.]
26. **Huang CL**, Cheng JC, Liao CH, Stern A, Hsieh JT, Wang CH, Hsu HL, and Tseng C-P. Disabled-2 is a negative regulator of integrin α IIb β 3-mediated fibrinogen adhesion and cell signaling. *J Biol Chem.* 279:42279-89, 2004. **5.157** 86/298
(2020) **(28.9%)**
- [My contribution: Study design, perform experiments, intellectual input, draft and critical review/revision of manuscript.]
27. Tseng C-P, **Huang CL**, Huang CH, Stern A, Cheng JC, Tseng CH, and Chiu DT. Disabled-2 small interfering RNA modulates cellular adhesive function and MAPK activity during megakaryocytic differentiation of K562 cells. *FEBS Letters* 541:21-7, 2003. **4.124** 17/72
(2020) **(23.6%)**
- [My contribution: Study design, perform experiments, intellectual input and critical review/revision of manuscript.]

Abstracts (refereed conferences)

1. Wong N, Meng F, Adesanya AE, Yip SP, **Huang CL***. The Novel H19/miR-675-5p/LNC000093-Mediated Non-Coding RNA Pathway Regulates Treatment Response in BCR-ABL1-Positive CML Cells. *FASEB Journal* 2021.
2. Yip SP, Leung KH, Luo S, Kwarteng R, Chen S, Yap KH, **Huang CL**. The vasoactive intestinal peptide receptor 2 (VIPR2) gene, a myopia susceptibility locus, contains variants showing opposite effects. *Genetics Society of Australasia Conference* 2019.
3. **Huang CL**, Leblond AL, Turner EC, Kumar AHS, Martin K, Whelan D, O'Sullivan DM, Caplice NM. Synthetic modified RNA driven delivery of insulin-like growth factor-1 promotes early cardiomyocytes survival post-acute myocardial infarction. *Circulation* 2014.

Award: Young Investigator Travel Awards from AHA to CLH.

4. Turner EC, **Huang CL**, Sawhney N, Govindarajan K, Kumar AHS, Clover JP, Martin K, Leblond AL, Wang S, and Caplice NM. Identification of a novel adult smooth muscle-like stem/progenitor cell that facilitates formation of tissue engineered vascular tissue for use as vascular grafts in vivo. *Circ Res*. 2013.

Award: Young Investigator Travel Awards from AHA to ECT.

5. Tsai HJ, **Huang CL**, Huang DY, Lin CC, Cooper JA, Cheng JC, and Tseng C-P. Disabled-2 is required for efficient platelet activation by thrombin in mouse. *J Thromb Haemost*. 2013.

Award: Travel Grants/Awards from ISTH to HJT.

6. **Huang CL**, Tsai HJ, Lin CC, Chang YW, Cooper JA, Cheng JC, and Tseng C-P. *In vivo* role of Disabled-2 (DAB2) in haemostasis and platelet function: studies using a megakaryocyte lineage-restricted DAB2 knockout. *J Thromb Haemost*. 2011.

Award: Young Investigator Awards from ISTH to CLH.

7. **Huang CL**, Cheng JC, Liu SY, Tseng C-P. Identification of a novel tumor necrosis factor receptor-associated factor 6-binding partner that is a potential lysine-63 linked ubiquitination substrate. *Proceedings of the 101th Annual Meeting of the American Association for Cancer Research (AACR)*. 2010.

Award: Travel Grants/Awards to CLH- National Science Council (NSC-99-2914-I-182-003-A1).

8. **Huang CL**, Cheng JC, Lin CC, and Tseng C-P. Disabled-2 is a key regulator during mesodermal differentiation and megakaryopoiesis of murine embryonic stem cells. *J Thromb Haemost*. 2009.

Award: Travel Grants/Awards to CLH- Foundation for the advancement of outstanding scholarship; The Chinese Society of Cell and Molecular Biology.

9. **Huang CL**, Cheng JC, and Tseng C-P. Platelet protein Disabled-2 is required for embryonic stem cell-derived mesoderm formation and megakaryocytic differentiation. *J Thromb Haemost*. 2007.

Award: Travel Grants/Awards to CLH- National Science Council (NSC-96-2922-I-182-005); The Chinese Society of Cell and Molecular Biology.

10. Tseng C-P, **Huang CL**, Cheng JC, Liao CH. Disabled-2 is a secreted anti-adhesive molecule during platelet activation and aggregation. *J Thromb Haemost*. 2005.

Award: Travel Grants/Awards from ISTH to CPT.

