Vincent, Wing-cheung WU
(Associate Professor)

QUALIFICATIONS:

PhD (HKU) 2004 Clinical Oncology
MPhil (HKU) 1998 Clinical Oncology
Teacher Diploma (College of Radiographers, UK) 1991
Further & Adult Education Teacher Certificate (City & Guilds, London, UK) 1991
Higher Diploma (Therapy) (College of Radiographers, UK) 1990
Diploma (Therapy) (College of Radiographers, UK) 1982

BRIEF OUTLINE OF EXPERIENCE AND POSTS HELD:

2015 - present	Associate Head, Department of Health Technology and Informatics, PolyU
2012 - present	Associate Professor and Clinical Coordinator (RT), Department of Health Technology and Informatics, PolyU
2005 – 2012	Assistant Professor and Clinical Coordinator, Department of Health Technology and Informatics, PolyU
1994 – 2005	Assistant Professor, Department of Optometry and Radiography, PolyU
1992 - 1994	Lecturer, Department of Optometry and Radiography, Hong Kong PolyU

AWARD:
Multi-departmental Participation Award (merit) in the Outstanding Professional Services and Innovations Award 2008 for Professional Development of Programmes on Learning and Teaching Strategies for Medical Physics by PTec, Hong Kong Polytechnic University

RESEARCH INTERESTS:
Treatment planning and dosimetry in radiotherapy, image guided radiotherapy, immobilization and verification in radiotherapy, post-radiotherapy complications.

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

- Member, Hong Kong Radiographers Board (2003-2009)
- Member, Examination Committee of Hong Kong Radiographers Board
- Member, Education Committee of Hong Kong Radiographers Board
- Member, CPD Assessment Sub-committee of Hong Kong Radiographers Board
- Vice-chairman, Association of Radiation Therapists, Hong Kong
- Associate Editor, Journal of Medical Imaging and Radiation Sciences

- Vice President, Hong Kong College of Radiographers and Radiation Therapists
- Honorary Professor, Shantou University, Shantou, China
- External Peer Reviewer, The Radiographer
- External Peer Reviewer, Journal of Radiotherapy in Practice
- Honorary Consultant, Department of Oncology, Princess Margaret Hospital, Hong Kong
- Honorary Associate Professor, Department of Clinical Oncology, University of Hong Kong
- Member, American Society for Therapeutic and Oncology
- Member, European Society for Therapeutic Radiology and Oncology
- Member, Hong Kong Radiographers Association
- Member, Scientific Committee, 13th ISRRT International Conference (2004)
- Member, Scientific Committee, Hong Kong Radiographers & Radiation Therapists Conference (2013)
- Member of International Advisory Panel of Journal of Medical Radiation Science, Australia
- Honorary Senior Radiation Therapist, Department of Clinical Oncology, New Territories East Cluster
- Member, Organisation Committee, Joint Hong Kong Radiography and Radiation Therapy Conference 2015
- Member of Kong Kong Radiographers Board Accreditation Panel for BSc (RT) programme in Tung Wah College
- Member of Radiological Protection Advisory Group, Department of Health, Hong Kong
- Member of Scientific Committee, Asia-Australasia Conference of Radiological Technologists, 2017
- Member of Scientific Committee, Hong Kong Radiographers & Radiation Therapists Conference, 2019

REPRESENTATIVE PUBLICATIONS:
*Asterisk denotes corresponding author

Journal Papers:

1) Tam SY, **Wu VWC.** A review on the special radiotherapy techniques of colorectal cancer. Frontiers in Oncology. Apr 2019. Doi: 10.3389/fonc.2019.00208. In press.

