



Contents

Message from the Head	1
PolyU Events	2
HTI Seminars and Events	4
Student Exchange	11
Awards and Scholarships	14
Employment Status of Graduates of 2018-19	21
Academic Exchange/ Research Collaboration	22
Other Visits	25
Activities for Secondary Schools	26
Sharing by HTI Students	29
Sharing by HK PhD Fellowship Scheme Awardee	31
Sharing by Student Ambassador of Radiography	32
Publications	33
Grants	36
Sharing by New HTI Academic Staff	41

Department of Health Technology and Informatics (HTI) 2018-19

Activities and Achievements

Message from the Head



I am always excited every August when I review what our Department has achieved ***in the past year***. This brief summary serves not only to update our own staff, but also to share our activities and accomplishments with our students, clinical partners, collaborators and other stakeholders.

In Teaching:

- The DSE-based admission criteria have been revised, effective from the 2019/20 admission, from any best 5 to any best 6 subjects for our programmes, namely BSc (Hons) in Medical Laboratory Science and BSc (Hons) in Radiography. Both programmes remain within the top 4 programmes in PolyU in terms of competitiveness.
- Every department has to undertake Department Review (DR) about once every six years. Our Department undertook DR in April under the newly approved DR framework that focuses on quality assurance of academic programmes and related issues. The immediate feedback from the DR panel was very positive with many commendations, but there are also some minor issues that need to be addressed.
- The quality of student experience of teaching and learning is measured by various key performance indicators (KPIs) defined by PolyU. Our Department is now ranked 10th out of 27 departments/schools (compared with 14th last year or 25th three years ago).

In Research:

- Over 90% of our research funding (HK\$ 21.1 million) is obtained from external competitive grants, which amounts to HK\$19.0 million.
- For General Research Fund (GRF) and Early Career Scheme (ECS), our success rate increased from 33.3% to 38.5%, which is the first time that our Department has overshot PolyU's overall success rate by 4.7%.

Our average funding amount per GRF/ECS project is ranked first within PolyU. We are also ranked first within our Faculty of Health and Social Sciences (FHSS) in three aspects: (a) the success rate, (b) the total funding amount, and (c) the average funding amount per project.

- Our success rate of securing Health and Medical Research Fund (HMRF) is 46.2%, a record high that is way above those for FHSS, PolyU and HMRF overall (23-26%).
- For research-related KPIs defined by PolyU, our Department is now ranked 4th out of 27 departments/schools (compared with 19th last year or 25th three years ago), and first within FHSS.

I wholeheartedly thank all my colleagues for their hard work and perseverance. I strongly believe that we are moving in the right direction and will keep on improving in all aspects.

Head and Professor
Shea Ping Yip

August 2019

PolyU Events

PolyU Education Info Day for Undergraduate Programmes

6 October 2018

PolyU Info Day for Taught Postgraduate Programmes

12 January 2019

Every year, PolyU organizes various Info and Consultation Days on campus to provide HKDSE students, JUPAS applicants, career teachers and the general public with first-hand information on its undergraduate and taught postgraduate programmes.

In 2018-19, a number of information seminars, consultation sessions, laboratory visits, and demonstration sessions were delivered by HTI to give visitors in-depth information on the following programmes, and sharing on campus life experiences during the Info and Consultation Days:

- Master of Science in Medical Laboratory Science
- Master of Science in Medical Imaging & Radiation Science
- Bachelor of Science (Honours) in Medical Laboratory Science
- Bachelor of Science (Honours) in Radiography



**PolyU JUPAS Consultation Day 2019:
Admissions Strategies**

18 May 2019



**PolyU 24th Congregation -
Faculty of Health and Social Sciences**

12 November 2018

The 24th Congregation (Faculty of Health and Social Sciences) was held to confer the academic awards to graduates of the Faculty who have successfully completed their undergraduate or postgraduate study at PolyU in the academic year 2017/18.



MLS Visiting Lecturers

Seminar on Enhancing students' learning in clinical teaching and Appreciation dinner

10 May 2019



Research Seminars by HTI research postgraduate students



HTI Postgraduate Symposium 14 June 2019



**Children's Palliative Care Symposium 2018 cum
Children Palliative Care Foundation Inauguration**

14 October 2018



Long Service Award 2018

22 February 2019



World Radiography Day

8 November 2018



Radiography - Children's Cancer Foundation Voluntary Service Team
 July 2019

A voluntary service team in Radiography, in collaboration with the Hong Kong Children's Cancer Foundation (CCF), has been established since 2017. The team is led by the radiography programme leaders, with members composing of both radiation therapy and medical imaging undergraduates. Every year we organize activities with the CCF to serve children cancer survivors, patients and their relatives with the objectives to

1. Educate and empower them with knowledge and skills to improve quality of life;
2. Encourage positive mindset among patients and survivors through physical and education activities;
3. Create a platform for our students to build their professionalism and compassion through meaningful communication with patients, survivors and their relatives.

Our Service Team leaders:
 - Dr Helen LAW, Radiography Programme Leader & Associate Professor (MI)
 - Dr Shara LEE, Associate Professor (RT)

ACTIVITIES HIGHLIGHTS:
Soci-game: Simulation as 1-day University student
 7 Jul 2019

Leaders: Miss Yanny Wong, Miss Demo Chan, Miss Ashley Ng and Miss Lisa Chan

Twenty-five radiography students created a one-day intensive experience day for 14 cancer survivors aged 16+ who did not have a chance to attend university.



Move & Play: Exercise experiential day for brain cancer patients
 27 Jul 2019

Thirty participants (survivors and their families) joined this half-day exercise programme to encourage them to exercise regularly and improve their health and physique. We invited an experienced physiotherapist to assess and offer advices to individual patients on how to optimize their physical conditions.



Moving Ahead

A large-scale collaborative project 'One-patient-one-story' will be formally introduced into our professional radiography curriculum in 2019/20.

HTI Orientation Day
29 August 2018



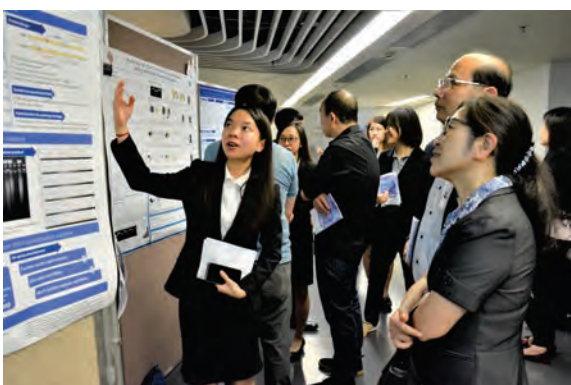
MLS White Coat Ceremony
9 October 2018



Career Talk
21 May 2019



Award Ceremonies for MLS Graduates
31 May 2019



Academic Staff Meeting
8 May 2019



HTI Retreat
11 June 2019



Festive Celebrations

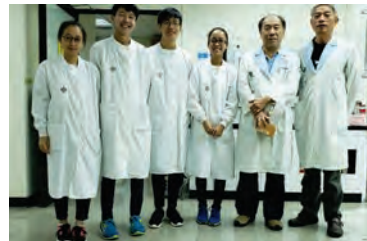


Student Exchange

Inbound Exchange

BSc (Hons) in Medical Laboratory Science

- Chang Gung University, Taiwan
- Glasgow Caledonian University, UK
- Kaohsiung Medical University, Taiwan
- National Cheng Kung University, Taiwan
- National Taiwan University, Taiwan
- National Yang Ming University, Taiwan
- University of Applied Sciences Krems, Austria
- Western Norway University of Applied Sciences, Norway



BSc (Hons) in Radiography

- Western Norway University of Applied Sciences, Bergen, Norway



Outbound Exchange

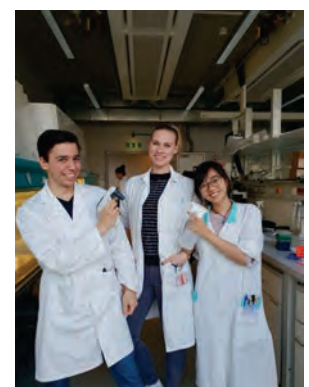
BSc (Hons) in Medical Laboratory Science

- Chang Gung Memorial Hospital, Taiwan
- Chang Gung University, Taiwan
- China Medical University Hospital, Taiwan
- Kaohsiung Medical University Chung-Ho Memorial Hospital, Taiwan
- KingMed Diagnostics Laboratories, Guangzhou, China
- Glasgow Caledonian University, UK
- National Cheng Kung University Hospital, Taiwan
- National Taiwan University Hospital, Taiwan
- National Yang Ming University Hospital, Taiwan
- SA Pathology (Transfusion Medicine, FMC), South Australia
- University of Applied Sciences Krems, Austria
- Western Norway University of Applied Sciences, Norway



BSc (Hons) in Radiography

- China Medical University, Taichung, Taipei, Taiwan
- Linköping University, Sweden
- Nanyang Technological University, Singapore
- National Yang-Ming University, Taipei, Taiwan
- South-Eastern Finland University of Applied Sciences (XAMK), Finland
- Sun Yat-sen University, Guangzhou, China
- University of Stuttgart, Germany
- Western Norway University of Applied Sciences, Bergen, Norway
- Sichuan University, Sichuan, China
- Panzhihua University, Sichuan, China



Summer@OxBridge 2019

This is a prestigious and extremely competitive programme. This year, HTI has a record high of 7 students out of the total 30 PolyU students got accepted and sponsored for HK\$50,000 each to either of the Summer@Oxford and Summer@Cambridge 4-week summer programmes. In addition, one HTI student seized the rare opportunity without sponsorship.

