

ACADEMIC ACTIVITIES

Publication(s) of the week

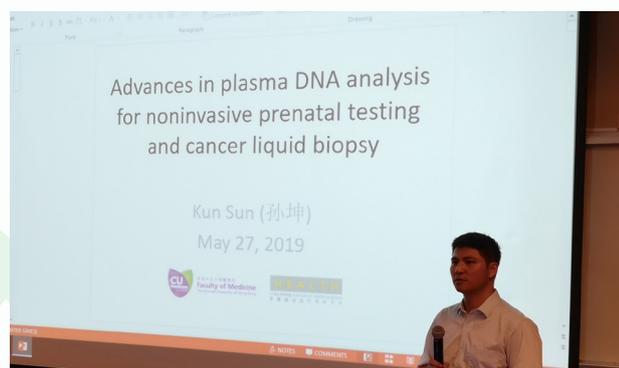
1. Xiang, Y. T., Zhang, Q., Wang, G., Zeng, L. N., and Ungvari, G. S. (2019) Prevalence of Mental Disorders in China. *Lancet Psychiat* **6**, 467-468 [IF=15.152]
2. Cui, M., Ying, R., Jiang, X., Li, G., Zhang, X., Zheng, J., Tam, K., Liang, B., Shi, A., Gobel, V., and Zhang, H. (2019) A Model of Hereditary Sensory and Autonomic Neuropathy Type 1 Reveals a Role of Glycosphingolipids in Neuronal Polarity. *J Neurosci* [IF=6.518]
3. Huang, C., Leng, D., Lei, K. C., Sun, S., and Zhang, X. D. (2019) Transcriptome Analysis Reveals Lncrna-Mediated Complex Regulatory Network Response to DNA Damage in the Liver Tissue of *Rattus Norvegicus*. *J Cell Physiol* [IF=3.83]
4. Wang, F., Wang, S., Zong, Q. Q., Zhang, Q., Ng, C. H., Ungvari, G. S., and Xiang, Y. T. (2019) Prevalence of Comorbid Major Depressive Disorder in Type 2 Diabetes: A Meta-Analysis of Comparative and Epidemiological Studies. *Diabet Med* [IF=3.401]
5. Zhang, M., Heikkinen, L., Knott, K. E., and Wong, G. (2019) De Novo Transcriptome Assembly of a Facultative Parasitic Nematode *Pelodera* (Syn. *Rhabditis*) *Strongyloides*. *Gene* [IF=2.217]
6. Dong, M., Lu, L., Zhang, L., Zhang, Y. S., Ng, C. H., Ungvari, G. S., Li, G., Meng, X., Wang, G., and Xiang, Y. T. (2019) Quality of Life in Schizophrenia: A Meta-Analysis of Comparative Studies. *Psychiatr Q* [IF=1.382]

Seminar Series

Advances in Plasma DNA Analysis for Noninvasive Prenatal Testing and Cancer Liquid Biopsy - Prof. Kun SUN

Prof. Kun SUN, Research Assistant Professor and Bioinformatician, Department of Chemical Pathology, The Chinese University of Hong Kong, presented a talk on “Advances in Plasma DNA Analysis for Noninvasive Prenatal Testing and Cancer Liquid Biopsy” on 27 May.

Prof. SUN introduced the basis and recent research advances of plasma cell-free DNA analysis based noninvasive prenatal testing and cancer liquid biopsy. Prof. SUN also shared how his team developed a novel method for Down Syndrome test that they were able to reconstruct the fetal genome as well as epigenome with high accuracy from the plasma DNA of pregnant women. Moreover, Prof. SUN presented how he demonstrated several hallmarks of the tumour such as copy number aberration and global hypomethylation could be detected in the plasma of cancer patients, which could be used to diagnose cancer. Last but not least, Prof. SUN showed how he mined a variety of plasma DNA fragmentation characteristics through statistical analysis of high sequencing depth plasma DNA data. He finally concluded that his research showed clinical utility in both noninvasive prenatal testing and cancer liquid biopsy.



Seminar Series

A Re-evaluation of Macrolides as Quorum Sensing Inhibitors for Biofilm Control - Prof. Liang YANG

Prof. Liang YANG, Professor, School of Medicine, Southern University of Science and Technology, presented a talk on “A Re-evaluation of Macrolides as Quorum Sensing Inhibitors for Biofilm Control” on 29 May.

Prof. YANG’s team developed an approach involving pulsed stable isotope labeling with amino acids (pulsed-SILAC) proteomics to selectively label and systematically examine the colistin sensitive and resistant subpopulations of a *P. aeruginosa* biofilm. Prof. YANG claimed that such approach revealed that quorum sensing (QS) plays a role in the development of colistin-resistant subpopulations. Moreover, he demonstrated that macrolides which target the Gac/Rsm regulatory system are able to fully suppress *P. aeruginosa* quorum sensing, as well as the development of colistin-resistant subpopulations in biofilms.