2) Li Athena KL, **Wu VWC***. Dosimetric impact of bladder volume variation in radiotherapy for prostate cancer – a pilot study. Journal of Cancer Science & Therapy. 2018 Sep Vol 10(7): 173-177. doi: 10.4172/1948-5956.1000222

3) Lin ZX, **Wu VWC***, Yang ZN, He BH, Wang DD, Gao XY, Tam SY. Pattern of radiation-induced thyroid gland changes in nasopharyngeal carcinoma patients in first four years after radiotherapy. PLOS ONE. In press. (https://doi.org/10.1371/journal.pone.0200310)

4) Li CH, **Wu VWC**, Chiu G. A dosimetric evaluation on applying RTOG-based and CT/MRI-based delineation methods to brachial plexus in radiotherapy of nasopharyngeal carcinoma treated with helical tomotherapy. British Journal of Radiology. In press. May 2018. (doi: 10.1259/bjr.20170881) (IF = 2.050)

5) Luo R, **Wu VWC**, Gao XY, Xu Z, Lin ZX. Development of a normal tissue complication probability (NTCP) modal for radiation-induced hypothyroidism in nasopharyngeal carcinoma patients. BMC Cancer. In press. May 2018. (doi: 10.1186/s12885-018-4348-z) (IF = 3.288)

6) Zhang YT, Liu XZ, Lin CG, Lee SWY, Tam SY, **Wu VWC***. Pattern of geometric changes of parotid glands in conventional and intensity modulated radiotherapy in nasopharyngeal cancer patients. J Radio Practice. 2018 Vol 17 :274-278.

7) **Wu VWC***, Ho YY, Tang YS, Lam PW, Yeung HK, Lee SWY. Comparison of the verification performance and radiation dose between ExacTrac x-ray system and On-Board Imager – A phantom study. Medical Dosimetry. In press. Jan 2018. (doi: 10.1016/j.meddos.2017) (IF = 0.957)

8) **Wu VWC***, Ying MTC, Kwong DLW. A study on the post-radiotherapy changes of temporomandibular joint in nasopharyngeal carcinoma patients. British Journal of Radiology. 2017 Dec (doi: 10.1259/bjr.20170375) (IF = 2.050)

9) Zhang YT, Lin CG, Wu JH, Jiang XB, Lee SWY, Tam SY, **Wu VWC***. A longitudinal evaluation of early anatomical changes of parotid gland in intensity modulated radiotherapy of nasopharyngeal carcinoma patients with parapharyngeal space involvement. Journal of Medical Radiation Sciences. 2017 Sep Vol 64:188-194

10) Yuan C, **Wu VWC**, Yip SP, Kwong DLW, Ying M. Ultrasound evaluation of carotid atherosclerosis in post radiotherapy nasopharyngeal carcinoma patients, type 2 diabetes and healthy controls. Ultraschall in Med. 2017;38:190-197. (doi: 10.1055/s-0034-1399293) (IF = 3.892

11) Liu SF, **Wu VWC**, Harris B, Lehman M, Pryor D, Chan LWC. Vector-model-support approach in prostate plan optimization. Medical Dosimetry. 2017 Vol 42(2):79-84. (IF = 0.957)

12) Tam Shing-yau, **Wu VWC**, Law HKW. Influence of autophagy on the efficacy of radiotherapy. Radiation Oncology. 2017 12:57 (DOI 10.1186/s13014-017-0795-y) (IF = 2.799)

13) Liu SF, **Wu VWC**, Harris B, Foote M, Lehman M, Chan LWC. A pilot study on the vector-model-supported optimization in volumetric modulated arc stereotactic radiotherapy planning for brain metastasis. Medical Dosimetry. 2017 Vol 42(2):85-89. (IF = 0.957)

14) **Wu VWC***, Leung WS, Wong KL, Chan YK, Law WL, Leung WK, Yu YL. The impact of positron emission tomography on primary tumour delineation and dosimetric outcome in intensity modulated radiotherapy of early T-stage nasopharyngeal carcinoma. Radiation Oncology. 2016 Aug 24;11(1):109. doi: 10.1186/s13014-016-0685-8. (IF = 2.799)

15) Lin CG, Xu SK, Yao WY, Wu YQ, Fang JJ, **VWC WU***. Comparison of set-up accuracy among three common immobilisation systems for intensity modulated radiotherapy of nasopharyngeal carcinoma patients. Journal of Medical Radiation Sciences. 2016 Sep 1. doi: 10.1002/jmrs.189.

