# Knowledge Exchange

NEWSLETTER

The University of Hong Kong October 2021 Issue 21


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## Innovation and Entrepreneurship


- Developing Bismuth Drugs to Fight COVID-19
- Using AI to Better Serve the Elderly


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# An Action-focused Community-based Study to Advance Equitable Quality Education for All

One early impact of the COVID-19 pandemic was the closure of schools and universities. From February 2020, Hong Kong students of all ages – as well as their teachers and parents – had to adjust very quickly to a new world of online learning.

> *Vast disparities in students' digital literacy competence within and across schools ... had grave implications on the resulting inequities in educational access when all students had to learn online.*

It soon became clear that the challenges of adjusting to online learning were complex and were experienced unevenly throughout the community. A multi-pronged study, titled eCitizen Education 360 (e360), led by Professor Nancy Law of the Faculty of Education and supported by many community organisations was launched in May 2020. The project goal was (1) to understand the impact of the many interlinked factors, including inequities due to multifaceted digital divides, that affect student learning and their wellbeing, and (2) to come up with actionable findings to address challenges faced by students, parents, teachers and school leaders and to lay the foundations for co-creating a better, post-pandemic 'new normal'.

e360 was an offshoot from a five-year longitudinal study 'Learning and Assessment for Digital Citizenship' (eCitizen), funded by the Research Grants Council under the Theme-based Research Scheme. The focus of the eCitizen project was study the impact of digital media on the learning lives of young people and students, and on their development as citizens in a world that is increasingly technology-intensive and globally connected. To achieve this goal, the study developed a set of reliable cutting-edge assessments of digital literacy. "With these instruments, we were able to compare students' digital literacy competence across three age cohorts: primary 3, secondary 1 and secondary 3," said Professor Law.


*Professor Nancy Law was invited by the Hong Kong Federation of Women to present the project findings at the UN Commission on the Status of Women Official Meeting*

*A Symposium was held in July 2021 to review outcomes from community efforts and recommend actions to co-create a better post-pandemic 'new normal'*

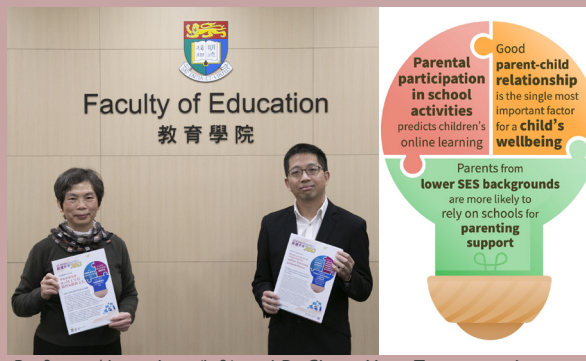
The first assessment was conducted in early 2019. The findings, released in April 2020, showed vast disparities in students' digital literacy competence within and across schools in each of the three age cohorts. Within the same class, some students had minimal digital competence, while some reached high levels of competence. The performance of the secondary students in some schools were lower than those in some primary schools. Such disparity had grave implications on the resulting inequities in educational access when all students had to learn online. The research also found that the divide in digital competence was compounded with inequities in digital access (access to large-screen digital devices and adequate internet connectivity) and family support for e-learning.

Given the challenges associated with continuing educational provisions during extended school suspension, the implications of the eCitizen research findings were widely publicised in the media. Community leaders in many sectors recognised the importance of this research, encouraged and supported us in all stages of the e360 study to reveal the status and diversities in online learning implementation and the complex interacting factors at work. The supporting organisations include professional teacher associations, principal associations, social service organisations, Hong Kong Education City, Cyberport Academy, and the Jockey Club Self-directed learning in STEM Programme. This wide community support was critical in achieving the action-oriented goal of the project.

First, the team decided on a sequencing of the research themes to answer the most immediate and urgent action items. Second, leaders from the supporting organisations interpreted the findings, suggested actions and solutions to respond to the identified issues through e360 seminars, as well as mobilising such knowledge through their own activities and connections. e360 closed with a symposium in July 2021 in which community leaders in different stakeholder groups reviewed the outcomes of the community actions taken and made recommendations for policy and practice in different sectors to achieve the vision for a better new normal in education.

Professor Law had a very important message for parents based on the study findings: The single most important family-level factor influencing a child's wellbeing is to maintain a good parent-child relationship. Take the time for non-judgmental listening, understand and empathise with your child, and help to build your child's self-efficacy in learning.

