

ACADEMIC ACTIVITIES

Prof. Chuxia DENG ranks Top 10 in all highly cited Chinese scholars of the Great China Area

In April, the Google Scholar Citations Database announced its updated list of scholars with high Hirsch index (h-index) (<http://www.webometrics.info/es/node/58>). Prof. DENG with an h-index of 123 is ranked 9th among Chinese scholars in the Great China Area, and No.1 in Cancer. He is the only scholar in Macau who has achieved this prestigious level. The h-index reflects the academic achievement and impact of a scholar by measuring the number of publications of the scholar and how often the publications have been cited. By now, 2610 scholars have achieved an h-index above 100 all over the world, in which 18 Chinese scholars are from the Great China Area. The other Chinese scholars with h-index above 100 in this region include 12 from China, 3 from Hong Kong, 2 from Taiwan. As of May, the h-index of Prof. DENG increased to 124 with a total number of citations of 52563.

Prof. Renhe XU is the Associate Dean (Research) of FHS

Upon the approval by Rector SONG, FHS has appointed Renhe XU as the Associate Dean (Research) for three years.

Prof. XU joined FHS in 2014 as the professor. He obtained his PhD degree from University of Tokyo in Japan and finished his postdoctoral training at the National Institutes of Health (NIH) in USA. He has conducted stem cell research for two decades, and obtained research grants nearly US \$10 million in USA and over MOP \$10 million in Macau. Since joining FHS, he has reported a series of important findings on mesenchymal stem cells derived from human embryonic stem cells for therapeutic applications. He has published more than 60 papers with many in topnotch journals including *Nature Biotechnology* and *Cell Stem Cell* and obtained four patents in USA and filed six so far in Macau. He received a series of awards from NIH, Connecticut State, and Royan Institute of Iran. Recently, he mentored a team composed of students and Macau citizens, and won the first prize in the Bank of China Trophy One Million Dollar Macau Regional Entrepreneurship Competition. His reports were covered by international, national, and local media.

Seminar #14

On 4 May, Prof. Feng GU from the Center for Vision Research, Eye Hospital, Wenzhou Medical University of China delivered a seminar titled "FnCpf1 based genome editing in human cells, it is possible!".

Prof. GU presented his recent research results on optimization of FnCpf1-mediated genome editing in human cells by engineering the coding sequence and direct repeat sequences. And he concluded that next-generation FnCpf1 could be harnessed as a powerful tool for manipulation of human genome.

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B-CAT meeting #15

On 2 May, Dr. Ada Hang-Heng WONG gave her talk at the B-CAT meeting.

Dr. Wong presented the progress and future plan of Cancer Project of FHS. Until now, FHS has collected over 100 paired tumor and blood samples from collaborating hospitals in Macau. The collection of over ten cancer types have been completed, where the most abundant cases were breast cancer, colon cancer and nasopharynx cancer. She also presented her research on the molecular mechanism of anti-cancer drugs and discussed her future plan of studying single cell differential drug response using microfluidic technology.

Publications of the week

1. Sun, K., Yang, Y., Zhou, H., Yin, S., Qin, W., Yu, J., Chiu, D. T., Yuan, Z., Zhang, X., and Wu, C. (2018) Ultrabright Polymer-Dot Transducer Enabled Wireless Glucose Monitoring via a Smartphone. *Acs Nano*
2. Wang, S. B., Wang, Y. Y., Zhang, Q. E., Wu, S. L., Ng, C. H., Ungvari, G. S., Chen, L., Wang, C. X., Jia, F. J., and Xiang, Y. T. (2018) Cognitive behavioral therapy for post-stroke depression: A meta-analysis. *J Affect Disord* 235, 589-596
3. Zheng, W., Yang, W., Zhang, Q. E., Yang, X. H., Cai, D. B., Hu, J. Q., Ungvari, G. S., Ng, C. H., De Hert, M., Ning, Y. P., and Xiang, Y. T. (2018) Meta-analysis of the Efficacy and Safety of Adjunctive Rosuvastatin for Dyslipidemia in Patients with Schizophrenia. *Shanghai Arch Psychiatry* 30, 4-11

STUDENT ACTIVITIES

PhD Oral Defense: Juan YANG

Juan YANG, from Prof. Ren-He XU's lab completed her PhD oral defense on 3 May. Her thesis title is "Universal corneal epithelial-like cells derived from human embryonic stem cells in a defined, xeno-free, and albumin-free condition for cellularization of a corneal scaffold".

During the doctoral studies, She developed a simple method to differentiate human embryonic stem cells (hESC) into corneal epithelial cells (CEC) in E6, a chemically defined, albumin-free medium and re-cellularized acellular murine cornea with hESC-derived CEC, and proved low immunogenicity of CEC differentiated from hESC with knockout of B2M, a subunit for human leukocyte antigen (HLA) class-I. The findings are interesting and significant, remarkably advancing hESC-derived CEC towards clinic for patients with almost any HLA type.



VISITS AND EVENTS

The 1st Macau-Mainland Symposium on Biophotonics 2018

The 1st Macau-Mainland China Symposium on Biophotonics 2018 was successfully held in UM as an annual event in alternating Macau and Mainland China. This symposium was presided by Prof. Zhen YUAN and Prof. Junle QU from Shenzhen University. In the opening ceremony, Prof. Chuxia DENG delivered a welcoming speech. Through the symposium, the close partnership between Mainland and Macau is perfectly established in the field of biophotonics to accelerate this promising scientific collaboration in research and education.



SEMINARS #15

Title: Hitting two birds with one stone: Zika virus NS5 protein suppresses antiviral response but activates gamma interferon signaling

Speaker: Dongyan JIN

School of Biomedical Sciences, University of Hong Kong, Hong Kong

Date: 8 May 2018 (Tue)

Time: 3:00pm

Venue: E12-G003