16) Wei X, Lin Z, Zhang W, Li M, **Wu VWC***. A split-parotid delineation approach for dose optimization in volumetric modulated arc therapy for nasopharyngeal carcinoma patients with parapharyngeal space invasion and level IIa cervical lymph node involvements. British Journal of Radiology. 2016 Apr;89(1060):20150635. (IF = 2.050)

17) **Wu VWC***, Lam YN. Radiation induced temporomandibular joint disorder in post-radiotherapy nasopharyngeal carcinoma patients: imaging assessment and treatment. Journal of Medical Radiation Science. 2016 Vol 63(2):124-132.

18) Zhang J, **Wu VW***, Lu J, Hong D, Lin Z. Dosimetric verification of stereotactic body radiation therapy for lung cancer treatment plans using flattening filter-free beams. Tumori. 2015 Nov 14;101(6):631-6. (IF = 1.233)

19) **Wu VWC***, Ying MTC, Tam SY, Kwong DLW. A study of the factors affecting radiation-induced temporomandibular joint changes in post-radiotherapy nasopharyngeal carcinoma patients. Journal of Radiation Oncology. 2016, 5(1): 41-46.

20) Yuan C, Yip SP, **Wu VWC**, Kwong DLW, Ying MTC. Association between genetic polymorphisms and carotid atherosclerosis in patients treated with nasopharyngeal carcinoma. Journal of Radiation Oncology. 2015 Feb 13;10(1):39. doi: 10.1186/s13014-015-0341-8. (IF = 2.799)

21) **Wu VWC***, Choi BK, Chan HM, Lam R, Wong YK, Mui AWL, Chiu G. Is linac-based volumetric modulated arc therapy better than helical tomotherapy in the radiotherapy of nasopharyngeal carcinoma? Journal of Radiation Oncology. 2015 Vol 4(1):29-35

22) Yuan C, **Wu VWC,** Yip SP, Kwong DLW, Ying MTC. Predictors of the extent of carotid atherosclerosis in patients treated with radiotherapy for nasopharyngeal carcinoma. PLOS1. 2014 Dec 31;9(12):e116284. doi: 10.1371/journal. (IF = 3.54)

23) Zhang WZ, Lin ZX, Yang ZN, Fang WS, Lai PB, Lu JY, **Wu VWC***. Evaluation of the dosimetric impact of applying flattening filter free beams in intensity modulated radiotherapy for early stage upper thoracic carcinoma of esophagus. Journal of Medical Radiation Science 2014 Vol 62: 108-113

24) Cheuk IWY, **WU VWC***. Genetic association on radiation induced mucosal and skin toxicity in patients with nasopharyngeal carcinoma. Journal of Nasopharyngeal Carcinoma. 2014 DOI:10.15383/jnpc.7

25) YT Zhang, **Wu VWC (YX HU)**, JH Wu. Radiotherapy and medical services in Hong Kong. China Cancer. 2014 Vol 23(5):359-362 (doi:10.11735/j. ISSN:1004-0242)

26) Cheuk WY, Yip SP, Kwong DLW, **WU VWC*.** A study on the association of XRCC1 and XRCC3 haplotypes and the development of radiation-induced fibrosis in nasopharyngeal carcinoma patients. Journal of Molecular and Clinical Oncology (Spandidos Publications). 2014 Vol2:553-558

27) **WU VWC*,** Pun MI, Kam CP, Mok TW, Mok WW. Volumetric modulated arc radiotherapy for early stage non-small-cell lung carcinoma – is it better than the conventional static beam intensity modulated radiotherapy? Journal of Radiotherapy. Vol 2014, doi:10.1155/2014/164165