*Professor Nancy Wai Ying Law and her team members, Professor Ka Ki Catherine Chan, Professor Jimmy de la Torre, Mr Patrick Lam, Dr Min Lan, Miss Qianru Liang, Dr Elizabeth Ka Yee Loh, Dr Qianqian Pan, Professor Nirmala Rao, Dr Frank Reichert, Dr Cheng Yong Tan, Dr Ka Wai Gary Wong and Mr Yuxiao Zhang, received the Faculty Knowledge Exchange Award 2021 of the Faculty of Education for the project 'Co-creating a New Normal of Empowered Learning through Digital Citizenship Research'.*




*Professor Nancy Law (left) and Dr Cheng Yong Tan presenting the fifth batch of research findings from the study focusing on parenting practices and students' wellbeing at home and in school during the pandemic*


*The final project bulletin: a call for evidence-based community-wide action to co-construct a better 'new normal' for educating digital citizens*


*Professor Nancy Law (right) was invited by Zonta Club of Hong Kong to give a talk on findings from the study in November 2020*

# Developing Bismuth Drugs to Fight COVID-19

Under a research led by Professor Hongzhe Sun and team members Dr Hongyan Li and Dr Runming Wang of the Department of Chemistry and Dr Shuofeng Yuan of the Department of Microbiology, a bismuth drug has emerged as a leading source of hope in the fight against COVID-19.

## *Bismuth drugs to fight emerging infectious diseases*

The bismuth drug RBC — ranitidine bismuth citrate — has been found to be potentially effective in the fight against COVID-19, also known as SARS-CoV-2. Bismuth is a brittle, crystalline white metal. Bismuth drugs are among several metal-based drugs that are showing positive results in fighting infections caused by superbugs. While RBC has long been used to treat stomach ailments and ulcers in particular, the potential for drugs based on metal compounds to be used to fight viruses has been largely untapped until now.

RBC acts by stopping the virus from replicating itself inside cells, effectively suppressing the virus and eliminating its symptoms. When tested on hamsters, the drug has been shown to lead to a massive reduction of the viral load in the lungs and nasal cavities. It works by stopping the double strands of COVID-19's DNA from unravelling into single strands, an essential step that enables the virus to replicate itself before it starts infecting other cells.

In the fight against COVID-19, that could make it at least as effective as the new antiviral drug, Remdesivir, which has been in short supply during the pandemic. As it has already been in use for decades, RBC is known to be safe and can be tested in clinical trials faster than new drugs. RBC is also much cheaper to produce than Remdesivir.

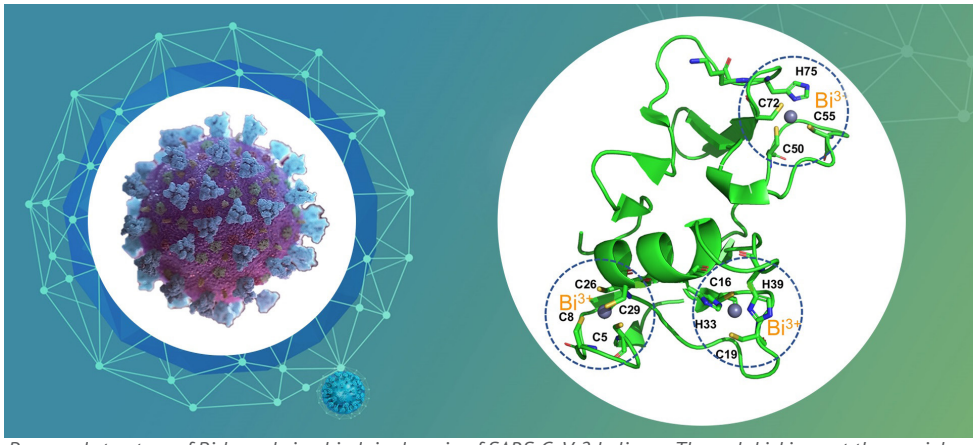

*(From left) Dr Jasper Chan, Dr Shuofeng Yuan, Professor Hongzhe Sun and Dr Runming Wang with the molecular structure of RBC at the press conference on their findings of bismuth drug*

*(From left) Professor Hongzhe Sun's research team: Dr Hongyan Li, Professor Hongzhe Sun, Dr Runming Wang and Dr Shuofeng Yuan*

A related bismuth drug is now being administered orally in the phase 3 clinical trials of COVID-19 patients in China. Once the trials are completed, bismuth-based drug is expected to play a huge role in the fight against the coronavirus globally by expanding the range of therapeutic options to treat the disease, as well as being used to treat other serious diseases. This novel antiviral strategy for treatment of COVID-19 has been published online in a scientific journal *Nature Microbiology*. A related patent has also been filed in the United States.