Prof. YANG finally concluded that the expression of *msrE* in *P. aeruginosa* could abolish the macrolide-mediated QS inhibition *in vitro* and the anti-*Pseudomonas* effect of macrolides *in vivo*.

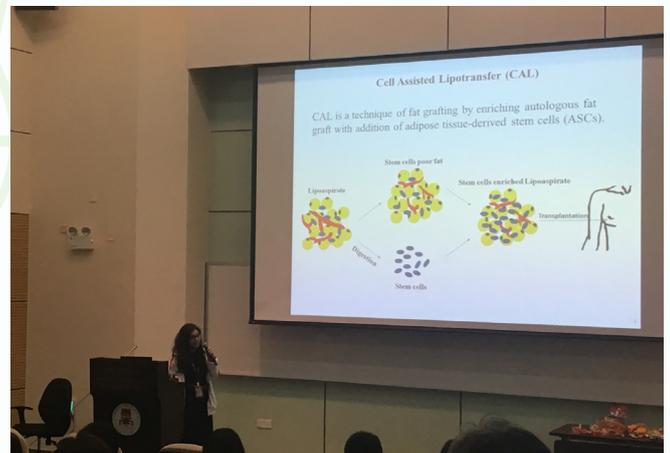
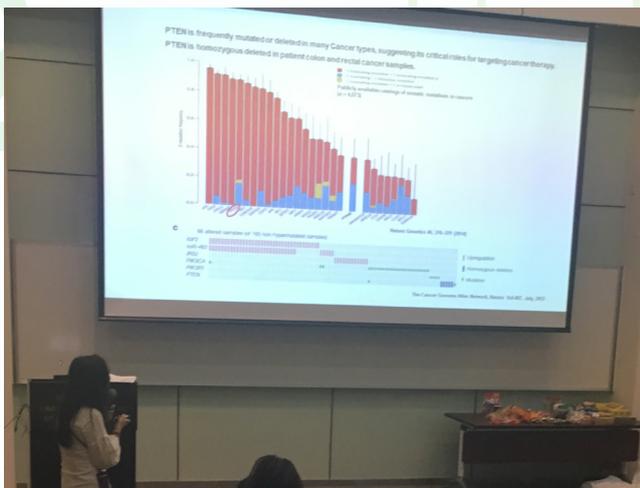


STUDENT ACTIVITIES

FHS Postdoc Student Seminar - Presented by Prof. Kin TAM’s group and Prof. Yunlu DAI’s group

On 30 May, Ms. Roma BORKAR of Prof. Renhe XU’s group presented “Fat Engraftment Promoted by MSC Differentiated from Human Embryonic Stem Cells” and Ms. Yifan LIU of Prof. Joong Sup SHIM’s group presented “PTEN Deficiency Confers Colorectal Cancer Cell Resistance to Dual Inhibitors of FLT3 and Aurora Kinase A”.

The next seminar will be held on 27 June and presented by the group members of Prof. Gang LI and Prof. Henry KWOK.



UM Congregation 2019

On 25 May, 22 FHS undergraduate students attended the UM Congregation 2019. Three of them have already decided to continue pursue a Ph.D. study.

Congratulate and wish them a bright future!



HIGH SCHOOL VISIT

On 29 May, 35 F4 students from Chan Sui Ki Perpetual Help College visited FHS. Prof. William CHAO received them, guided them for a lab tour and showed them the research facilities in FHS. Prof. CHAO also introduced the academic programmes and research directions of FHS to the students. The students were very excited and showed their interests in biomedical sciences.



6th Macau Symposium on Biomedical Sciences 2019



FHS is going to have the 6th Macau Symposium on Biomedical Sciences 2019 on 12 and 13 June, 2019. The theme of this year's symposium is INNOVATION. Let's join together!

For details, please refer to the related information posted on the website: <https://msbs2019.fhs.umac.mo/>.

Sponsors for the 6th Macau Symposium on Biomedical Sciences 2019

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MAY / JUNE				
Mon	Tues	Wed	Thurs	Fri
3	4	5 B-CAT Meeting #11 Speaker: Dr. Kai MIAO Time: 17:00 Venue: E12-G004	6	7 Tuen Ng Festival
10 Qualify Examination Mr. Pengchen CHEN Supervisor : Prof. Henry KWOK Time: 15:00 Venue: E12-4004	11	12 6th Macau Symposium on Biomedical Sciences Time: 09:00-18:40 Venue: HD	13 Time: 09:00-18:10 Venue: HD	14
17 Seminar Series Potential Roles of β -amyloid in an Animal Model of Temporal Lobe Epilepsy Host: Prof. Wenhua ZHENG Time: 15:00-16:00 Venue: E12-G004	18	19 B-CAT Meeting #12 Speaker:Kaeling Tan Time: 17:00 Venue: E12-G004	20	21