28) Cheng KF, **Wu VWC**. Comparison of the effectiveness of different immobilisation system in different body regions using daily megavoltage computed tomography in helical tomotherapy. British Journal of Radiology. 2014 87(1034):20130494. (IF = 2.050)

29) Fung WWK, **WU VWC**, Teo PML. Developing an adaptive radiation therapy strategy for nasopharyngeal carcinoma. Journal of Radiation Research. 2014 Vol 55:293-304. (IF = 1.691)

30) Lin ZX, Wang XY, Xie WJ, Yang ZN, Che KJ, **Wu VWC***. Evaluation of clinical hypothyroidism risk due to irradiation of thyroid and pituitary glands in radiotherapy of nasopharyngeal cancer patients. Journal of Medical Imaging and Radiation Oncology. 2013 Vol 57(6):713-718. (IF = 1.109)

31) Lin ZX, Chen LX, Fang YS, Cai AQ, Zhang TD, **Wu VWC***. A longitudinal study on the correlations of thyroid antibody and thyroid hormone levels in post-radiotherapy nasopharyngeal carcinoma patients with radiation induced hypothyroidism. *Head and Neck Journal*. 2014 Vol 36:171-175. (IF = 3.376)

32) **Wu VWC***, Tam KW, Tong SM. Evaluation of the influence of tumour location and size on the difference of dose calculation between ray-tracing algorithm and Monte Carlo algorithm in stereotactic body radiotherapy of non-small cell lung cancer using Cyberknife. Journal of Applied Clinical Medical Physics. 2013 Vol 14(5):68-78. (IF = 1.338)

33) Cheng CH, Ying MTC, Kwong DLW, **Wu VWC.** Sonographic appearance of submandibular glands in patients treated with external beam radiotherapy for nasopharyngeal carcinoma. *Journal of Clinical Ultrasound*. 2013, Vol 41(8):472-8. (IF = 1.35)

34) Tian FY, Yip SP, Kwong DLW, Lin ZX, Yang ZN, **Wu VWC***. Promoter Hypermethylation of Tumor Suppressor Genes in Serum as Potential Biomarker for the Diagnosis of Nasopharyngeal Carcinoma" Cancer Epidemiology. Vol 37:708-713. (IF = 2.711)

35) **Wu VWC***, Tse TKH, Ho CLM, Yeung ECY. A comparison between anisotropic and multigrid superposition dose calculation algorithms in radiotherapy treatment planning. Medical Dosimetry. 2013. Vol 38:209-214. (IF = 0.957)

36) **Wu VWC***, Tang FH, WK Cheung, KC Chan. Development of a prototype of the tele-localisation system in radiotherapy using personal digital assistant via wireless communication. *Journal of Medical Imaging and Radiation Oncology*. 2013;57:113-8. (IF = 1.109)

37) Cheng HCY, **Wu VWC**, Ngan RKC, Tang KW, Chan CCL, Wong KH, Au SK, Kwong DLW. A prospective study on volumetric and dosimetric changes during intensity-modulated radiotherapy for nasopharyngeal carcinoma patients. *Radiotherapy & Oncology*, 2012.Vol 104:317-323. (IF = 4.328)

38) Fung WK, **Wu VWC**. Optimum adaptive radiation therapy strategy for nasopharyngeal carcinoma. *Radiotherapy & Oncology*, 2012. Vol 103(S1): 140.

39) **Wu VWC*,** Lin ZX, Yang ZN, Zhang WZ, Wu LL. Effect of beam arrangement on oral cavity dose in external beam radiotherapy of nasopharyngeal carcinoma. *Medical Dosimetry* 2012 Vol 37(2):122-126. (IF = 0.957)

40) Fung WWK, **Wu VWC,** Teo PML. Dosimetric evaluation of a three-phrase adaptive radiotherapy for nasopharyngeal carcinoma using helical tomotherapy. *Medical Dosimetry* 2011. Vol 37:92-97. (IF = 0.957)