The 8 students going for the Summer@OxBridge are: LI Ka Leong (MLS Yr 2), YAN Bo Kei (MLS Yr 2), LEUNG Chun Hei (MLS Yr 3), WONG Po Tsz (Radiography Yr 2), WONG Ka Ying (Radiography Yr 2), LIU Wang Fung (Radiography Yr 3), WONG Chun Kin (Radiography Yr 3) and WU Yaobin (Radiography Yr 3).



IAO Summer Outbound Exchange

A total of 9 HTI students were accepted for the IAO Summer Outbound Exchange to Sweden, Germany, Finland, Korea and Singapore. They are CHAN Tin Cheuk (MLS), CHAN Wing Fai (MLS), LAM Hoi Ching (MLS), LI Wui Man (MLS), WONG Lok Yee (MLS), LAU Tsz Chun (Radiography), SIN Chun Lok (Radiography), WAN Ka Wing (Radiography) and WOO Chor Fung (Radiography).



Visit to Sun Yat-sen University, Cancer Hospital, Guangzhou

Ten year-4 radiation therapy students visited to Sun Yat-sen University, Cancer Hospital, Guangzhou, from 19 to 24 December 2019, led by Dr Vincent Wu.

They attended many activities, including student symposium, hospital visit and attachment, tours to university, museum and various kind of cultural visits.

This visit greatly broaden the clinical and cultural knowledge of students and encourage the interactions between students and teachers from Mainland China.

Name of students: Miss Janice Au-Yeung, Mr Wilson Chan, Mr Brian Cheung, Miss Maggie Fung, Miss Stella Ho, Mr Adrian Liu, Miss Candy Sham, Mr Tony Tam, Mr Edwin Tong and Mr William Wong.



Visit to West China Hospital, Sichuan University and Panzihua University Affiliated Hospital, Sichuan

Three year-3 radiation therapy students (Miss Yanny Wong, Miss Demo Chan and Mr John Wong) participated in an academic exchange and clinical visit to Sichuan Province from 10 July to 19 July 2019, led by Mr Vincent Leung, our Clinical Associate and Coordinator. This is one of the Work-integrated Education (WIE) programme offered by the Department with the objective to enrich students' exposure to clinical services outside Hong Kong. Students visited the West China Hospital, Sichuan University and the Panzihua University Affiliated Hospital during this 10-day trip.

They attended sharing sessions with local students, radiation therapists and oncologists. Our students conducted a sharing session introducing our radiography programme and the current radiotherapy services in Hong Kong. They also participated in a local education course on radiotherapy patient care and technology.

Furthermore, students were also given hands-on experience in the operation of radiotherapy machines and equipment at the West China Hospital as part of the clinical placement activity.

Feedback from our students:

Miss Yanny Wong: 'I was blessed to participate in this study trip to appreciate the RT services, meet the welcoming people and visit the beautiful places in Sichuan. Definitely a memorable one!'

Miss Demo Chan: 'It was an unforgettable trip. Everyone we met in the West China Hospital was welcoming. Besides, we learned a lot about RT services in Sichuan through attending lectures and clinical visit. I really enjoyed the trip.'

Mr John Wong: 'It was a fantastic study trip. We explored the similarities and differences of radiation therapy practice between Hong Kong and Sichuan. We also witnessed the technological advancements in China, such as the use optical surface imaging in radiotherapy. Attending the academic conference has widened our horizons in the updated treatment strategies and care in patients with lung cancers. It is my pleasure to participate in this trip. The knowledge and experience gained are vital to my future career development in radiotherapy.'

This was a precious experience for every one of us and has broaden our horizons through intellectual exchanges, hospital visits and demonstrations. This exchange activity is organized regularly once every year and we look forward to another fruitful trip with our radiotherapy students next year.

攀枝花学院附属医院肿瘤科: 我院肿瘤科成功举办市级继续医学教育项目“肺癌精准诊疗沙龙”暨 香港理工大学师生到我院学术交流 (16 Jul 2019): <http://www.pzhzxy66.com/article/detail/id/2102.html>



Awards and Scholarships

Awards / Prizes

Doctor of Philosophy

The Certificate of Excellence issued for Outstanding Standard of Oral Presentation

– Organizing Committee of 2018 International Symposium on NanoBiotechnology, Biosensors and Biochips

WONG Ngai Nick Alex

Medical Imaging

The Young Investigator Awards (Poster Category) under the support of Sun Chieh Yeh Heart Foundation and the Research Centre of Heart, Brain, Hormone & Healthy Aging

Poster title: Hematopoietic APPL1 inhibits macrophage-mediated adipose tissue inflammation and insulin resistance in obesity by dampening NLRP3 inflammasome activation

– The 14th International Symposium on Healthy Aging “Embrace the Golden Years”

WU Ka Lok

Medical Imaging

BSc (Hons) in Radiography

Outstanding Student Award, Department of Health Technology and Informatics, 2018

FUNG Wai Yin

Radiation Therapy

The Radiography Alumni Association Award – The Best Improvement Student of Year 2

CHEE Wing Hei

Medical Imaging

Hong Kong Association of Radiation Therapists Award – The Best Improvement Student of Year 3

PUN Pui Sze

Medical Imaging

Hong Kong Association of Radiation Therapists Award – The Best Performance in Objective Structured Clinical Examination

CHAN Man Lok

Best in Medical Imaging

FUNG Wai Yin

Best in Radiation Therapy

Hong Kong Radiographers' Association Award – The Best Student in BSc (Hons) Radiography

TO Lok Hang

Medical Imaging

FUNG Wai Yin

Radiation Therapy

Awardees for the Best Students in Subjects

BSc (Hons) in Medical Laboratory Science

Award	Awardee(s)
Book Prize from The Hong Kong Association of Blood Transfusion and Haematology for The Best Student in Haematology	CHEUNG Siu Kwan
Book Prize from The Hong Kong Society of Microbiology & Infection for The Best Student in Medical Microbiology	HUANG Po Yuk
Book Prize from The Hong Kong College of Pathologists for The Best Student of the programme	WONG Chun Hei TAM Tsz Yan, Sharon
Book Prize from The Hong Kong Society of Clinical Chemistry for The Best Student in Clinical Chemistry	KUNG Wai Hing
Book Prize from The Hong Kong Society for Molecular Diagnostic Sciences Limited for the Best Student in Molecular Biology in Medicine	KEE Ka Yee
Book Prize from The Hong Kong Society for Molecular Diagnostic Sciences Limited for the Best Student in Molecular Diagnostics of Human Disease	Lee Ho Ching Edmond
Book Prize from The Hong Kong Association of Medical Laboratories Limited for The Best Student in Honours Project	WONG Chun Hei

BSc (Hons) in Radiography

Subject	Award	Awardee(s)
Clinical Studies (Medical Imaging)	<i>Best Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i>	LAM Cheuk Yan LIU Ching Yi CHAN Chi Wing CHIANG Lok Sze Louisa HUI Wai Ming
Clinical Studies (Radiation Therapy)	<i>Best Award</i> <i>Highly Commended Award</i>	FUNG Wai Yin TAM Chun Yan Tony
Computed Tomography (Medical Imaging)	<i>Best Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i>	CHAN Angel Kei Kwan CHIANG Lok Sze Louisa TO Lok Hang GU Pik Man SZETO Ho Lun Roland YAN Tsz Nok
Imaging Informatics	<i>Best Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i>	SHUM Wun Yu LAM Cheuk Yan TO Lok Hang CHAN Cappi T. Y. LAU Wai Kwan
Imaging in Radiotherapy	<i>Best Award</i> <i>Highly Commended Award</i>	FUNG Wai Yin HO Pui Pik
Magnetic Resonance Imaging (Medical Imaging)	<i>Best Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i>	TSE Ka Yan Theresa GU Pik Man LIN Weikun SHUM Wun Yu TAI Ki Sang Cayson