Postgraduate students supervised –

PhD students

(Chief supervisor)

WONG Nonthaphat (2016-2021) (Thesis Submitted; Oral Exam Scheduled)

Project Title: *Exploring Novel Regulatory Roles of Long Non-Coding RNAs Associated with Myeloproliferative Neoplasms*

ADESANYA Adenike (2017-present)

Project Title: *Functional Characterization of H19/MicroRNA-675/RUNX1 Axis in Normal and Malignant Haematopoietic Systems*

SUN Jiahong (2019-present)

Project Title: *Development and Applications of CNV Calling Pipelines for Bulk and Single-cell Whole-Genome Sequencing Data*

BIMEREW Lealem (2020-present) (Hong Kong PhD Fellowship)

Project Title: *Unveiling the Novel Molecular Mechanisms in Regulating COVID-19 Induced Innate Immune Response and Hypercoagulopathy*

ZHANG Shijing (2020-present)

Project Title: *Molecular and Functional Characterization of Copy Number Variants in High Myopia*

JIANG Zhiwei (2021-present)

(Co-supervisor)

AU Man Ting (2015-2020) (PhD Awarded)

Thesis Title: *Endothelin Receptor Subtypes in Cartilage Homeostasis and Disease*

MARUF Abdullah (2016-present) (Thesis Submitted)

Project Title: *Association Study and Functional Characterization of Germline Polymorphisms in Myeloproliferative Neoplasms*

KWARTENG Regina (2016-present) (Thesis Submitted)

Project Title: *Association and Functional Studies for Genetic Variants of Refractive errors and Myopia*

TEREFE Petros (2018-present)

Project Title: *High-Throughput Functional Dissection of Single Nucleotide Polymorphisms Associated with Philadelphia Chromosome-Negative Myeloproliferative Neoplasms*

MORILLA Lordjie (2020-present)

Project Title: *Study of Putative Causal Variants Associated with Refractive Error by Chromatin Accessibility and Regulatory Networks*

DHSc student

LIN Wing Keung (2018-present)

Project Title: *Identifying JAK2-V617F-Mediated Long Non-Coding RNAs as New Molecular Targets for Myeloproliferative Neoplasms*

Master students

(Completed with Dissertation Thesis; 9 credits)

CHEUNG Irene (2015-2017)

Thesis Title: *Development of a Novel Single-tube Molecular Assay for the Detection of JAK2, MPL and CALR Mutations in Myeloproliferative Neoplasm*

TAI Wing Yan (2016-2017)

Thesis Title: *Analysis of Long Non-coding RNA Expression Profiles in Myeloproliferative Neoplasms as Potential Biomarkers for Diagnosis and Treatment Management*

LIU Ka Na (2016-2017)

Thesis Title: *To Identify Major SNPs of Long non-coding RNA HOTAIR Contributing to*

Myeloproliferative Neoplasms in Hong Kong Chinese Population

CHAN Edward (2016-2017)

Thesis Title: *Investigating the Effects of TGF- β 1 on Regulating Mesenchymal Stem Cell Differentiation and Immune Response*

CHAN Harold (2017-2018)

Thesis Title: *The Roles and Regulatory Features of LncRNA-H19 on Smooth Muscle Cell Differentiation from Human Mesenchymal Stem Cell*

MA Man Hin (2018-2019)

Thesis Title: *The Development and Evaluation of Molecular Techniques for the Monitoring of Minimal Residual Disease in Chronic Myelogenous Leukaemia*

TSE Hing Fung (2018-2019)

Thesis Title: *Association of Single-nucleotide Polymorphism in the SH2B3 Gene with JAK2 V617F-Positive Myeloproliferative Neoplasms*

LEE Nga Lam (2019-2020)

Thesis Title: *The Use of Capture-based Enrichment for Sequencing BCR-ABL1 Breakpoint Region in Chronic Myeloid Leukaemia*

YEUNG Ka Wa (2019-2020)

Thesis Title: *Expression and Function of a Novel Long Non-coding RNA Identified in Chronic Myeloid Leukemia: Potential Biomarker and Mechanism*

CHIU Wai Nam (2019-2020)

Thesis Title: *The Regulation of Long non-coding RNAs and Toll-like Receptor-4 Signaling in Human Mesenchymal Stem Cell*

WAN Po Ting (2019-2021)

Thesis Title: *Functional Study of Associated Variants of TERT Gene Identified in Myeloproliferative Neoplasm Using Dual Luciferase Reporter Assay*

HE Ling Yu (2019-2021)

Thesis Title: *Expression Profiling of Thrombotic Related Cytokines and Long Non-Coding RNA H19 in PBMC and Lung Cells after the Activation of SARS-CoV-2*

Research Supervision

Current supervision as chief supervisor: 6 PhD, 1 DHSc (Dissertation), 6 MSc (Dissertation)

Graduated: 1 PhD (co-supervisor), 12 MSc (chief supervisor; with thesis)