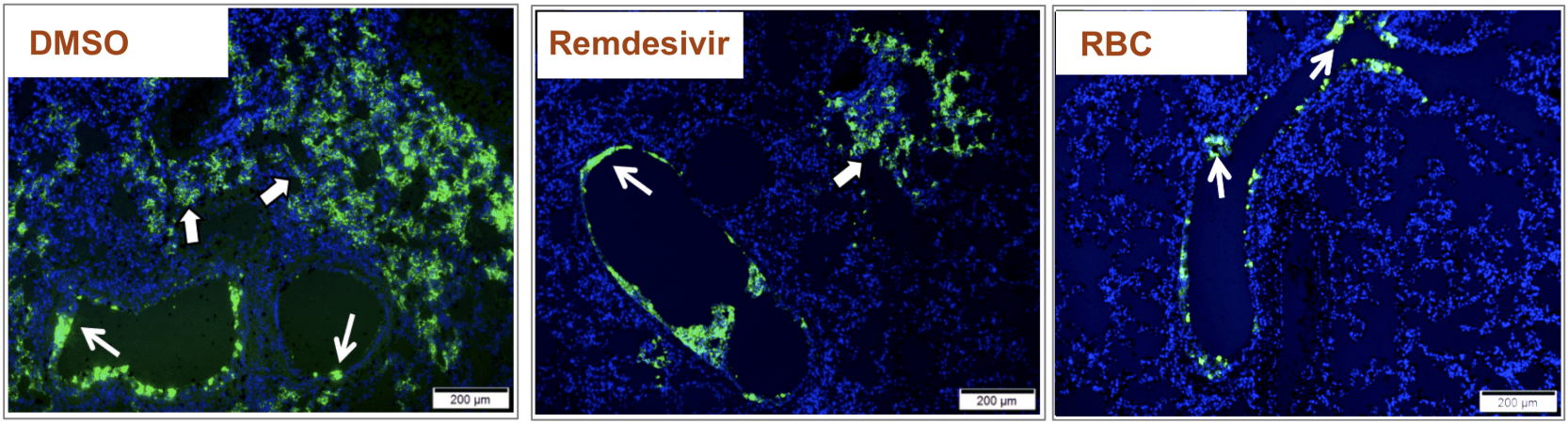
The team is working on adjusting RBC so that it can be injected into the body intravenously to fight the virus in cells.

Professor Sun has been researching bismuth drugs since 2002 when he led a team that examined how bismuth drugs behave in gastric acid and their potential for use against *Helicobacter pylori*, a bacterium that often enters the body during childhood and lives in the digestive tract. The bacteria cause abdominal pain and nausea and is a common cause of peptic ulcers. He moved on to examine how bismuth drugs could be used to fight viruses and how the drugs could act as antimicrobial resistance breakers in the treatment of bacterial infections that are resistant to many drugs.




*Proposed structure of Bi-bound zinc-bindnig domain of SARS-CoV-2 helicase. Through kicking out the crucial zinc(II) ions in the zinc-binding domain of SARS-CoV-2 helicase, RBC demonstrated its ability to potently suppress the replication of SARS-CoV-2*

*Professor Hongzhe Sun and his team members, Dr Hongyan Li and Dr Runming Wang of the Department of Chemistry, and Dr Shuofeng Yuan of the Department of Microbiology, received the Faculty Knowledge Exchange Award 2021 of the Faculty of Science for the project 'Development of Bismuth Drugs for the Treatment of Microbial Infections'.*




*Representative images of the viral N protein distribution in lung tissue sections from infected hamsters treated with DMSO (top), Remdesivir (middle) and RBC (bottom), respectively*

# Using AI to Better Serve the Elderly

Hong Kong is home to a large number of elderly people, many of whom need help for a variety of tasks. Together with his team, Professor Reynold Cheng of the Department of Computer Science has developed a new technology to match volunteer helpers with those who need elderly-care services.

Called 'HINCare: A Heterogeneous Information Network for Elderly-Care Helper Recommendation', the app uses artificial intelligence (AI) technology to match volunteer helpers with the people in need of services. The app is the first mobile app in the market that provides a network database for elders, volunteer helpers and NGOs, and it is designed for easy use by the elderly with features including a voiceover and large font size. Trusted family members can also log on.

> ***By using AI, the administering NGO would be able to use intelligent matching to find out who is the best helper for each task based on the helper's talent, location and time availability.***

The app is based on an intelligent time-banking system which operates in a similar way to a currency for the exchange of services. For example, the task of changing a light bulb may require one hour of a volunteer's time and be worth one credit. By using AI, the administering NGO would be able to use intelligent matching to find out who is the best helper for each task based on the helper's talent, location and time availability.

