

Academic Activities

Seminar: Series #58

On 2 Jan, Prof. Benyi LI from the University of Kansas Medical Center delivered a seminar entitled “Metabolic Disruption for Cancer Therapy”.

With Biotin-Avidin pulldown assay coupling with mass spectrometry technology, 26 Alternol-interacting proteins were identified by Prof. Li including five key enzymes engaged in glucose metabolism and mitochondrial tricarboxylic acid cycle. He discussed the investigation strategies and significance as well as Alternol’s potential implication as a therapeutic cancer drug on the seminar.



B-CAT: Meeting #9

On 3 Jan, Prof. Garry WONG gave his talk at B-CAT Meeting.

He highlighted the development of two emerging aspects of miRNA function: 1) the existence of alternative/non-canonical forms termed “isomiRs”, that are structurally different and include additions, subtractions, or modifications; and 2) “arm-switching” in which the more highly expressed “dominant” form of the two miRNA arms becomes the less expressed “minor form”. Preliminary data obtained in his laboratory by post-doctoral fellow Liang Chen, where he detected isomiRs and arm-switching in different cancer types was presented and their significance was elaborated.

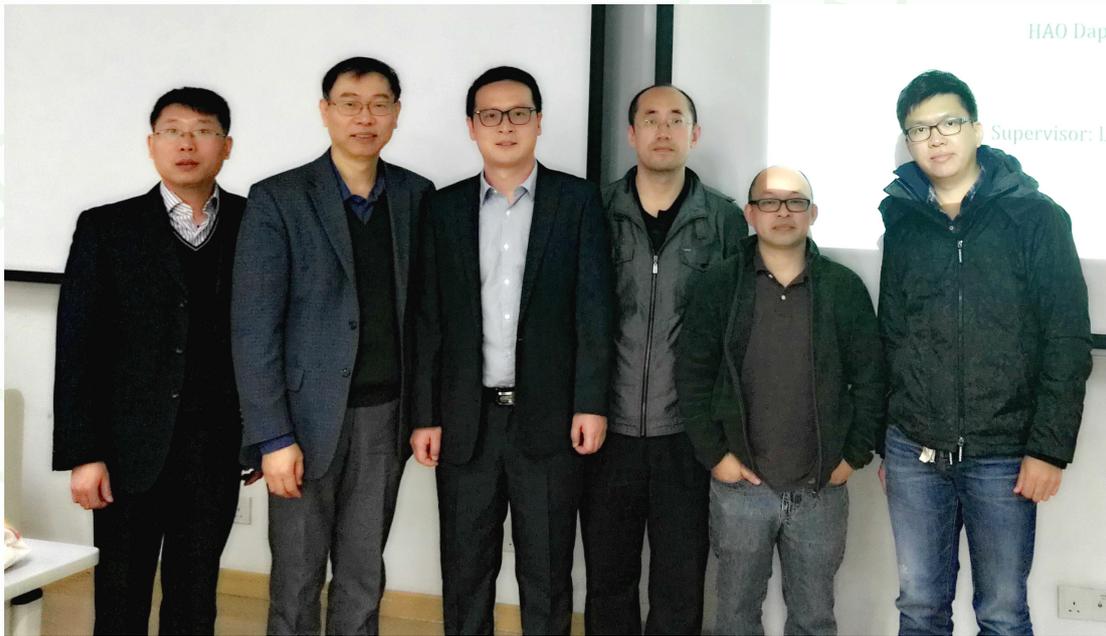
Publications of the Week

1. Chen, J.; Zaidi, S.; Rao, S.; Chen, J. S.; Phan, L.; Farci, P.; Su, X.; Shetty, K.; White, J.; Zamboni, F.; Wu, X.; Rashid, A.; Pattabiraman, N.; Mazumder, R.; Horvath, A.; Wu, R. C.; Li, S.; Xiao, C.; Deng, C. X.; Wheeler, D. A.; Mishra, B.; Akbani, R.; Mishra, L., Analysis of Genomes and Transcriptomes of Hepatocellular Carcinomas Identifies Mutations and Gene Expression Changes in the Transforming Growth Factor-beta Pathway. *Gastroenterology* 2018, 154 (1), 195-210.
2. Dong, M.; Wang, S. B.; Li, Y.; Xu, D. D.; Ungvari, G. S.; Ng, C. H.; Chow, I. H. I.; Xiang, Y. T., Prevalence of suicidal behaviors in patients with major depressive disorder in China: A comprehensive meta-analysis. *J Affect Disord* 2018, 225, 32-39.
3. Li, T.; Wu, N. Y.; Song, N.; Mok, G. S. P., Evaluation of sequential SPECT and CT for targeted radionuclide therapy dosimetry. *Ann Nucl Med* 2018, 32 (1), 34-43.
4. Liao, R.; Yan, F.; Zeng, Z.; Wang, H.; Qiu, K.; Xu, J.; Zheng, W., Insulin-like growth factor-1 activates PI3K/Akt signalling to protect human retinal pigment epithelial cells from amiodarone-induced oxidative injury. *Br J Pharmacol* 2018, 175 (1), 125-139.
5. Liu, S.; Li, K.; Gao, Y.; Liu, X.; Chen, W.; Ge, W.; Feng, Q.; Palli, S. R.; Li, S., Antagonistic actions of juvenile hormone and 20-hydroxyecdysone within the ring gland determine developmental transitions in *Drosophila*. *Proc Natl Acad Sci U S A* 2018, 115 (1), 139-144.
