

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:

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, Sahebajada 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 TGFβ2 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. [\[Abstract in PubMed\]](#)
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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. [\[Abstract in PubMed\]](#)
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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](#)]
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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](#)]
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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](#)]
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resonance energy transfer techniques for melting temperature and color multiplexing. *Clin Chem* 2007; **53**: 594-599. [[Abstract in PubMed](#)]

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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](#)]
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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](#)]
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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](#)]
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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](#)]
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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](#)]
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