

5th MACAU SYMPOSIUM

The 5th Macau Symposium on Biomedical Sciences was held on 08 - 09 June 2018

The 5th Macau Symposium was held successfully at UM on 8 and 9 June 2018. This year, the theme of the symposium is PRECISION. Nobel Laureate in Chemistry 2009, Ada YONATH and 2017 Lasker-DeBakey Clinical Medical Research Award recipient, Douglas LOWY were invited as the keynote speakers.

Prof. DENG delivered a welcome speech. He introduced the development and achievement of the symposium and FHS. He also expressed his gratitude to the Macau government and the UM leadership.

The symposium attracted over 360 participants including many renowned scholars from all over the world. A total of 30 topics were presented in two days and the topics covered many aspects, such as cancer biology, stem cell technology, genome-editing, development, aging, and precision medicine. The speakers shared their most updated research progresses and discussed the methods and technologies on Biomedical Sciences in details.

The symposium provides a good platform for researchers to communicate and cooperate. It is also a good opportunity for FHS students and researchers to know the cutting-edge research and learn from the most famous scientists in the world.



The ceremony for the conferment of Honorary Degree and UM's Doctor *honoris causa* lecture of Professor Ada YONATH

On 9 June 2018, the ceremony for the conferment of Honorary Degree on Prof. Ada YONATH was held at UM. She is the recipient of the Nobel Laureate in Chemistry in 2009. Prof. YONATH is currently the member of FHS Advisory Board.

Prof. Chuxia DENG delivered the citation for Prof. Ada YONATH at the ceremony. The secretary for social affairs and culture and representative of UM's chancellor, Tam Chon WENG, presented the honorary degree, in the company of UM's University Council Chair Lam Kam SENG and UM Rector Yonghua SONG.

After the ceremony, Prof. YONATH delivered a Doctor *honoris causa* lecture titled "Next Generation Species Specific Eco Friendly Antibiotics and Thoughts About Origin of Life". She introduced the structure and function of ribosome, protein synthesis process, the pathway of antibiotic action, the resistance mechanism of bacteria. She stressed that the resistance to antibiotics is a severe problem in modern society. She believes that it is fully possible to improve the efficiency of antibiotics. She urged the pharmaceutical companies to consider human aspects, not only profits.



Best Poster Award for the 5th Macau Symposium on Biomedical Sciences 2018

The five recipients of the “Best Poster Award” for the 5th Macau Symposium on Biomedical Sciences 2018 are as follows:

Awardee	Name of Supervisor	Poster Title
Yifan LIU	Joong Sup SHIM	Synthetic lethality screening identifies AKT activation as a key regulator in drug resistance of PTEN-deficient colorectal cancer to dual inhibitors of AURKA and FLT3
Ting ZHANG	Gang LI	Investigation of the biological significance of Tet2 phosphorylation mediated by AMPK
Ya MENG	Guokai CHEN	Nicotinamide promotes cell survival and differentiation as kinase inhibitor in human pluripotent stem cells
Ming ZHAO	Chuxia DENG	Genome-scale CRISPR screen in vivo identifies GeneX as a tumor suppressor of cholangiocarcinoma in Smad4&Pten deficient mice
Liguo DONG	Koon Ho WONG Chris	Coordinated regulation of gluconeogenesis, glyoxylate bypass and TCA cycle genes through promoter specific cooperation among AcuK, AcuM and FacB in <i>Aspergillus nidulans</i>

Let's congratulate them again.



ACADEMIC ACTIVITIES

B-CAT meeting #19

On 6 Jun, Prof. Ruiyu XIE gave her talk at the B-CAT meeting titled “The role of PRDMs in pancreatic ductal adenocarcinoma”.

Prof. XIE presented that the roles of PRDM family proteins throughout the course of PDAC initiation and progression. She first determined the expression profiles of PRDM3 and PRDM16 in metaplastic, dysplastic, neoplastic and malignant pancreatic lesions. Using acinar specific conditional knockout mice *in vitro* 3D ADM formation system. She illustrated that PRDM3 was dispensable for PanIN and PDAC developments. However, both PRDM3 and PRDM16 were required to maintain cellular identification during the oxidative stress and inflammatory process.

Publication of the week

1. Wang, J., Yuan, Z., and Zhang, Y. (2018) Alternative translation initiation from two in-frame start codons in DHX33 gene. *Biochem Biophys Res Commun*
2. Wei, R., Wong, J. P. C., Lyu, P., Xi, X., Tong, O., Zhang, S. D., Yuen, H. F., Shirasawa, S., and Kwok, H. F. (2018) In vitro and clinical data analysis of Osteopontin as a prognostic indicator in colorectal cancer. *J Cell Mol Med*
3. Liang, T. T., Zhao, Q., He, S., Mu, F. Z., Deng, W., and Han, B. N. (2018) Modeling Analysis of Potential Target of Dolastatin 16 by Computational Virtual Screening. *Chem Pharm Bull (Tokyo)* 66, 602-607
4. Lu, L., Wang, S. B., Rao, W., Zhang, Q., Ungvari, G. S., Ng, C. H., Kou, C., Jia, F. J., and Xiang, Y. T. (2018) The Prevalence of Sleep Disturbances and Sleep Quality in Older Chinese Adults: A Comprehensive Meta-Analysis. *Behav Sleep Med*, 1-15
5. Xiang, Y. T., Ng, C. H., Yu, X., and Wang, G. (2018) Rethinking progress and challenges of mental health care in China. *World Psychiatry* 17, 231-232
6. Sun, H., Miao, Z., Zhang, X., Chan, U. I., Su, S. M., Guo, S., Wong, C. K. H., Xu, X., and Deng, C. X. (2018) Single-cell RNA-Seq reveals cell heterogeneity and hierarchy within mouse mammary epithelia. *J Biol Chem* 293, 8315-8329

OTHER NOTIFICATIONS

Scientific and Technological R&D Award for Postgraduates 2018

Our PhD student Dapeng HAO, from Prof. Lijun DI's lab, was awarded “Scientific and Technological R&D Award for Postgraduates 2018” by FDCT.

He did a great job during his PhD study at FHS. His findings are published on *Clinical Cancer Research* with an impact factor of 9.6. He now continues his academic training in Baylor College of Medicine, USA.

VISITS AND EVENTS

Lab visit by Chan Sui Ki Perpetual Help College

The students of Chan Sui Ki Perpetual Help College and their teachers visited FHS on 5 June 2018. Prof. William CHAO introduced FHS education programmes and research directions, followed by a lab tour. The students were very excited and showed their interests in Biomedical Sciences.



B-CAT MEETING #20

Prof. Wenhua ZHENG will give his talk at the upcoming B-Cat meeting on 20 June 2018.