BSc (Hons) in Radiography (cont'd)



Subject	Award	Awardee(s)
Medical Imaging Studies III	<i>Best Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i>	TSE Ka Yan Theresa GU Pik Man LIN Weikun SHUM Wun Yu TAI Ki Sang Cayson
Project	<i>Best Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i>	TSE Ka Yan Theresa TO Lok Hang HUI Ka Ching CHAN Angel Kei Kwan HUI Fuk Yuen MAN Chi Fai FUNG Wai Yin
Radionuclide Imaging	<i>Best Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i>	CHAN Cappi T. Y. CHONG Ka Ho NG Wai Chun TANG Yuk Kuen TSE Ka Yan Theresa
Radiotherapy Equipment & Dosimetry	<i>Best Award</i> <i>Highly Commended Award</i>	HO Pui Pik FUNG Wai Yin
Radiotherapy Patient Management	<i>Best Award</i> <i>Highly Commended Award</i>	FUNG Wai Yin TONG Kin Kei
Radiotherapy Studies IV	<i>Best Award</i> <i>Highly Commended Award</i>	FUNG Wai Yin HO Pui Pik
Special Cancer Therapy	<i>Best Award</i> <i>Highly Commended Award</i>	FUNG Wai Yin WONG Wai Lung
Ultrasonography	<i>Best Award</i> <i>Best Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i>	GU Pik Man SHUM Wun Yu LIN Weikun HUI Wai Ming KWONG Hui Ching LO Sze Wan Naomi
Vascular & Interventional Radiology	<i>Best Award</i> <i>Best Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i> <i>Highly Commended Award</i>	TSE Ka Yan Theresa CHAN Angel Kei Kwan GU Pik Man SHUM Wun Yu TO Lok Hang

Scholarships

Doctor of Philosophy

Scholarship	Awardee(s)
Li Po Chun Charitable Trust Fund Scholarship 2018/19	TAM Shing Yau

BSc (Hons) in Medical Laboratory Science

Scholarship	Awardee(s)
CEO Club Scholarship	HUANG Po Yuk KEE Ka Yee
Dr. Y.K. Ching Memorial Scholarship	LI Ka Leong
Health Medical Diagnostic Centre Prize in Medical Laboratory Science	CHEUNG Siu Kwan
HKSAR Government Scholarship	CHAN Pui Yee TANG Hong Yiu FOK Man Kit TSE Ka Wai HO Kai Lim WONG Wing Yan NG Tsz Wai YAN Bo Kei
HKSAR Government Scholarship Fund – Reaching Out Award	CHAN Ming Tzar LIU Ho Man HUNG Choi Hang NG Tsz Wai LAM Lok Yung
HKSAR Government Scholarship Fund – Talent Development Scholarship	LI Ka Leong YIP Cheuk Yi
HOU Wan Chuen Scholarship for Medical Laboratory Science	CHOI Lai Yuen LEUNG Ka Long
Innovation and Technology Scholarship	<p>LI Ka Leong</p>  <p>TANG Hong Yiu</p> 

BSc (Hons) in Medical Laboratory Science (cont'd)

Scholarship	Awardee(s)	
Michael Shum Scholarship	WONG Chun Yin	
Multi-faceted Excellence Scholarship	CHAN Tin Mei Tammy	
The D. H. Chen Foundation Scholarship	CHAN Wai	
The Hong Kong Jockey Club Scholarship	WAN Ching Mei	
The Hong Kong Polytechnic University Entry Scholarship (Academic)	CHAN Kin Sing CHAN Pak Wing CHEUNG Man Him CHIU Wing Ki CHOI Lai Yuen CHOW Pak Ho CHUE Hong Kiu FU Cheuk Hei FUNG Yuen Ching GUO Zaiye KOO Sophie KWOK Wing Yee LAI Wing Shan LAM Tsz Fung LAM Yan Ki Agnes LEUNG Jing Hei LEUNG Ka Long LI Lok Yi	MAK Wing Yiu NG Hei Naam RUAN Si Yu TAM Sze Lai TANG Ching Man TIN Pui TSUI Siu Yan TSUI Wai Yan Vivian WAN Shin Yau WONG Kwok Wing WONG Man To WONG Suet Man WONG Ying WOO Kwok Sang YAU Tsz Ho YAU Tsz Ki Jackie YAU Yuen Wai
The Hong Kong Polytechnic University Scholarship	CHING Cheuk Hei	LI Ka Leong
Tigris Education Fund - Medical Laboratory Science Student Scholarship 2018	CHAN Pui Yee	TANG Hong Yiu
Wei Lun Foundation Scholarship	CHING Cheuk Hei	HUANG Po Yuk
Wofoo Foundation Scholarship	NG Ka Yuet	

BSc (Hons) in Radiography

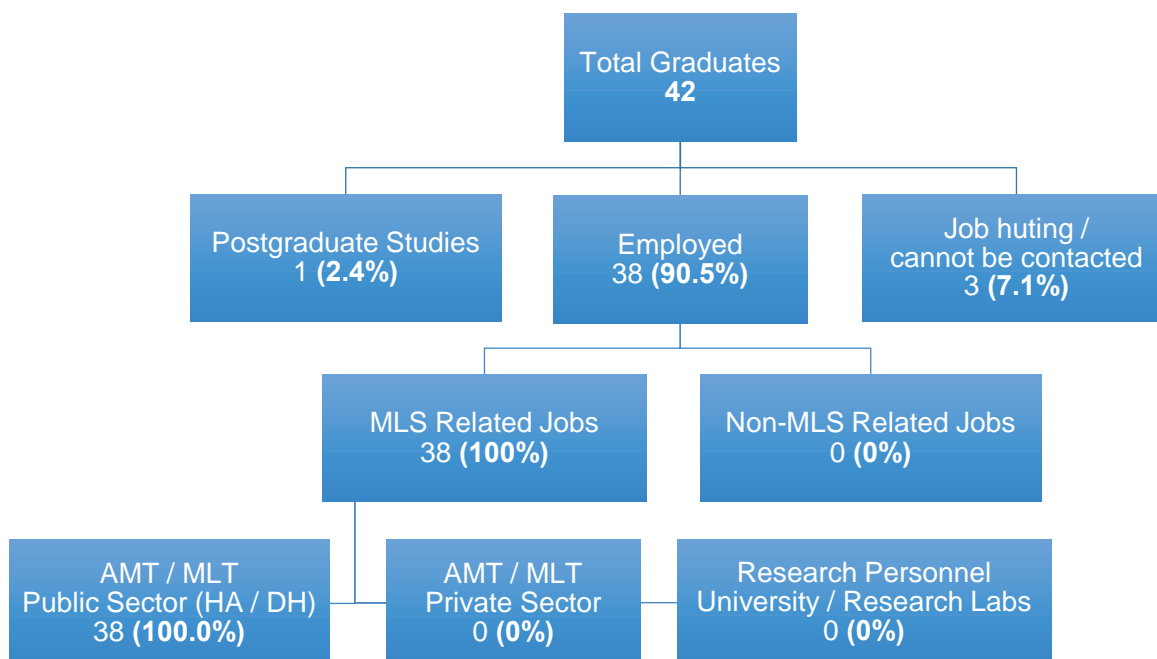
Scholarship	Awardee(s)
Calry Chiu Chui Yin Scholarship	GU Pik Man
CEO Club Scholarship	LAM Cheuk Yiu WONG Ka Yiu
Fuji Radiography Award	TO Lok Hang
Health Medical Diagnostic Centre Prize in Radiography	CHEUNG Pak Kin
HKSAR Government Scholarship	TO Lok Hang WONG Po Tsz TSE Ka Yan Theresa WU Yaobin WONG Chun Kin
HKSAR Government Scholarship Fund - Endeavour Merit Award	WONG Yuk Kwong
HKSAR Government Scholarship Fund - Reaching Out Award	CHAN Yik Ying WU Yaobin WONG Chun Kin YEUNG Yuk Kin
HKSAR Government Scholarship Fund - Talent Development Scholarship	CHAN Wei Kei NG Natalie CHO Ming Kiu SIN Chun Lok KAN Yui Him TO Hoi Ying LAM Ka Yan TSUI Yi Hang NG Ka Yan WONG Hon Sing
Lee Hysan Scholarship for Service-Learning Exchange	TANG Yuk Kuen
Multi-faceted Excellence Scholarship	LEE Tin Hang
President Emeritus Professor Poon Chung-kwong Scholarship	WONG Yuk Kwong
The D. H. Chen Foundation Scholarship	TAI Felix Chun Ho
The Hong Kong Jockey Club Scholarship	WONG Yuk Kwong