"We're aiming to build a database with all the helpers' information, then use AI technology to provide matching between volunteers and elders who need help," Professor Cheng explained.

Before the app, records were input manually. Users needed to submit their notebooks to the NGO who then calculated the number of hours by hand. Now, the records are maintained on the cloud and NGOs can check the status instantly.

*Professor Reynold Cheng (middle in the front row) and the HINCare Team*


*Time Bank Bazaar organised by Hong Kong Sheng Kung Hui Tseung Kwan O Aged Care Complex for exchanging crafts and goods with time bank credits earned from the HINCare Time Bank mobile app*

*HINCare team conducting a training workshop on the HINCare platform to staff and community members of Christian Family and Service Centre (CFSC)*


*HINCare Time Bank mobile app awarded the Certificate of Merit in the Asia Smart App Awards 2020 organised by the Hong Kong Wireless Technology Industry Association*

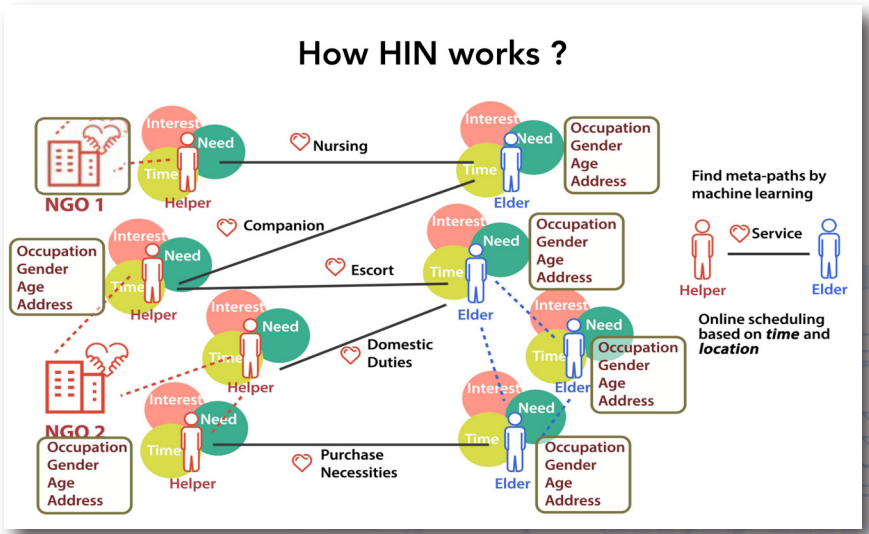
The system was developed based on face-to-face discussions with NGOs who intimately understand the needs of the elderly. The team also wanted to make the system useful for a whole range of NGOs that may require volunteer services, such as those supporting the needs of families. It can be used by all who have a similar need.

NGOs can also use the app to evaluate trends, such as which volunteers prefer to do which services and what activities the elderly like to take part in. This helps NGOs plan their resources more effectively and recruit more volunteers, which in turn helps build community capital, engaging more people to create a better community.

The software is currently used by two of the largest NGOs in Hong Kong – Hong Kong Sheng Kung Hui (SKH) and Christian Family Service Centre (CFSC) serving over 1,000 elders and the team expects to serve about 5,000 in the future.

The platform has already been expanded for use as a platform for the exchange of craft goods made at home, which are exchanged in a big bazaar twice a year. The team plans to extend the range of uses further, including for volunteering services projects in various communities in need and NGOs planning for time bank implementation.

*Professor Chun Kong Reynold Cheng of the Department of Computer Science received the Faculty Knowledge Exchange Award 2021 of the Faculty of Engineering for the project 'HINCare: A Heterogeneous Information Network for Elderly-Care Helper Recommendation'.*

# Using GPS to Support Breastfeeding in the Community

Breastfeeding is recognised as the best way to provide nutrition to babies, but it is not always easy for busy mothers to find an appropriate place to breastfeed their babies when they are outside the home. That is especially true in dense cities such as Hong Kong, where space is always at a premium. Now a breastfeeding GPS app developed by Dr Kris Lok and her team in the School of Nursing can help mothers quickly and easily identify nearby breastfeeding facilities.

Dr Lok and her team found that there was a gap in knowledge in how to effectively support breastfeeding in the community. They decided to respond by developing a user-friendly breastfeeding app as well as building support and awareness in the community in a project called 'Baby-friendly Community Initiative Program – Development of a New Breastfeeding GPS App'. The app was released in September 2020 and had been downloaded more than 4,500 times as of August 2021. It has provided 54,000 searches for useful information about places to breastfeed, including identifying facilities near the user's GPS location and finding facilities in specific locations requested by the user. The app was once ranked third in the Hong Kong app store top chart and has attracted more than 2,000 followers on its Facebook page.