41) Cheng SCH, **Wu VWC**, Kwong, DLW, Ying MTC. Sonographic appearance of parotid glands in patients treated with intensity-modulated radiotherapy or conventional radiotherapy for nasopharyngeal carcinoma. *Ultrasound in Medicine and Biology* 2011. Vol 37(2):220-230. (IF = 2.494)

42) Lin ZX, **Wu VWC***, Lin J, Feng HT, Chen, LH. A longitudinal study on the radiation induced thyroid gland changes after external beam radiotherapy of nasopharyngeal carcinoma. *Thyroid.* 2011. Vol 21(1):19-23. (IF = 5.515)

43) Cheng SCH, **Wu VWC**, Kwong, DLW, Ying MTC. Assessment of post-radiotherapy salivary gland. *British Journal of Radiology*, 2011.Vol 84:393-402. (IF = 2.050)

44) Lin ZX, **Wu VWC***, JU WC, Yamada Y, Chen LH. Radiation induced changes in peripheral nerve by stereotactic radiosurgery – a study on sciatic nerve of rabbit. *J. of Neuro-oncology*. 2011. Vol 102:179-185. (IF = 2.980)

45) Cheng HCY, **Wu VWC,** Liu ESF, Kwong DLW. Evaluation of radiation dose and image quality for the Varian cone beam computed tomography system. *Int. J Radiat Oncol Biol Phys.* 2011, Vol 80(1):291-300. (IF = 5.133)

46) Kung SWS, **Wu VWC*,** Kam MKM, Leung SF, Yu BKH, Ngar DYK, Wong SCF, Chan ATC. Dosimetric comparison of intensity modulated stereotactic radiotherapy with other stereotactic techniques for locally recurrent nasopharyngeal carcinoma. *Int J Radiation Oncology Biol Phys*. 2011. Vol 79(1): 71-79. (IF = 5.133)

47) **Wu WC***, Chan CL, Wong YW, Cuijpers JP. A study on the influence of breathing phases in intensity-modulated radiotherapy of lung tumours using 4-D CT. *British Journal of Radiology*. 2010. Vol 83:252-256. (IF = 2.050)

48) **Wu VWC***, Mui AWL, FungWWK. Helical tomotherapy of nasopharyngeal carcinoma – any advantages over conventional intensity-modulated radiotherapy. *Medical Dosimetry*. 2010. Vol 35(2):122-127. (IF = 0.957)

49) **Wu VWC*.** Effect of multileaf collimator parameters on treatment planning of intensity-modulated radiotherapy. *Medical Dosimetry* 2007 Vol 32 (1): 38-43. (IF = 0.957)

50) Ying M, **Wu VWC,** Kwong DLW. Comparison of sonographic appearance of normal and post-radiotherapy parotid glands: a prelim study. *Ultrasound in Med & Bio*. 2007 Vol 33 (8): 1244-50. (IF = 2.494)

51) **Wu VWC*,** Sham JST, Kwong DLW. Inverse planning in three-dimensional conformal and intensity-modulated radiotherapy of mid-thoracic oesophageal cancer. *British Journal of Radiology* 2004; 77:568-572. (IF = 2.050)

52) **Wu VWC*,** Kwong DWL, Sham JST. Target dose conformity for 3DCRT and IMRT. *Radiotherapy and Oncology* 2004;71: 201-6. (IF = 4.328)

53) **Wu VWC*,** Kwong DWL, Sham JST. A dosimetric comparison between traditionally planned and inverse planned radiation therapy of non-small cell lung cancer. *The Radiographer* 2003; 50 (3):147-152.

54) **Wu VWC*,** Kwong DWL, Sham JST., Mui AWL. Auto-optimisation for three-dimensional conformal radiotherapy of nasopharyngeal carcinoma. *Radiography* 2003;9:201-210.