BSc (Hons) in Radiography (cont'd)

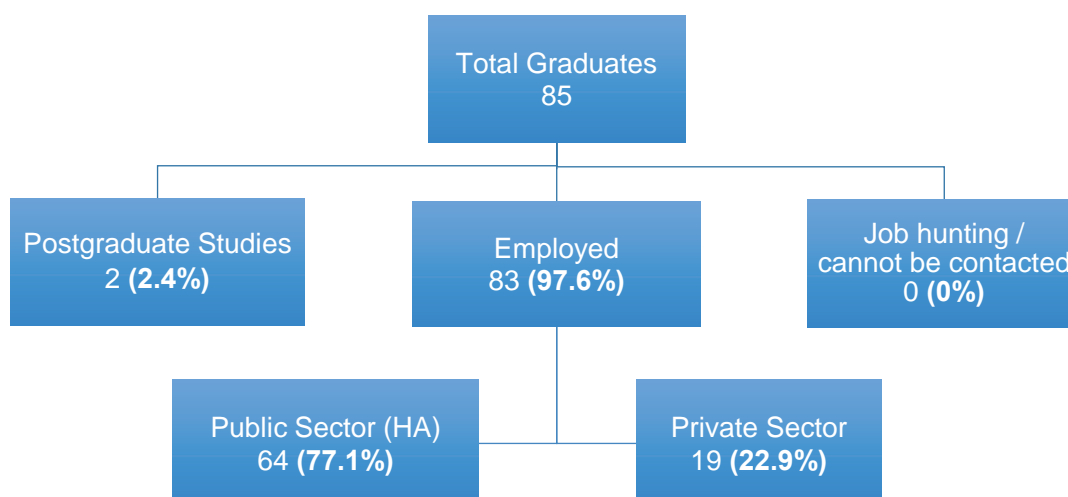
Scholarship	Awardee(s)
The Hong Kong Polytechnic University Entry Scholarship (Academic)	CHAN Cheuk Yiu CHAN Chun Wai CHAN Ho Ting CHAN Kin Ting CHAN Wang Hin CHAN Yuen Kwan Tiffany CHAU Tsz Kin CHAU Yip Hang CHENG Hoi Ying CHENG Pak Chun CHENG Shing Hei CHEUNG Cheuk Him CHEUNG Ho Yeung CHEUNG Ho Yung CHEUNG Ka Shing CHEUNG Ki CHEUNG Tsun Hei CHING Chi Fung CHIU Sum Tung Tracy CHOI Long Fung CHOI Shing Yan CHOW Chun Hong CHOW Ka Hei Kelvin CHUNG Ho Pong FUNG Chun Hei FUNG Tsz Ching GUAN Junxia HO Bowman HO Sum Yin Serene KEUNG Siu Hei KWOK Man Hei KWOK Ying Chung KWONG Chung Ki Joanne LAI Kin Ming LAM Chun Hin LAM Tsun Ming LAM Wing Ki LEE Chun Him LEE Ho Lun LEE Hok Chi LEE Kin Hei LEE Tsz Ying Melody LEUNG Lok Hang Julian LO Sai Him LO Yee Hin LUI On Yi NG Chak Sum NG Hin Ming NG Hiu Tung NG Yuen Lam NGAN Ka Ching Tiffany OR Tsun Hei PANG Kwok Pan POON Ka Lun SHARE Hiu Ching SO Hong Wai SUN Jiachen TO Ka Yu TSANG Wing Yan WONG Siu Man WONG Tsz Ho WONG Tuen Yee WONG Yuen Chun YEUNG Wai Lam YIP Pui Yin YUEN Chun Wang YUEN Him Pok
The Hong Kong Polytechnic University Scholarship	LAM Cheuk Yiu
Wei Lun Foundation Scholarship	LAM Cheuk Yiu
Wofoo Foundation Scholarship	WAN Cheuk Fung

Employment Status of Graduates of 2018-19

Employment status of graduates BSc(Hons) in Medical Laboratory Science 2019 (as of 5 August 2019)*



Employment status of graduates BSc(Hons) in Radiography 2019



AMT : Associate Medical Technologist
 MLT : Medical Laboratory Technologist
 HA : Hospital Authority
 DH : Department of Health

(Data collected in August 2019)

Academic Exchange/ Research Collaboration

The Department has been striving for academic and research excellence in biomedical science, radiation science and medical imaging. We have established collaboration bridges with institutions and renowned scholars around the world to facilitate academic exchanges and research collaborations.

National Taiwan University, Taiwan

11 October 2018



University of California, US

8 November 2018



University of Pennsylvania, US

13 November 2018

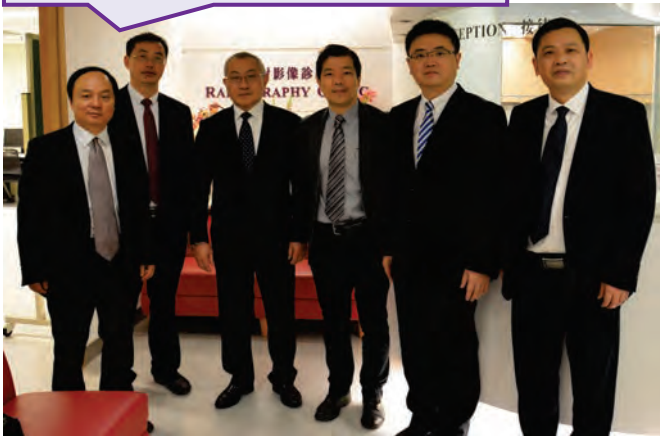


Trinity College Dublin, Ireland

19 December 2018



North Sichuan Medical School, China
20 December 2018



University of Applied Sciences and Arts Western Switzerland, Switzerland
18 February 2019



Wenzhou Medical University, China
22 February 2019



Sichuan University, China
25 February 2019



Capital Medical University, China

4 March 2019



University of Sydney, Australia

3 April 2019



Western Norway University of Applied Sciences, Norway

23 May 2019



Shandong First Medical University, China

11 July 2019



Kaohsiung Medical University, Taiwan

5 Aug 2019



Other Visits

Visit by Overseas Academic Advisors

2 October 2018



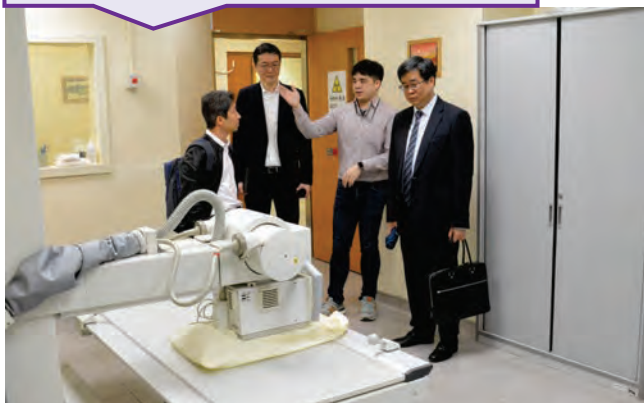
Visit by Departmental Academic Advisors

14 January 2019



Visit by Hong Kong Oncology Center

18 February 2019



Visit by Auxiliary Medical Service

29 June 2019



Activities for Secondary Schools 2018-19

Sacred Heart Canossian College
28 September 2018



Tak Sun Secondary School
10 November 2018



Pui Ching Middle School
21 November 2018



Diocesan Boys' School
20 February 2019



United Christian College (Kowloon East)
28 March 2019



Sha Tin Methodist College

4 April 2019



The Hong Kong Academy for Gifted Education

23 April 2019



Queen's College

26 April 2019



HKUGA College University Fair

12 October 2018



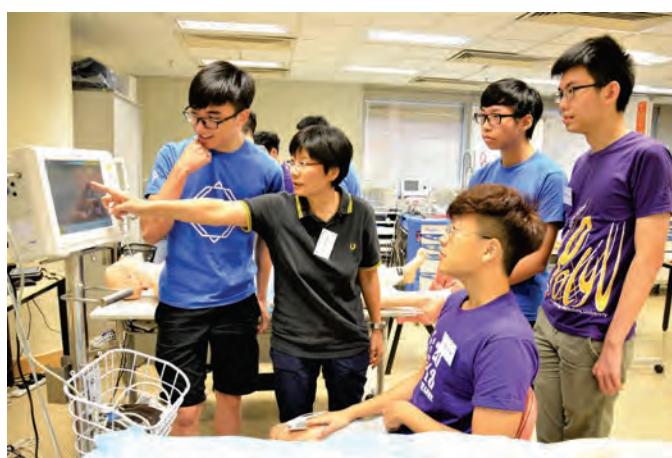
PolyU STEM Day

18 December 2018



PolyU Summer Programme – HTI

28 June 2019



Average HKDSE Admission Scores* for HTI Programmes in 2017, 2018 and 2019

*Information provided here is the HKDSE examination results of offered applicants in JUPAS main round admission