> *A must-have app for every new parent that locating all breastfeeding rooms in Hong Kong at your fingertips*

Knowing that breastfeeding facilities are available enhances mothers' confidence and makes breastfeeding more likely. Known as maternal breastfeeding self-efficacy or BSES, this is defined as a mother's perceived confidence in her ability to breastfeed her child. This influences her breastfeeding decisions and is significantly associated with a longer duration of breastfeeding, which benefits the child and society.


*The Breastfeeding GPS app developed by Dr Kris Lok and her team providing information on breastfeeding facilities*

*Interactive staff training workshops to promote breastfeeding-friendly environment at shopping malls and premises*

*Dr Kris Lok conducting a media interview for promulgating breastfeeding friendly attitudes*

Dr Lok's team has delivered breastfeeding workshops to 821 mothers, of whom 623 reported significantly enhanced BSES.

The team also developed a Baby-Friendly Community Initiative (BFCI) to help improve awareness of the needs of breastfeeding mothers and change behaviour in the community. The initiative is aimed at providing training for management and staff in public places as well as mothers, to support and encourage positive attitudes towards breastfeeding. 66 shopping malls or public venues have joined the programme, resulting in 12 premises adding breastfeeding rooms and 14 shopping malls improving their breastfeeding rooms after completing the programme.

To promote the programme in the community, the team conducted media interviews and held community breastfeeding promotional events at different shopping malls. Significant improvement in both breastfeeding knowledge and staff attitudes to breastfeeding were seen following the workshops.

The team worked with the government, community and business organisations to develop the programmes. These included the Hospital Authority, Department of Health, non-government organisations, Natural Parenting Network and Hong Kong Breastfeeding Mothers' Association. They also worked with shopping malls and restaurants throughout the city.

*Dr Yuet Wan Kris Lok of the School of Nursing received the Faculty Knowledge Exchange Award 2021 of the Li Ka Shing Faculty of Medicine for the project 'Baby-Friendly Community Initiative Program – Development of a New Breastfeeding GPS App'.*

*Dr Kris Lok (second from left) at the 29th International Baby & Children Products Expo, one of the largest maternity events in Hong Kong, to promote the app to participants*

*Recording nearly 1,000 new downloads after the 4-day Expo*


*Not only for parents, nursing students guiding general public to use the app at a promotional event in community*

# Promoting Wellness through Expressive Arts

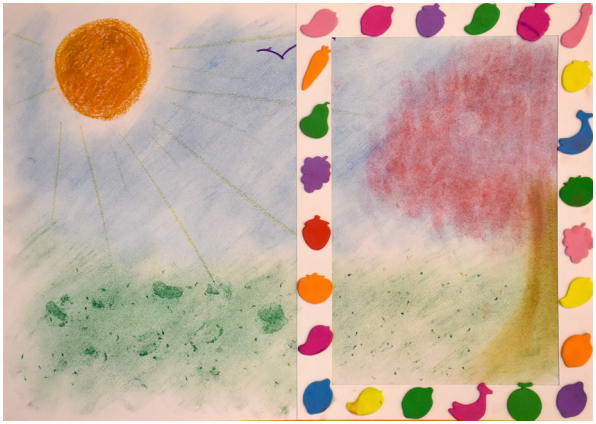
Professor Rainbow Ho and her team in the Department of Social work and Social Administration and the Centre on Behavioral Health have pioneered the application of evidence-based expressive arts-based Intervention (EXABI) in wellness promotion in their project 'Improving Holistic Wellness Across the Lifespan in the Community through Expressive Arts: From Research to Practice'.

Holistic wellness takes wellbeing to another level by focusing on four main aspects: physiological stress, psychological conditions, social and behavioural issues, and spiritual wellness. As one of the holistic wellness modalities, the value of expressive arts in helping people recover from illness, injuries and trauma as well as improving wellbeing has been increasingly recognised around the world. In Hong Kong, the use of expressive arts has resulted in major improvements to the wellbeing of Hong Kong people of all ages, particularly children with special education needs (SEN) and adults with mental health or chronic medical conditions. After EXABI exposure, children with SEN have shown fewer emotional difficulties, hyperactivity and peer problems. Adults suffering from major depressive disorder experienced reduced symptoms and better mental health after taking part in clay art activities. Older adults with mild dementia responded positively after taking part in dance movement activities. Improvements were also seen in cases of chronic conditions including dementia, HIV and intellectual disability.