55) **Wu VWC***, Sham JST, Kwong DLW. Inverse planning for 3DCRT and IMRT of mid-thoracic oesophageal cancer. Clinical Oncology 2003;15 (2):S6-7. (IF = 3.212)

56) **Wu VWC*,** Cheung KY, Lee L, Tung SY, Leung J, Mui AWL, Law MYY. Evaluation of the user-friendliness and dosimetric accuracy of treatment planning systems for 3-dimensional conformal radiotherapy. *Journal of Radiotherapy in Practice* 2002; 3 (1): 33-41.

57) **Wu VWC*,** Tsang CSC, Mak FHK, Chan JCH, Leung KMW, Leung HW. Dose analysis of boost treatment to parapharyngeal space of nasopharyngeal carcinoma using three-dimensional conformal radiotherapy. *Journal of Radiotherapy in Practice* 2001; 2 (3):139-145.

58) **Vincent WC Wu***, KS Yu, Calvin CW Hui, Rebecca SM Wong, Dragon HL Liu, Ali SN Yueng. Promotion of a visual art program in clinical oncology departments of Hong Kong. *The Hong Kong Radiographers Journal*. Vol 5 (1) 12-17 June 2001.

59) **Wu VWC***, Kwong DLW, Sham JST. Inverse planning by conventional beam optimisation in 3-D conformal radiotherapy of nasopharyngeal carcinoma.*Radiotherapy & Oncology* 2001;58 (S1): S93. (IF = 4.238)

60) **Wu VWC***, Chan, ZHF, Kung SWS, Chau CKF, Fu KCK, Yip KKY. Dose analysis of three 3-D radiotherapy techniques used in booster treatment of nasopharyngeal carcinoma. *Journal of Radiotherapy in Practice* 2000; 2: 27-36.

61) **Wu VWC***. Dose analysis of boost irradiation of parapharyngeal space in nasopharyngeal carcinoma. The Radiographer. 2000. Vol 47(2):61-65.

62) Chan DWI, **Wu VWC**. Comparison of the conventional positioning method and the Hip-fix system for pelvic irradiation. The Hong Kong Radiographers Journal. 2000. Vol 4(1):8-16.

63) **Wu VWC***. A joint seminar in Guangzhou:3-D conformal radiation treatment planning. The Hong Kong Radiographers Journal. 1999. Vol 3(2):29.

64) **Wu VWC***. Inverse planning by conventional beam optimisation. The Hong Kong Radiographers Journal. 1999. Vol 3(2):21-22.

65) **Wu VWC***, Sham JST, Li RWL. Dose analysis of radiotherapy techniques for nasopharyngeal carcinoma. Radiography. 1997. Vol 3:229-240.

66) **Wu VWC***, Sham JST, L RWL. Dose analysis of three-dimensional conformal radiotherapy of nasopharyngeal carcinoma. Hong Kong Radiographers Journal. 1997. Vol 1(1):6 -11.

67) **Wu VWC***, Sham JST, Li RWL. The effect of anterior facial field tilt in split field radiation therapy of NPC. Radiation Therapist. 1997. Vol 6:49-56.

68) **Wu VWC***, Luk JHY, Wong SFT, Lam ECH, Fung MCY, Tong SM, Ku IKM. Different in temporal lobe dose between two radiotherapy techniques in the treatment of NPC with anterior nasal involvement. The Radiographer. 1997. Vol 44:5-9.

69) **Wu VWC***. A Scan of Rontgen. Synergy (The Society & College of Radiographers). 1995. P 38-39.

70) **Wu VWC***. A Study of the Impacts of the Introduction of Degree Training in Therapeutic Radiography to Therapy Radiographers. Radiant II (Hong Kong Radiographers Association). 1994. Vol 1(3):43-48.

71) **Wu VWC***. Intracavitary treatment of nasopharyngeal carcinoma - dose and side-effects. Radiant II (Hong Kong Radiographers Association). 1993. Vol 1:15-20.

72) **Wu VWC***. Main side-effects of manual intubation to patients with nasopharyngeal carcinoma. Radiography Today. 1992. Vol 58(663):9-13.