Admission Year	Average HKDSE Score Total (Ranking [^])	
	BSc(Hons) Medical Laboratory Science (JUPAS Code: JS3478)	BSc(Hons) Radiography (JUPAS Code: JS3612)
Any Best 6 subjects		
2019	32.5 (3 rd)	32.1 (4 th)
Any Best 5 subjects		
2018	28.7 (2 nd)	27.6 (4 th)
2017	29.3 (2 nd)	28.3 (4 th)

[^] Ranking among all PolyU degree programmes

Sharing by HTI Students

LI Ka Leong

Medical Laboratory Science

It was until the camera flashes on the stage in the award ceremony I realised that I was one of the twenty awardees in Innovation and Technology Scholarship 2019. The Innovation and Technology Scholarship is supported and sponsored by the Innovation and Technology Commission and HSBC, organised by the Hong Kong Federation of Youth Groups. Amidst emotions of surprise and joy, I am honoured to be one of the awardees to be able to participate in an overseas attachment programme and upcoming service project programme. The 2-month Pembroke-King's Summer Programme at the University of Cambridge was definitely a once-of-a-lifetime experience.

The Pembroke-King's Summer Programme was jointly held by Pembroke College and King's College of the University of Cambridge to provide students with an opportunity to experience Cambridge student life with a wide spectrum of courses in arts, humanities, business, social sciences and, of course, maths and science. Throughout the course, I was able to have a glimpse of the academic culture and environment in one of the top-notch universities in the world. Courses that I opted for, including neuroscience, gender study and world politics, are intriguing and mind-provoking. The summer programme offered a unique opportunity for students to enjoy interactive small-group teaching in a beautiful and inspiring academic setting. In the historical and cultural environment of the small town Cambridge, I found that meeting and having conversations with people with all walks of life is engrossing and fascinating. Being able to participate in a formal dinner in a traditional British institute and punting in River Cam was also an unforgettable experience for me to enjoy and learn about traditional British culture. Upon walking through the paths that many famous and influential scientists had experienced, I eventually find myself standing on the shoulders of giants, to learn and to understand the world and her people in an adventurous but humble way.



TANG HONG YIN

Medical Laboratory Science

I am extremely honoured to be selected as one of the awardees of the Innovation and Technology Scholarship 2019-2020. With the generous support from this scholarship, I visited the University of Cambridge during this summer to complete a six- week summer programme. I was also assigned to a mentor who has a remarkable personality in his field of expertise. I was particularly fortunate to have Professor Paul Tam, the deputy chancellor of the University of Hong Kong, as my mentor. Professor Tam is a leading physician in pediatric surgery and had vibrant achievement in medical research. Despite his busy schedule, he kindly spared his time to meet me in person. During our meeting, Professor Tam introduced me to the field of Medicine which is closely related to my field of study, I realised the opportunities for inter-disciplinary collaboration are endless and how important it is in healthcare provision. He also offered me some invaluable advice regarding my aspiration and my future career pathway, his horizon and experiences amazed and inspired me tremendously to unveil my potential. In spite of his prestigious title, I did not feel distant from him owing to his kindness and enthusiasm in advising me. His advice inspired me a lot and I am genuinely grateful for his unfailing guidance and support.

It is my sheer privilege to be awarded this prestigious IT scholarship. Being awarded this scholarship is undoubtedly one of the most precious experience I have had in my university life. I would like to extend my heartfelt gratitude to everyone who assisted me along the way and people who made all of this possible. I would not take these amazing opportunities for granted, but to cherish them and hopefully one day I could contribute back to the society by utilising what I have learnt during these experiences.



Sharing by HK PhD Fellowship Scheme Awardee

TULU, Ketema Tafess
Medical Laboratory Science

Back in 2016, being a graduate in Tropical and Infectious Diseases from Addis Ababa University, Ethiopia and inspired by the research prospects of the field, I had been looking for further research opportunities in universities across the globe. It was then that I came to learn the great opportunities in the universities of Hong Kong from one of my friends. Compelling the advice from him, I enjoyed the coherently described application procedures of the Hong Kong PhD Fellowship. The fellowship award was a highly exciting moment as it offers appropriate financial support for personal and academic purposes. I found this prestigious fellowship award indeed rewarding and to my greatest expectation.

My three years of PhD study at the Department of Health Technology and Informatics (HTI), The Hong Kong Polytechnic University provided me with unlimited opportunities to explore the area of life science which I have been dreaming. I found the Department and the University in general offering hugely satisfying academic and research environments by making use of state-of-the-art and world-class technologies. Particularly, I got a thrilling opportunity to connect with diverse international students and scholars from around the world from whom I had shared lots of experiences. Being trained at the Department of HTI, I had the chance to learn the cutting-edge technologies in my specialty and, expectedly, to have better publications that could open new opportunities.

Lastly, the fellowship also presents me a window of possibility to experience the cultural diversity in the vibrant city, Hong Kong. Honestly, I am in a position to strongly recommend fellow students across the world to apply for this incredible fellowship opportunity.



Sharing by Student Ambassador of Radiography

2018-19 SESSION

STUDENT AMBASSADOR OF RADIOGRAPHY

Entering the second year after establishing the Student Ambassador of Radiography (SAR), we are dedicated to striving for benefits for our Radiography students, to adding value to our discipline, and to serving our community with our every effort.

ABOUT

- Founded in June 2017

MISSION

- Public Education;
- Admission information;
- Social consciousness;
- Interdisciplinary collaboration

3 CORE TEAM

ACADEMIC ENRICHMENT

Enrich the learning experience of our fellow students

Activities Highlights:

- Streaming Talk
- Job shadowing in St. Teresa's Hospital
- Visit to Daya Bay Nuclear Plant
- Visit to the HKIOC / HKAOC
- Taiwan Study Tour
- Publication of Placement Booklet



STUDENT OUTREACH

Promote the PolyU Radiography programme to prospective students

Activities Highlights:

- 9 School talks
- 3 Laboratory tours
- 3 University fairs cooperated with SSRS
- Summer Programme cooperated with HTI



PUBLIC AWARENESS

Make a contribution to society with our relevant knowledge and skills

Activities Highlights:

- World Radiography Day (collaborated with HKRA and HKART)
- Soci-game (collaborated with CCF)
- Volunteer service (elderly centre)
- Radiography Leaflet distribution around PolyU clinic



Sharing from Participants

I really gained much from this study tour and the richest reward is not only the knowledge in the lab tour or hospital, but also the relationship with both my fellow classmates and those from Taiwan. This friendship is a priceless treasure.

- Year-2 Radiography student
Cheung Ho Yin, Joey

Thank you very much for arranging such a fruitful visit @PolyU for our students to learn more about Radiography. Our students and I did enjoy visiting different labs and interacting with the team of student ambassadors... it would be very good if similar event can be held for our Physics students in the future.