***The value of expressive arts in helping people recover from illness, injuries and trauma as well as improving holistic wellbeing has been increasingly recognised around the world.***


*Professor Rainbow Ho delivering the project outcomes at the press conference on music and movement intervention for elderly with dementia and its effectiveness in improving their behavioral and psychological symptoms*

*Participants showcasing their artworks created at a professional training workshop on life and death education with expressive arts*



*Artwork created by the elderly in the project 'From Depression to Expression'*

*Professor Rainbow Ho engaging the elderly with a musical instrument in the community*

Over the last five years, the team has worked on many research projects in collaboration with 704 public sector organisations, reaching almost 70,000 beneficiaries. Direct impacts include provision of professional training and supervision to 40 schools for children with SEN, and provision of arts-based therapy in 250 elder care centres, reaching 1,806 elderly people suffering from depression, and providing EXABI to 162 young stroke survivors. In the community, the founding of the Master of Expressive Arts Therapy programme by Professor Ho – the first of its kind in the region – has seen 112 graduates who inspire the community.

The project has helped expressive arts gain acceptance as a viable, reliable and evidence-based option for those at risk of mental health issues as well as healthcare professionals and the general public.

The team has worked closely with the Social Welfare Department to explore the value of arts in community settings in areas from rehabilitation to child and family services. They also worked with the Narcotics Division of the Security Bureau, the Home Affairs Bureau and a wide range of non-government organisations including the Boys' & Girls' Clubs Associations of Hong Kong, the Hong Kong Society for Rehabilitation, YWCA Wan Wah Care and Attention Home for the Elderly, Hong Kong Chinese Christian Churches Union Kwong Yum Care Home, Tung Wah Group of Hospitals, City Contemporary Dance Company, Harmony House, Hong Kong Christian Service, Music Children Foundation, The Sovereign Art Foundation and others.

*Artwork created by an elderly with depressive symptom*

The team's interaction with such a diverse range of NGOs and community partners has spurred the development of a professional community helping professionals combine their clinical work with the arts.

*Professor Rainbow Tin Hung Ho and her team members, Dr Kar Pui Caitlin Chan, Dr Ted Chun Tat Fong and Dr Ho Yin Adrian Wan of the Centre on Behavioral Health, Dr Yu Te Huang and Dr Pui Yan Wong of the Department of Social Work and Social Administration, received the Faculty Knowledge Exchange Award 2021 of the Faculty of Social Sciences for the project 'Improving Holistic Wellness Across the Lifespan in the Community through Expressive Arts: from Research to Practice'.*

# Teaching the Value of Legal Ethics

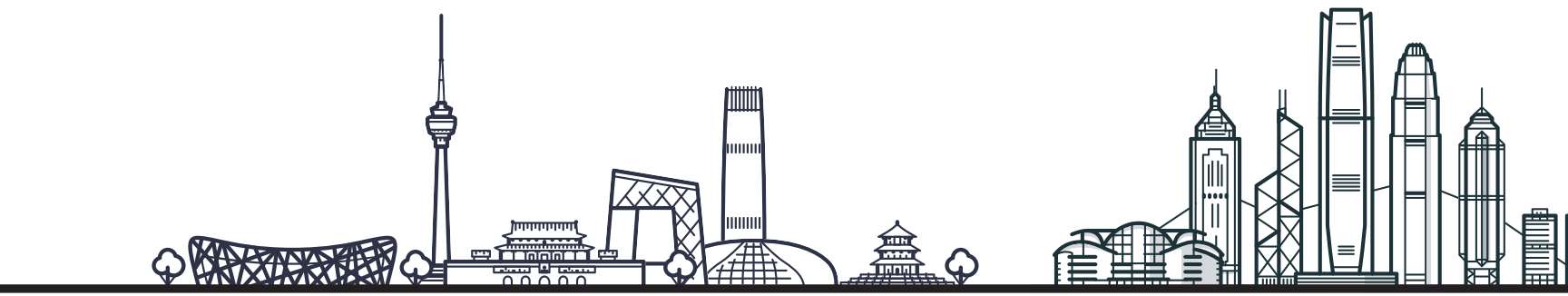
In 2005, Dr Richard Wu of Department of Professional Legal Education organised an international conference on professional legal ethics, which was held consecutively in HKU Faculty of Law and Tsinghua University School of Law. In the past sixteen years, Dr Wu has developed his vision of promoting legal professionalism beyond Hong Kong.

