

ACADEMIC ACTIVITIES

B-CAT Meeting #11

On 21 Feb, Dr. Kai MIAO gave his talk at B-CAT Meeting entitled “Mechanistic study of oncogenic driver NOTCH1 and the targeted therapy for BRCA1 associated breast cancer”.

He introduced the transposon mutagenesis system disentangle genetic drivers that cooperate with mutant BRCA1 in breast cancer progression and demonstrate a potent candidate gene — Notch1 for BRCA1 related mammary gland tumorigenesis. He also introduced Notch1 gene's function during BRCA1 mutant mammary tumor formation and its mechanism of the oncogenic function of Notch1. He suggested that the pharmacological inhibition of the Notch1 signalling represents an effective strategy to treat triple negative breast cancer.

Publications of the week

1. Afroz, R., Cao, Y. N., Rostam, M. A., Ta, H., Xu, S. W., Zheng, W. H., Osman, N., Kamato, D., and Little, P. (2018) Signalling pathways regulating galactosaminoglycan synthesis and structure in vascular smooth muscle: Implications for lipoprotein binding and atherosclerosis. *Pharmacol Therapeut*
2. Chang, K. W., Liu, Y. B., Hu, D. H., Qi, Q. F., Gao, D. Y., Wang, Y. T., Li, D. L., Zhang, X. J., Zheng, H. R., Sheng, Z. H., and Yuan, Z. (2018) Highly Stable Conjugated Polymer Dots as Multifunctional Agents for Photoacoustic Imaging-Guided Photothermal Therapy. *Acs Appl Mater Inter*
3. Chen, X., Yang, C., Xie, S. L., and Cheung, E. (2018) Long non-coding RNA GAS5 and ZFAS1 are prognostic markers involved in translation targeted by miR-940 in prostate cancer. *Oncotarget* 9, 1048-1062
4. Deng, H. L., Zeng, J. M., Zhang, T., Gong, L. C., Zhang, H. J., Cheung, E., Jones, C., and Li, G. (2018) Histone H3.3K27M Mobilizes Multiple Cancer/Testis (CT) Antigens in Pediatric Glioma. *Mol Cancer Res*
5. Fu, X. F., Jiang, B., Zheng, B. R., Yan, Y. P., Wang, J. F., Duan, Y. C., Li, S. S., Yan, L., Wang, H., Chen, B. B., Sang, X. B., Ji, W. Z., Xu, R. H., and Si, W. (2018) Heterogenic transplantation of bone marrow-derived rhesus macaque mesenchymal stem cells ameliorates liver fibrosis induced by carbon tetrachloride in mouse. *Peerj* 6, e4336
6. Park, J. W., Yang, J., and Xu, R. H. (2018) Paired Box Protein 6 Alternative Splicing and Corneal Development. *Stem Cells Dev*
7. Qi, H., Liu, Z., Cao, H., Sun, W. P., Peng, W. J., Liu, B., Dong, S. J., Xiang, Y. T., and Zhang, L. (2018) Comparative efficacy of antihypertensive agents in salt-sensitive hypertensive patients: a network meta-analysis. *Am J Hypertens*
8. Xiao, L., Correll, C., Feng, L., Xiang, Y. T., Feng, Y., Hu, C. Q., Li, R., and Wang, G. (2018) Rhythmic low-field magnetic stimulation may improve depression by increasing brain-derived neurotrophic factor. *CNS Spectr*, 1-9
9. Ye, J.Z., Su, Y.B., Lin, X.M., Lai, S.S., Li, W.X., Ali, F., Zheng, J., and Peng, B. (2018) Alanine Enhances Aminoglycosides-Induced ROS Production as Revealed by Proteomic Analysis. *Front Microbiol* 9, 29
10. Zhang, H. H., Wei, Z. Y., Xia, Y., Fang, M., Zhu, W. J., Yang, X. Y., Li, F., Tian, Y. P., Zhang, X. J., and Zhou, H. P. (2018) Exploration research on synthesis and application of a new dye containing di-2-picolylamine. *Spectrochim Acta A: Mol Biomol Spectrosc* 196, 256-261
11. Zheng, W., Zhang, Q. E., Cai, D. B., Yang, X. H., Qiu, Y., Ungvari, G. S., Ng, C. H., Berk, M., Ning, Y. P., and Xiang, Y. T. (2018) N-acetylcysteine for major mental disorders: a systematic review and meta-analysis of randomized controlled trials. *Acta Psychiat Scand*

5th Macau Symposium on Biomedical Sciences 2018

The Macau Symposium on Biomedical Sciences is an annual event and is the hallmark event of FHS. This Symposium has attracted almost 1,000 participants in the past few years.

The Faculty is going to organize the "5th Macau Symposium on Biomedical Sciences 2018" on **8 and 9 Jun 2018**. The theme of the event this year is "Precision". The symposium will soon call for poster application. Please stay tuned.

STUDENT ACTIVITIES

Call for Poster Submission: 2nd Symposium on Biomedical Sciences for Students, Post-doctoral Fellows, and Research Assistants

There are three topics in this symposium, which include but not limited to the following:

- Topic 1: Neuroscience
- Topic 2: Reproduction, Aging, and Development
- Topic 3: Cancer

Submission deadline for poster: **15 Mar 2018**

SEMINARS #6 and #7

Title: Vibrational spectroscopy in life sciences: from cells to tissues

Speaker: Valter SERGO

Department of Engineering and Architecture,
University of Trieste, Italy

Date: 26 Feb 2018 (Mon)

Time: 3:00 - 4:00 pm

Venue: E12 - G004

Title: Upconversion and metal phenolic nanoparticles for cancer theranostics

Speaker: Yunlu DAI

National Institute of Biomedical Imaging and
Bioengineering

National Institutes of Health, USA

Date: 27 Feb 2018 (Tue)

Time: 10:00 – 11:00 am

Venue: E12 - G004

B-CAT Meeting #12

Dr. Kaeling Tan is going to deliver her talk at the upcoming B-CAT meeting on **28 Feb (Wed)**.