- SMKMF Ma Ko Pan Memorial College
Mr. Chan Ho Hin

Publications

- 1 Ata H, Ekstrom T, Martínez-Gálvez G, Mann CM, Dvornikov AV, Schaeffbauer KJ, Ma AC, Dobbs D, Clark KJ, Ekker SC. (2018). **Robust activation of microhomology-mediated end joining for precision gene editing applications.** *PLoS Genetics* 14(9):e1007652. [IF:5.224]
- 2 Cao H, Wang C, Chen X, Hou J, Xiang Z, Shen Y, Han X. (2018). **Inhibition of Wnt/beta-catenin signaling suppresses myofibroblast differentiation of lung resident mesenchymal stem cells and pulmonary fibrosis.** *Scientific Reports* 8(1):13644. [IF: 4.011]
- 3 Chan LWC, Wang F, Meng F, Wang L, Wong SCC, Au JS, Yang S, Cho WC. (2018). **Multi-scale representation of proteomic data exhibits distinct microRNA regulatory modules in non-smoking female patients with lung adenocarcinoma.** *Computers in Biology and Medicine* 102:51-56. [IF:2.286]
- 4 Chang CY, Chang SL, Leu JD, Chang YC, Hsiao M, Lin LT, Lin HN, Lee YJ. (2019). **Comparison of cofilin-1 and Twist-1 protein expression in human non-small cell lung cancer tissues.** *Oncology Reports* [IF:3.041]
- 5 Cui T, Miller GW, Mugler JP, Gorden C, Mata JF, de Lange EE, Huang Q, Altes T, Yin FF, Cai J. (2018). **An Initial Investigation of Hyperpolarized Gas Tagging Magnetic Resonance Imaging in Evaluating Deformable Image Registration Based Lung Ventilation.** *Medical Physics* 45(12):5535-5542 [IF:3.177]
- 6 Han S, Yin FF, Cai J. (2019). **Evaluation of dosimetric uncertainty caused by MR geometric distortion in MRI-based liver SBRT treatment planning.** *Journal of Applied Clinical Medical Physics* 20(2):43-50. [IF:1.544]
- 7 Harris W, Wang C, Yin FF, Cai J, Ren L. (2018). **A Novel method to generate on-board 4D MRI using prior 4D MRI and on-board kV projections from a conventional LINAC for target localization in liver SBRT.** *Medical Physics* 45(7):3238-3245 [IF:3.177]
- 8 Hou J, Shi J, Chen L, Lv Z, Chen X, Cao H, Xiang Z, Han X. (2018). **M2 macrophages promote myofibroblast differentiation of LR-MSCs and are associated with pulmonary fibrogenesis.** *Cell Commun Signal* 16(1):89. [IF:5.111]
- 9 Hu L, Huang Q, Cui T, Duarte I, Miller GW, Mugler III J, Cates G, Mata J, de Lange E, Altes T, Yin FF, Cai J. (2019). **A hybrid proton and hyperpolarized gas tagging MRI technique for lung respiratory motion imaging: the feasibility study.** *Physics in Medicine and Biology* 64(10):105019. [IF:3.030]
- 10 Huang Y, Kee CS, Hocking PM, Williams C, Yip SP, Guggenheim JA, UK Biobank Eye and Vision Consortium, CREAM Consortium. (2019). **A Genome-Wide Association Study for Susceptibility to Visual Experience-Induced Myopia.** *Investigative Ophthalmology and Visual Science* 60(2):559-569 [IF:3.812] (SP Yip is also a member of CREAM Consortium)
- 11 Islam Khan MZ, Tam SY and Law HKW. (2019). **Autophagy-modulating long non-coding RNAs (lncRNAs) and their molecular events in cancer.** *Frontiers in Genetics* 9:750 [IF:3.517]
- 12 J Kipritidis, G Cazoulat, B Tahir, M Hofman, S Siva, J Callahan, T Yamamoto, G Christensen, J Reinhardt, N Kadoya, T Patton, S Gerard, I Duarte, B Archibald-Heeren, M Byrne, R Sims, E Eslick, F Hegi-Johnson, H Woodruff, R Ireland, J Wild, Cai J, J Bayouth, K Brock, P Keall. (2019). **The VAMPIRE Challenge: A Multi-Institutional Validation Study of CT Ventilation Imaging.** *Medical Physics* 46(3):1198-1217. [IF:3.177]
- 13 Kwok J, Chu P, Ong C, Law HK, Ip P, Chan GCF, Lu L. (2018). **Role of Regulatory T Cells in Noninherited Maternal Antigen-Related Tolerance in Cord Blood: An in Vitro Study.** *Biol Blood Marrow Transplant* 25(3):424-435 [IF:3.599]
- 14 Lafata K, Cai J, Wang C, Hong J, Kelsey C, Yin FF. (2018). **Spatial-Temporal Variability of Radiomic Features and its Effect on the Classification of Lung Cancer Histology.** *Physics in Medicine and Biology* 63(22):225003 [IF:3.030]
- 15 Lee C, Kim GR, Yoon J, Kim SE, Yoo JS, Piao Y. (2018). **In Vivo delineation of glioblastoma by targeting tumor-associated macrophages with near-infrared fluorescent silica-coated iron oxide nanoparticles in orthotopic xenografts for surgical guidance.** *Scientific Reports* 8(1):11122. [IF:4.011]
- 16 Leung KS, Siu GK, Tam KK, Ho PL, Wong SS, Leung EK, Yu SH, Ma OC, Yam WC. (2018). **Diagnostic evaluation of an in-house developed single-tube, duplex, nested IS6110 real-time PCR assay for rapid pulmonary tuberculosis diagnosis.** *Tuberculosis (Edinb)* 112:120-125 [IF: 2.790]
- 17 Leung KS, To SW, Chen JH, Siu GK, Chan KC, Yam WC. (2019). **Molecular characterization of HIV-1 minority subtypes in Hong Kong: A recent epidemic of CRF07_BC among the men who have sex with men population.** *Current HIV Research* 17(1):53-64 [IF:1.115]
- 18 Leung PHM, Subramanya R, Mou Q, Lee KT, Islam F, Gopalan V, Lu CT, Lam AK. (2019). **Characterization of Mucosa-Associated Microbiota in Matched Cancer and Non-neoplastic Mucosa From Patients With Colorectal Cancer.** *Frontiers in Microbiology* 10:1317. [IF:4.259]

- 19 Li Athena KL, Wu VWC. (2018). **Dosimetric impact of bladder volume variation in radiotherapy for prostate cancer – a pilot study.** *Journal of Cancer Science & Therapy* 10(7): 173-174.
- 20 Li J, Li K, Chen X. (2019). **Inflammation-regulatory microRNAs: Valuable targets for intracranial atherosclerosis.** *Journal of Neuroscience Research* 97(10):1242-1252. [IF:4.139]
- 21 Li SK, Shan SW, Li HL, Cheng AK, Pan F, Yip SP, Civan MM, To CH, Do CW. (2018). **Characterization and Regulation of Gap Junctions in Porcine Ciliary Epithelium.** *Investigative Ophthalmology and Visual Science* 59(8):3461-3468. [IF:3.812]
- 22 Lin Z, Yang Z, He B, Wang D, Gao X, Tam SY, Wu VWC. (2018). **Pattern of radiation-induced thyroid gland changes in nasopharyngeal carcinoma patients in first four years after radiotherapy.** *PLoS One* 13(7): e0200310. [IF:2.776]
- 23 Liu R, Liu J, Lao TT, Ying M, Wu X. (2019). **Determination of leg cross-sectional curvatures and application in pressure prediction for lower body compression garments.** *Textile Research Journal* 89(10):1835-1852 [IF:1.613]
- 24 Liu Z, Jin L, Yang JK, Wang B, Wu KKL, Hallenborg P, Xu A, Cheng KKY. (2018). **The Dysfunctional MDM2-p53 Axis in Adipocytes Contributes to Aging-Related Metabolic Complications by Induction of Lipodystrophy.** *Diabetes* 67(11):2397-2409. [IF: 7.199]
- 25 Ma L, Zhang Z, Li J, Yang X, Fei B, Leung PHM, Tao X. (2019). **A New Antimicrobial Agent: Poly (3-hydroxybutyric acid) Oligomer.** *Macromolecular Bioscience* 19:1800432. [IF:2.895]
- 26 Narayana H, Hu J, Kumar B, Shang S, Ying M, Young RJ. (2018). **Designing of advanced smart medical stocking using stress-memory polymeric filaments for pressure control and massaging.** *Materials Science and Engineering: C Materials for Biological Applications* 91:263-273 [IF:4.958]
- 27 Ngan Kee WD, Lee SWY, Ng FF, Khaw KS. (2019). **Prophylactic Norepinephrine Infusion for Preventing Hypotension During Spinal Anesthesia for Cesarean Delivery.** *Obstetric Anesthesia Digest* 126(6):1989-1994. [IF:3.68]
- 28 Njeh CF, Snyder KC, Cai J. (2019). **The use of six degrees of freedom couch is only clinically beneficial in stereotactic radio surgery.** *Medical Physics* 46(2):415-418 [IF:3.177]
- 29 Pan Y, Yang R, Zhang S, Li J, Dai J, Wang J, Cai J. (2019). **National survey of patient specific IMRT quality assurance in China.** *Radiation Oncology* 14(1):69. [IF:2.895]
- 30 Rajwani R, Shehzad S, Siu GKH. (2018). **MIRU-profiler: a rapid tool for determination of 24-loci MIRU-VNTR profiles from assembled genomes of Mycobacterium tuberculosis.** *PeerJ* 6:e5090 [IF:2.353]
- 31 Rangaraj R, Yaddanapudi S, Cai J. (2019). **Transmission detectors are safe and the future for patient-specific QA in radiation therapy.** *Medical Physics* 46(1):1-4 [IF:3.177]
- 32 Sheng K, Pawlicki T, Cai J. (2018). **A career path for pure academic medical physicists in radiation oncology should be established.** *Medical Physics* 45(7):2853-2856 [IF:3.177]
- 33 Suen L, Wang W, Cheng KKY, Chua MCH, Yeung JWF, Koh WK, Yeung SKW, Ho JYS. (2019). **Self-Administered Auricular Acupressure Integrated With a Smartphone App for Weight Reduction: Randomized Feasibility Trial.** *JMIR mHealth and uHealth* 7(5):e14386. [IF:4.301]
- 34 Suen LKP, Guo YP, Tong DWK, Leung PHM, Lung D, Ng MSP, Lai TKH, Lo KYK, Au-Yeung CH, Yu W. (2018) **Self-contamination during doffing of personal protective equipment by health care workers to prevent Ebola transmission.** *Antimicrobial Resistance and Infection Control* 7:157. [IF:3.224]
- 35 Suen LKP, Siu GKH, Guo YP, Yeung SKW, Lo KYK, O'Donoghue M. (2019). **The public washroom - Friend or foe? An observational study of washroom cleanliness combined with microbiological investigation of hand hygiene facilities.** *Antimicrobial Resistance and Infection Control* 8:47 [IF: 3.224]
- 36 Supriya R, Tam BT, Yu AP, Lee PH, Lai CW, Cheng KKY, Yau SY, Chan LW, Yung BY, Sheridan S, Siu PM. (2018). **Adipokines demonstrate the interacting influence of central obesity with other cardiometabolic risk factors of metabolic syndrome in Hong Kong Chinese adults.** *PLoS One* 13(8):e0201585. [IF: 2.766]
- 37 Tam KK, Leung KS, Siu GK, Chang KC, Wong SS, Ho PL, Leung EK, Yam WC. (2019). **Direct detection of pyrazinamide resistance of Mycobacterium tuberculosis using pncA PCR Sequencing.** *Journal of Clinical Microbiology* 57(8). pii: e00145-19 [IF: 4.959]