To accomplish such vision of promoting legal professionalism throughout the Greater China Region, Dr Wu undertook an empirical and comparative study of about 1,000 law students across the region to investigate their values and career orientations. He found that law students in Hong Kong, Beijing and Taipei shared a materialistic career orientation, and that all three could improve their legal professionalism by placing more emphasis on legal ethics education in their legal studies.

Rather than considering legal ethics as a matter of rules that must be followed – as was traditionally the case across much of the region – Dr Wu has developed a new model of teaching around the idea that legal ethics should be treated as a matter of values.

***From Greater China Region to Greater Bay Area: Promoting Legal Professionalism Development beyond Hong Kong***

Dr Wu's vision of promoting legal professionalism was key to the development of new legal ethics courses in three major universities in the Greater China Region: School of Transnational Law, Peking University in Mainland China, HKU Faculty of Law in Hong Kong, and National Yang Ming Chiao Tung University School of Law in Taiwan. As an Adjunct Professor in both Mainland China and Taiwan as well as Associate Professor in Hong Kong, he retains close ties with law schools in Greater China Region. Dr Wu's research on the values of law students in the region has promoted awareness of the importance of legal professionalism and helped develop legal ethics education across the Greater China Region and



his courses have been extremely well received by the law students who have taken them. The courses are designed on a value-based experiential learning model that includes innovative use of technology, sharing on legal ethics issues by global lawyers and global law professors, innovative reflective learning and pioneering visual teaching aids.

Students reported higher awareness and more direct engagement with legal professionalism. 100% of students agreed that the courses were extremely useful in helping them understand legal ethics, and 70% said the courses had helped them understand or focus more on legal ethics. More than 80% rated Dr Wu's course as extremely or very good and the same percentage were very satisfied with the course content.

One of a small number of legal scholars globally to have studied common law and Chinese law at both undergraduate and postgraduate levels, Dr Wu studied law at top universities in Hong Kong, London and Beijing. He shared his research findings at international legal ethics conferences and in top academic journals such as *The China Quarterly*. He is also co-authoring a book titled *Good Chinese Lawyers* to be published by Cambridge University Press, which is expected to become a legal ethics textbook for law schools in Greater China Region and Greater Bay Area.

*Dr Richard Wai Sang Wu of the Department of Professional Legal Education received the Faculty Knowledge Exchange Award 2021 of the Faculty of Law for the project 'From Research into Values of Future Lawyers to Promoting Legal Professionalism in Greater China Region: Informing and Implementing Legal Ethics Education in Mainland China, Hong Kong and Taiwan'.*

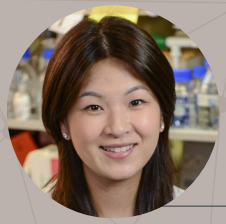
# Announcement

**New Associate Directors of KEO**

I am pleased to announce that we have appointed three new Associate Directors of Knowledge Exchange Office (KEO) who will lead and manage the HKU KE programs with me for this academic year: Professor Wallace Choy, Professor Rainbow Ho and Dr Stephanie Ma. The increase in the number of Associate Directors from one to three signifies the importance attached to KE. My heartfelt gratitude goes to Professor John Bacon-Shone, the previous Associate Director, for his immense contributions to enhancing KE during his tenure at the KEO. With the new Associate Directors on board, the KEO is committed to enhancing the KE efforts of HKU. I'm looking forward to a fruitful year of ever increased quality of the KE programs.

Professor Wallace Choy
Faculty of Engineering

Professor Rainbow Ho
Faculty of Social Sciences



Dr Stephanie Ma
LKS Faculty of Medicine

Best wishes,
Dr Yiwu He
Chief Innovation Officer /
Senior Advisor to the President /
Director of Knowledge Exchange Office

# Virtual HKU Three Minute Thesis (3MT®) Competition 2021

The 3MT Competition is an academic competition that challenges research postgraduate students to explain their research within 3 minutes to a general audience, using only one static PowerPoint slide. The 3MT was developed by The University of Queensland, Australia in 2008. The HKU 3MT Competition has been an annual event jointly organised by the Graduate School and the Knowledge Exchange Office since 2011.

The 3MT Competition 2021 of HKU was successfully held in a virtual format in April - June 2021. This year 18 PhD, MPhil and PD students participated in the competition by submitting their presentation videos to compete for 3 prizes decided by the adjudicating panel and the Online People's Choice Award.