6. Wang, C.; Saar, V.; Leung, K. L.; Chen, L.; Wong, G., Human amyloid beta peptide and tau co-expression impairs behavior and causes specific gene expression changes in *Caenorhabditis elegans*. *Neurobiol Dis* 2018, 109 (Pt A), 88-101.
7. Zheng, W.; Li, X. H.; Yang, X. H.; Cai, D. B.; Ungvari, G. S.; Ng, C. H.; Wang, S. B.; Wang, Y. Y.; Ning, Y. P.; Xiang, Y. T., Adjunctive memantine for schizophrenia: a meta-analysis of randomized, double-blind, placebo-controlled trials. *Psychol Med* 2018, 48 (1), 72-81.
8. Zhou, F. C.; Wang, Y. Y.; Zheng, W.; Ungvari, G. S.; Ng, C. H.; Yuan, Z.; Xiang, Y. T., Prospective memory in bipolar disorder: A meta-analysis. *Psychiatry Res* 2018, 259, 184-190.

Student Activities

PhD Oral Defense: **Dapeng HAO**

Dapeng HAO, from Prof. Lijun DI's lab completed his PhD oral defense on 4 Jan. His thesis title is "Integrated analysis of ovarian cancer: implications on tissue origin, hormone therapy and immunotherapy". His interesting findings on ovarian cancer tissue origin was published on Clinical Cancer Research with a SCImPact factor of 9.6 in 2017. More academic papers are expected in leading journals recently. Hao has committed to continue his postdoctoral training in Baylor College of Medicine, a world renowned biomedical research institute in USA.



Other Notifications

Call for Research Grant Application : **22 Jan 2018**

R&DAO has called for application for Jointly Funded Scientific Research Project by NSFC and FDCT. The deadline for proposal submission to R&DAO is on or before **22 Jan 2018**. For further details, please refer to the related email.

Innovation and Entrepreneurship

In the recruitment of incubation teams for Innovation and Entrepreneurship organized by Institute of Collaborative Innovation of University of Macau, seven teams from FHS have successfully entered into the second round of assessment. The team leaders are listed as below:

Professor: Renhe XU, Terence Chuen Wai POON, Jun ZHENG

Macao Fellow: Ada, Hang Heng WONG

PhD Student: Yubin LIU, Jie LIU, Shixue SUN

Next Week: PhD Oral Defense

Fong Ha IEONG

Date: 9 Jan 2018 (Tue)

Time: 14:00 - 16:40

Venue: E12 - G004

Title: Cortical Connectomics
Signature for Opiate addiction
during Recovery:
A Multidisciplinary, Exploratory,
and Translational Paradigm

Yubin LIU

Date: 11 Jan 2018 (Thu)

Time: 10:00 - 12:40

Venue: E12 - G004

Title: Development of
Quantitative Photoacoustic
Tomography Imaging Systems for
Disease Detections from Bench to
Bedside

Henrique Coutinho Povoas Esteves Das NEVES

Date: 12 Jan 2018 (Fri)

Time: 14:00 - 16:40

Venue: E12 - G004

Title: The Prognostic Significance
and Therapeutic Potential of
MCM10 and Related Transcription
Factors Cdt1 and Cdc6 in Breast
Cancer