- 38 Van den Heuvel F, Wu Q, **Cai J**. (2018). **In modern linacs monitor units should be defined in water at 10 cm depth rather than at dmax**. *Medical Physics* 45(11):4789-4792 [IF:3.177]
- 39 Wang B and **Cheng KKY**. (2018). **Hypothalamic AMPK as a Mediator of Hormonal Regulation of Energy Balance**. *International Journal of Molecular Sciences* 19(11). pii: E3552. [IF: 4.183]
- 40 Wang C, Yin FF, Chang Z, **Cai J**. (2019). **A Spatiotemporal-Constrained Sorting Method for Motion-robust 4D-MRI: A Feasibility Study**. *International Journal of Radiation Oncology, Biology, Physics* 103(3):758-766. [IF:6.203]
- 41 Wang J, Chen Y, Zhang C, **Xiang Z**, Ding J, Han X. (2019). **Learning and memory deficits and alzheimer's disease-like changes in mice after chronic exposure to microcystin-LR**. *Journal of Hazardous Materials* 373:504-518. [IF: 7.650]
- 42 Wang J, Chen Y, Zhang C, **Xiang Z**, Ding J, Han X. (2018). **Microcystin-leucine arginine inhibits gonadotropin-releasing hormone synthesis in mice hypothalamus**. *Ecotoxicology and Environmental Safety* 163:391-399. [IF: 4.527]
- 43 Wong NK, **Huang CL**, Islam R, **Yip SP**. (2018). **Long non-coding RNAs in hematological malignancies: translating basic techniques**. *Journal of Hematology and Oncology* 11(1):131. [IF:8.731]
- 44 **Wong SCC**, Au TCC, Chan SCS, Ng LPW, Tsang HF. (2018). **Menstrual blood HPV DNA and TAP1 gene polymorphisms as potential biomarkers for screening and monitoring of cervical squamous intraepithelial lesion**. *Journal of Infectious Diseases* 218(11):1739-1745 [IF:5.045]
- 45 **Wu VW**, Ho YY, Tang YS, Lam PW, Yeung HK, **Lee SW**. (2019). **Comparison of the verification performance and radiation dose between ExacTrac x-ray system and On-Board Imager— A phantom study**. *Medical Dosimetry* 44(1):15-19. [IF:1.123]
- 46 Xu L, Yeung MHY, Yau MYC, Lui PPY, **Wong CM**. (2019). **Role of Histone Acetylation and Methylation in Obesity**. *Current Pharmacology Reports* 5(3): 196-203.
- 47 Yang WJ, Zheng L, Wu XH, Huang ZQ, Niu CB, Zhao HL, Leung TWH, Wong LK, **Chen XY**. (2018). **Postmortem Study Exploring Distribution and Patterns of Intracranial Artery Calcification**. *Stroke* 49(11):2767-2769. [IF:6.046]
- 48 Yau MY, Lu X, **Huang CL**, **Wong CM**. (2018). **Long non-coding RNAs in obesity-induced cancer**. *Non-Coding RNA* 4(3). pii: E19
- 49 Yin X, Wang B, Gan W, Zhuang W, **Xiang Z**, Han X, Li D. (2019). **TFE3 fusions escape from controlling of mTOR signaling pathway and accumulate in the nucleus promoting genes expression in Xp11.2 translocation renal cell carcinomas**. *Journal of Experimental & Clinical Cancer Research* 38(1):119. [IF: 5.646]
- 50 Yu CX, Bortfeld T, **Cai J**. (2019). **In the future, disruptive innovation in radiation oncology technology will be initiated mostly by entrepreneurs**. *Medical Physics* 1949-1952. [IF:3.177]
- 51 Zhang Y, Folkert MR, Li B, Huang X, Meyer JJ, Chiu T, Lee P, Tehrani JN, **Cai J**, Parsons D, Jia X, Wang J. (2019). **4D liver tumor localization using cone-beam projections and a biomechanical model**. *Radiotherapy and Oncology* 133:183-192. [IF:5.252]
- 52 Zheng L, Yang WJ, Niu CB, Zhao HL, Wong KS, Leung TWH, **Chen XY**. (2018). **Correlation of Adventitial Vasa Vasorum with Intracranial Atherosclerosis: A Postmortem Study**. *Journal of Stroke* 20(3):342-349. [IF:5.571]

*HTI staff members are shown in orange. "IF" stands for Impact Factor.

Grants

Internal Grants

Internal Grant for General Research Fund (GRF) / Early Career Scheme (ECS) Proposals Rated 3.5 in the 2018-19 Exercise:

Funding Source	Principal Investigator	Co-Investigator (from PolyU)	Project Title	Funding Supported by Central	Funding Supported by Department
Central Research Grant	Dr LIN Liang-ting	--	Study of MSI1-associated Cytoskeletal Reorganization Enhancing the Tumor Invasiveness in Hypoxic Glioblastoma Multiforme	HK\$200,000	--
	Dr CHENG King Yip	--	The Role of Adipose Tissue Dysfunction in Gut Dysbiosis	HK\$200,000	--
	Dr CHEN Xiangyan	Dr YING Tin Cheung	Delineation of Plaque Components within Intracranial Arterial Lesions: a Clinical Study Combining High-resolution MR Plaque Imaging and Computer Tomography	HK\$200,000	--
Departmental GRF and One-line Budget	Dr WONG Sze Chuen Cesar	Dr TAI Chi Shing	The Diagnostic Significance of CDH17-positive Circulating Tumor Cells and Therapeutic Implication of Targeting CDH17 Protein in Colorectal Cancer: a Pilot Study	--	HK\$100,000
	Dr YING Tin Cheung	Prof. ZHENG Yongping	Development of a 3D Ultrasound System for Automated Segmentation and Quantification of Regional Lymph Node Vascularity to Distinguish Malignant and Benign Lymph Nodes: a Pilot Study	--	HK\$100,000
	Dr CHAN Wing Chi	Dr WONG Sze Chuen Cesar	Dissecting the Role of Radiomic Features in Semantic Characterization and Pathological Classification of Lung Lesions: A Pilot Study	--	HK\$100,000
	Dr HUANG Chien Ling	--	Long Non-coding RNA-mediated Signaling Interactome for Stem/Progenitor Cell-based Vascular Regeneration: A Pilot Study	--	HK\$100,000
	Dr LEE Wee Yee Shara	Dr WU Wing Cheung Vincent	Management of Radiation-induced Dermatitis Using low-level Laser Therapy in Nasopharyngeal Cancer Patients Receiving Chemoradiotherapy: A Randomized, Double-blinded Controlled Trial (MARVEL) - A Pilot Study	--	HK\$100,000
	Dr MA Chun Hang	--	ARRDC3 Regulates Myelopoiesis and Leukemogenesis Through ITGB4: a Pilot Study	--	HK\$100,000

Internal Grant for General Research Fund (GRF) / Early Career Scheme (ECS) Proposals Rated 3.5 in the 2018-19 Exercise: (cont'd)

Faculty Supported Funding:

Funding Source	Principal Investigator	Co-Investigator (from PolyU)	Project Title	Funding Supported by Central	Funding Supported by Department
2018 Griffith University and The Hong Kong Polytechnic University Collaborative Research Grants Scheme (FHSS)	Dr HUANG Chien-Ling	Prof. YIP Shea Ping	Establish Human Pluripotent Stem Cell-derived Bone Marrow-on-a-chip for Studying the Molecular Insights of Myeloproliferative Neoplasms (MPNs)	HK\$100,000	--

The Hong Kong Polytechnic University Postdoctoral Fellowships Scheme 2018:

Funding Source	Principal Investigator	Co-Investigator (from PolyU)	Project Title	Funding Supported by Central	Funding Supported by Department
The Hong Kong Polytechnic University Postdoctoral Fellowship Scheme 2018	Dr CHENG King Yip	Dr MA Chun Hang Dr ZOU Xiang	The Role of Bone Marrow Adipocyte in the Regulation of Immunity	HK\$771,000	--

Start-up Research Fund for New Recruits:

Funding Source	Principal Investigator	Project Title	Amount
Departmental Start-up Fund	Dr TSE Kai Hei	Identification of novel myelin-associated targets for early detection of age-related neurological disorder - from MRI to target molecules	HK\$600,000

* The Start-up Research Fund [also](#) includes a PhD student for each new faculty.