International Conference Proceedings:

1) Lee, SWY, Or KKM, Kwong JYP, Choy SYH, Lee YSW, **Wu VWC**. Dosimetric impact of flattening filter and flattening filter free beams on IMRT of NSCLC. Radiotherapy & Oncology 2016 Vol 119:S485-6

2) Leung WS, **Wu VWC**, Tang FH, Cheng ACK. Development of a model to produce reference parotid dose from anatomical parameters in IMRT of NPC. Radiotherapy & Oncology 2016 Vol 119:S126

3) **Wu VWC***, Lin ZX. Pattern of radiation induced thyroid changes in NPC patients in first 3 years post-chemoradiotherapy. Radiotherapy & Oncology 2016 Vol 119:S500

4) Fung W, Chiu G, Lee L, **Wu VWC**. Comparing planned (theoretical) and treated (real) dose of large breast tomotherapy in supine and prone position. Radiotherapy & Oncology 2015 Vol 115:S609

5) Li CH, **Wu VWC**, Chiu G. Dosimetric impact of brachial plexus delineation in radiotherapy planning of nasopharyngeal carcinoma. Radiotherapy & Oncology.2015 Vol 115:S588-589

6) Lo K, **Wu VWC**, Li Y, Xu HJ. An analysis of the association of target motion with target size, location and Child-Pugh score in SBRT of liver cancer. 2015 Radiotherapy & Oncology Vol 115:S695.

7) Chiu G, Fung WWK, **Wu VWC**. Geometric and actual dose delivery accuracy in supine and prone position of breast tomotherapy. 2015. Radiotherapy & Oncology Vol 115:S596-597.

8) **Wu VWC***, Ying MTC, Kwong DLW. Radiation-induced changes on temporomandibular joint in nasopharyngeal cancer patients after external beam radiation therapy: A preliminary study. Int J Radiat Oncol Biol Phys. 2014. Vol 90(S1):520

9) Cheng KF, **Wu VWC**, Lee WY, Yip HY, Wong ST. Comparison of setup accuracy of two immobilization systems for head and neck treatment by daily MVCT tomotherapy. 2013. Radiotherapy & Oncology Vol 106(S2):27.

10) Chan JMT, **Wu VWC**, Chiu G. Dosimetric evaluation of tomodirect, helical tomotherapy and field-in-field techniques in breast radiotherapy. 2013. Radiotherapy & Oncology Vol 106(S2):135-136.

11) **Wu VWC***, Lin ZX. A study on thyroid function abnormality due to irradiation of thyroid and pituitary gland in radiotherapy of nasopharyngeal carcinoma. 2013. Radiotherapy & Oncology Vol 106(S2):389-390.

12) Cheuk IWY, Yip SP, Kwong DWL, **Wu VWC***. Association of single nucleotide polymorphism in TGFB1 and acute radiation-induced mucositis in patients with nasopharyngeal carcinoma. *European Journal of Human Genetics*. 2012;20 (S1): 248.

13) Tian F, Yip SP, **Wu VWC***. Promoter hypermethylation of tumor suppressor genes in serum of potential biomarker for the early diagnosis of nasopharyngeal carcinoma. *European Journal of Human Genetics*. 2012;20 (S1): 188.

14) Cheng KF, **Wu VWC**. Evaluation of the effectiveness of immobilisation systems by daily megavoltage computed tomography in tomotherapy. *Radiotherapy & Oncology*, 2012. Vol 103(S1): 599.

15) **Wu VWC*,** Lin ZX, Yang ZN. Comparison of oral cavity dose between different beam arrangements of intensity modulated radiotherapy for nasopharyngeal carcinoma. *Radiotherapy and Oncology.* 2011. Vol 99(S1):501-2.

16) Fung WWK, **Wu VWC.** Dosimetric evaluation of a 3-phase adaptive radiotherapy in NPC. *Radiotherapy and Oncology*. 2011. Vol 99(S1):73.