The winners are:

**Champion**
Ms Lu Peng
PhD candidate, Faculty of Engineering
*'A Bubble within a Membrane, a Drop from the Ocean'*
(Primary Supervisor: Professor Chuyang Tang)

**1st Runner-up**
Mr Nicolo Paolo Ludovice
PhD candidate, Faculty of Arts
*'Epidemic Villains? Animal Histories in Human Health'*
(Primary Supervisor: Professor Robert Peckham)

**2nd Runner-up**
Mr Tim King Fai Yung
PhD candidate, Faculty of Arts
*'The Theory of Everything in Chinese Christianity'*
(Primary Supervisor: Dr Peter Anthony Cunich)

**Online People's Choice Award Winner**
Mr Mukesh Kumar
PhD candidate, Faculty of Science
*'Why Endure Allergies When You Can Cure Them?'*
(Primary Supervisor: Professor Billy Kwok Chong Chow)

Watch the presentations of the awardees and candidates on our 3MT website:
https://www.ke.hku.hk/hku3mt/

# Faculty Knowledge Exchange Awards 2021

Warm congratulations to the following colleagues who have won the Faculty Knowledge Exchange (KE) Awards 2021 of their respective Faculties:

**Faculty of Arts:**
Dr Janet Lorraine Borland, School of Modern Languages and Cultures
*'Lessons from Japan: Empowering Children, Promoting Disaster Preparedness, and Helping Communities Recover'*

**Faculty of Business and Economics (HKU Business School):**
Dr Bonnie Hayden Cheng, Faculty of Business and Economics
*'Corporate Wellness 2.0: Enhancing Workplace Wellness during COVID-19'*

**Faculty of Dentistry:**
Dr Duangporn Duangthip and team members – Professor Chun Hung Chu, Professor Edward Chin Man Lo, Professor Cynthia Kar Yung Yiu, Dr Shiqian Gao, Dr Conson Yeung, Dr Zhan Yan Fong, Dr Meng Jiang, Dr Chia-Chia Monica Sung, Dr Mabel Hui Min Tan, Dr Gehui Iliana Yan and Dr Xiaoxue Yin, Faculty of Dentistry
*'Promoting Child Oral Health and Managing Tooth Decay in Preschool Children'*

**Faculty of Education:**
Professor Nancy Wai Ying Law and team members – Professor Ka Ki Catherine Chan, Professor Jimmy de la Torre, Mr Patrick Lam, Dr Min Lan, Miss Qianru Liang, Dr Elizabeth Ka Yee Loh, Dr Qianqian Pan, Professor Nirmala Rao, Dr Frank Reichert, Dr Cheng Yong Tan, Dr Ka Wai Gary Wong and Mr Yuxiao Zhang, Faculty of Education
*'Co-creating a New Normal of Empowered Learning through Digital Citizenship Research'*

**Faculty of Engineering:**
Professor Chun Kong Reynold Cheng, Department of Computer Science
*'HINCare: A Heterogeneous Information Network for Elderly-Care Helper Recommendation'*

**Faculty of Law:**
Dr Richard Wai Sang Wu, Department of Professional Legal Education
*'From Research into Values of Future Lawyers to Promoting Legal Professionalism in Greater China Region: Informing and Implementing Legal Ethics Education in Mainland China, Hong Kong and Taiwan'*

**Li Ka Shing Faculty of Medicine:**
Dr Yuet Wan Kris Lok, School of Nursing
*'Baby-Friendly Community Initiative Program – Development of a New Breastfeeding GPS App'*

**Faculty of Science:**
Professor Hongzhe Sun, Department of Chemistry, and team members – Dr Hongyan Li and Dr Runming Wang, Department of Chemistry; and Dr Shuofeng Yuan, Department of Microbiology
*'Development of Bismuth Drugs for the Treatment of Microbial Infections'*

**Faculty of Social Sciences:**
Professor Rainbow Tin Hung Ho, Department of Social Work and Social Administration, and team members – Dr Kar Pui Caitlin Chan, Dr Ted Chun Tat Fong and Dr Ho Yin Adrian Wan, Centre on Behavioral Health; Dr Yu Te Huang and Dr Pui Yan Wong, Department of Social Work and Social Administration
*'Improving Holistic Wellness Across the Lifespan in the Community through Expressive Arts: from Research to Practice'*

## Finding Experts

The **HKU Scholars Hub** is the University's online expertise directory, which makes HKU researchers and their research visible. It provides an expert finder for businesses, industries, social enterprises, the public sector, and interested student applicants to find HKU experts for contract research, consultancies, and postgraduate student supervision etc.
Please visit the HKU Scholars Hub at https://hub.hku.hk

## Tech Ready

For a complete list of HKU technologies that are currently available, please visit: https://www.tto.hku.hk

## Contact Us

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