Research Student Attachment Programme 2018/19 (Outgoing PolyU Students: 1st Round):

Funding Source	Principal Investigator	Co-Investigator (from PolyU)	Project Title	Amount
Research Student Attachment Programme 2018/19 (Outgoing PolyU Students:1st Round)	Dr TO Shing Shun Tony	--	Massachusetts General Hospital, USA Mr AZAM Md Zulfikar	HK\$40,000

External Grants

Funding Source	Principal Investigator	Co-Investigator (from PolyU)	Project Title	Total Funding Supported
National Institutes of Health - Ruth L. Kirschstein National Research Service Award Individual Pre-doctoral Fellowship to Promote Diversity in Health-Related Research (Parent F31-Diversity)	--	Dr CAI Jing (Co-I/Co-mentor)	Lung Ventilation Mapping Based on Biomechanical Motion Modeling for Radiation Therapy	US\$44,524
Innovation and Technology Fund - University-Industry Collaboration Programme - Matching Grant for Joint Research	Dr WONG Sze Chuen Cesar	Dr CHAN Wing Chi (Co-I) Dr TAI Chi Shing (Co-I)	Humanized ARB-101 Monoclonal Antibody Targeted Therapy Against Malignant Gastrointestinal Cancers: Proof of Concept Study	HK\$2,300,000
National Natural Science Foundation of China – General Program (面上項目)	Dr WONG Chi Ming	Dr ZOU Xiang (Co-I) Mr HUI Kin Hi (Co-I)	G-protein couple receptor GPR110 as new therapeutic target for obesity-related complications G蛋白偶聯受體GPR110作為肥胖相關併發症新治療靶點的機制研究	HK\$644,100
National Natural Science Foundation of China 重大研究計畫 2018 (i) 生物大分子動態修飾與化學干預、糖脂代謝的時空網路調控	Dr CHENG King Yip	--	The cross-talk between adipose tissue and intestinal system in the regulation of systemic glucose homeostasis 脂肪組織與腸道系統的“時空對話”調控糖代謝的作用與機制研究	HK\$847,500
Innovation and Technology Fund - Midstream Research Programme for Universities (ITF-MRP)	--	Dr LAW Ka Wai Helen (Co-I) Dr LI Li (Co-I)	Low-cost highly sensitive glucose sensors for noninvasive glucose detection	HK\$4,899,874
	--	Dr Dr CHEN Xiangyan (Co-I) Prof. ZHANG Lei (Co-I)	Stroke Risk Assessment System using 3D Ultrasound Imaging of Blood Vessel Abnormalities in Brain and Plaques in Carotid Artery	HK\$6,667,000

External Grants

(Cont'd)

Funding Source	Principal Investigator	Co-Investigator (from PolyU)	Project Title	Total Funding Supported
Health and Medical Research Fund (HMRF) 2017	Dr CAI Jing	--	Evaluation of 4D Diffusion-weighted MRI (4D-DWI) for Stereotactic Body Radiation Therapy (SBRT) of Abdominal Cancers in a Pilot Clinical Trial	HK\$1,223,000
	Dr CHAN Wing Chi	Dr WONG Sze Chuen Cesar (Co-A)	Radiomics-based case retrieval algorithm supported by deep learning of image feature clusters of hepatic pathology in computed tomography	HK\$100,000
	Dr HUANG Chien-Ling	Prof. YIP Shea Ping (Co-A) Dr LEUNG Kim Hung (Co-A) Dr HUI Kin Hi (Co-A)	Evaluating the Diagnostic Yield of Using Low-Pass Whole-Genome Sequencing to Identify Chromosome Abnormalities in Paediatric Patients with Developmental Defects	HK\$1,206,000
	Dr LEUNG Hang Mei Polly	Dr HUI Kin Hi (Co-A)	Interaction between Legionella pneumophila and Biofilm Microbiota	HK\$1,196,800
	Dr MA Chun Hang	--	Studying Kinase-Dependency Profile of Normal and Malignant Hematopoiesis to Identify Leukemic-Specific Kinase Inhibitors Targeting FLT3-ITD Mutation Using Zebrafish Platform	HK\$1,413,000
	Dr WONG Chi Ming	--	Deciphering the Role of Placenta Specific 9 (PLAC9) in Obesity	HK\$1,190,444
Areas of Excellence Scheme 2018/19	--	Dr CHENG King Yip (Co-I) Dr WONG Chi Ming (Co-I)	Institute of Metabolic Medicine	HK\$2,501,000
Hong Kong Scholars Program 2019	Dr CAI Jing	--	Automated MRI-based Radiotherapy Treatment Planning using Artificial Intelligence	(Supported by the Funding Body: HK\$360,000 + Supported by PolyU Central HK\$378,000) HK\$738,000

External Grants

(Cont'd)

Funding Source	Principal Investigator	Co-Investigator (from PolyU)	Project Title	Total Funding Supported
General Research Fund (GRF) 2019/20	Dr CAI Jing	Dr QIN Jing (Co-I)	A Novel Magnetic Resonance Fingerprinting–Based Radiotherapy Treatment Planning Framework for Abdominal Cancers	HK\$1,116,019
	Dr WONG Chi Ming	--	Role of a novel protein CYSTM1 in the regulation of metabolism	HK\$1,046,148
	Dr CHENG King Yip	--	Adipocyte FMO3 and its metabolic product TMAO as new mediators of adipose tissue inflammation and metabolic disorders in ageing	HK\$1,096,303
	Dr WONG Sze Chuen Cesar	Dr TAI Chi Shing (Co-I)	The diagnostic significance of CDH17-positive circulating tumor cells and therapeutic implication of targeting CDH17 protein in colorectal cancer	HK\$897,465
	Dr LIN Liang-ting	--	Deciphering the Mechanism in MSI1-AGO2 Protein-Protein Interaction-Mediated RNA Fate Decisions and Radiosensitivity in Glioblastoma Multiforme	HK\$1,113,960
		Dr CHEN Xiangyan (Co-I)	A blended intervention to promote physical activity, health, and work productivity among office employees using intervention mapping: a cluster-randomized controlled trial	HK\$1,076,226

Sharing by New HTI Academic Staff

Medical Laboratory Science

Dr Franki TSE
Assistant Professor

My journey in science began at HTI, and it is my great honour to return as an investigator and a teacher to serve my Alma mater. Without doubt, all the education and training at the Medical Laboratory Science programme forged the skills and developed the insights I needed for my research career in neuropathology and glial cell biology. I would like to thank all the mentors who effortlessly led me here, and the only way to repay them is to become a good mentor myself.

I am also very grateful to all HTI colleagues for offering efficient support and sharing their previous experiences with me. We will make an excellent team to educate the next generation of medical laboratory scientists and train new investigators for Hong Kong.



Radiography

Mr Vincent LEUNG
Clinical Associate

It is my great honour to have joined HTI as a Clinical Associate. I have joined the Department since December 2018 and just gone through my first semester of teaching here in PolyU.

I had worked in the Princess Margaret Hospital as a Radiation Therapist since 2008. I have learnt a lot of clinical knowledge in my previous experience and I am very glad I can share my clinical skills with students in my new post here at HTI. I would like to thank all the colleagues who have helped me a lot in adapting to this new environment, which is completely different from that in the hospital. I truly enjoy the work and experience in the last semester, and look forward to learning more from the other colleagues in the HTI in the future.



The Hong Kong Polytechnic University
Department of Health Technology and Informatics

Prepared in August 2019