17) **Wu VWC***, Tang FH. Development of tele-localization system in radiotherapy using personal data assistant device via wireless communication. *Int. J Radiat Oncol Biol Phys*. 2010. Vol 78(3):S487-8.

18) Cheng SCH, Ying MTC, **Wu VWC,** Kwong DLW. Sonographic appearance of parotid glands after treatment with intensity-modulated radiotherapy or conventional radiotherapy for nasopharyngeal carcinoma. *Ultrasound in Med. & Biol.* 2009. Vol 35(8):S213.

Book Chapter:

1) **Wu VWC**, Law MYY, Star-Lack J, Cheung FWK, Ling CC. Technologies of image guidance and the development of advanced linear accelerator systems for radiotherapy in IMRT.IGRT.SBRT Advances in the treatment Planning and Delivery of Radiotherapy. Meyer JL. 2nd Edition. *Front Radiat Ther Oncol.* Kager, Basel, Switzerland. 2011. Vol 43:132-164.

RESEARCH GRANTS:

External Competitive Research Grants:

General Research Fund 2016-17 (15129116). HK$925,616 awarded
Project duration: 36 months. 1 Jan 2016 – 31 Dec 2019
"A longitudinal study on the radiation induced changes of the salivary gland in radiotherapy of nasopharyngeal carcinoma"
PI: **WU Wing-cheung Vincent**; Co-I: YING Tin-cheung Michael, KWONG Lai-wan Dora, KHONG Pik-lan

General Research Fund 2013-14 (563412). HK$659,000 awarded
Project duration: 30 months. Project completed
"Post-radiotherapy changes of temporomandibular joint in nasopharyngeal carcinoma"
PI: **WU Wing-cheung Vincent**; Co-I: YING Tin-cheung Michael, KWONG Lai-wan Dora

Internal Research Grants:

Internal Grant for Proposal Rated 3.5 in GRF 2013-14. Funding Source: Hong Kong Polytechnic University (G-YN45). HK$160,000 awarded.
"Study of radiation induced thyroid damage in NPC patients"
PI: **WU Wing-cheung Vincent**; Co-I: LIN Zhi-xiong

Internal Grant for Proposal Rated 3.5 in GRF 2012-13. Funding Source: Hong Kong Polytechnic University (4-ZZAT). HK$160,000 awarded.
"Post-radiotherapy changes of temporomandibular joint in nasopharyngeal carcinoma"
PI: **WU Wing-cheung Vincent**; Co-I: YING Tin-cheung Michael, KWONG Lai-wan Dora

Internal Central Research Grant 2010. Funding Source: Hong Kong Polytechnic University (YG90). HK$96,776 awarded.
"A study on the relationship of thyroid autoimmune antibodies and radiation induced hypothyroidism in nasopharyngeal cancer patients receiving external beam radiotherapy"
PI: **WU Wing-cheung Vincent**; Co-I: LIN Zhi-xiong

Internal Grant for Proposal Rated 3.5 in GRF 2008-09. Funding Source: Hong Kong Polytechnic University (G-SA09). HK$150,000 awarded.
"Development of a tele-localisation system in radiotherapy using personal data assistant (PDA) via wireless communication"

PI: **WU Wing-cheung Vincent**; Co-I: Tang Fuk-hay
Internal Central Research Grant 2006. Funding Source: Hong Kong Polytechnic University (A-PH26). HK$180,000 awarded.
"Radiation Dosimetry of Helical Tomotherapy in the Treatment of Nasopharyngeal Carcinoma"
PI: **WU Wing-cheung Vincent**; Co-I: KWONG Lai-wan, CHENG Chi-yuen

TEACHING AND LEARNING DEVELOPMENT GRANTS:

Internal Grants:

Comminity of Practice: Academic Advising Funding 2017/18. HK$10,000 awarded
PI: **WU Wing-cheung Vincent**

PolyU eLDSS: E-learning development of radiotherapy learning website 2007/08. HK411,500 awarded.
PI: **WU Wing-cheung Vincent**