

## ACADEMIC ACTIVITIES

### Publication(s) of the week

1. Sang, W., Zhang, Z., Dai, Y., and Chen, X. (2019) Recent Advances in Nanomaterial-Based Synergistic Combination Cancer Immunotherapy. *Chem Soc Rev* [IF=41.27]
2. Tan, J., Wang, C., Lao, H. K., Wang, W., Feng, G., Yuan, D., Wu, C., and Zhang, X. (2019) Spiro[Pyrrol-Benzopyran]-Based Probe with High Asymmetry for Chiroptical Sensing Via Circular Dichroism. *Chem Commun (Camb)* [IF=6.064]
3. Zhang, T., Guan, X., Choi, U. L., Dong, Q., Lam, M. M. T., Zeng, J., Xiong, J., Wang, X., Poon, T. C. W., Zhang, H., Zhang, X., Wang, H., Xie, R., Zhu, B., and Li, G. (2019) Phosphorylation of Tet2 by Ampk Is Indispensable in Myogenic Differentiation. *Epigenetics Chromatin* **12**, 32 [IF=5.519]
4. Hu, Z., Zhang, J., Zhang, L., Xiang, Y. T., and Yuan, Z. (2019) Linking Brain Activation to Topological Organization in the Frontal Lobe as a Synergistic Indicator to Characterize the Difference between Various Cognitive Processes of Executive Functions. *Neurophotonics* **6**, 025008 [IF=4.319]
5. Lu, L., Dong, M., Zhang, L., Zhu, X. M., Ungvari, G. S., Ng, C. H., Wang, G., and Xiang, Y. T. (2019) Prevalence of Suicide Attempts in Individuals with Schizophrenia: A Meta-Analysis of Observational Studies. *Epidemiol Psychiatr Sci*, 1-10 [IF=4.565]
6. Wang, J., Feng, W., Yuan, Z., Weber, J. D., and Zhang, Y. (2019) Dhx33 Interacts with Ap-2beta to Regulate Bcl-2 Gene Expression and Promote Cancer Cell Survival. *Mol Cell Biol* [IF=4.486]
7. Zheng, W., Zhu, X. M., Zhang, Q. E., Cai, D. B., Yang, X. H., Zhou, Y. L., Ungvari, G. S., Ng, C. H., He, S. H., Peng, X. J., Ning, Y. P., and Xiang, Y. T. (2019) Adjunctive Memantine for Major Mental Disorders: A Systematic Review and Meta-Analysis of Randomized Double-Blind Controlled Trials. *Schizophr Res* [IF=4.08]
8. Guo, Y., Lei, I., Tian, S., Gao, W., Hacer, K., Li, Y., Wang, S., Liu, L., and Wang, Z. (2019) Chemical Suppression of Specific C-C Chemokine Signaling Pathways Enhances Cardiac Reprogramming. *J Biol Chem* **294**, 9134-9146 [IF=4.253]
9. Rao, W. W., Zeng, L. N., Zhang, J. W., Zong, Q. Q., An, F. R., Ng, C. H., Ungvari, G. S., Yang, F. Y., Zhang, J., Peng, K. Z., and Xiang, Y. T. (2019) Worldwide Prevalence of Falls in Older Adults with Psychiatric Disorders: A Meta-Analysis of Observational Studies. *Psychiatry Res* **273**, 114-120 [IF=2.572]
10. Wu, G., Meng, X., Zheng, P., Zhang, X. H. D., Li, L., Hu, H., and Sun, B. (2019) Elevated Serum Levels of Periostin in Patients with Allergic Bronchopulmonary Aspergillosis. *Mycoses* [IF=2.495]
11. Li, Y., Hou, C. L., Ma, X. R., Zang, Y., Jia, F. J., Lai, K. Y. C., Ungvari, G. S., Ng, C. H., Cai, M. Y., and Xiang, Y. T. (2019) Nicotine Dependence in Community-Dwelling Chinese Patients with Schizophrenia. *Gen Psychiatr* **32**, e100014 [IF=2]

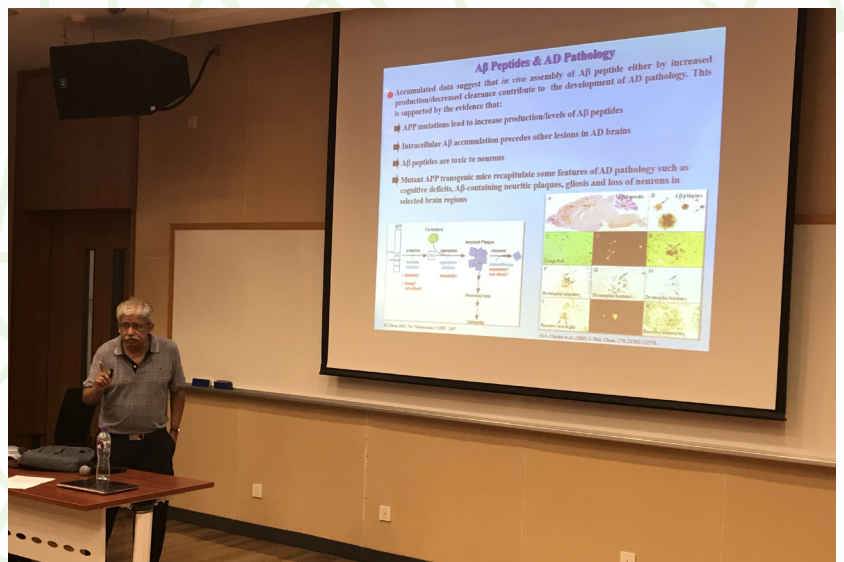
## Seminar Series

### Potential Roles of $\beta$ -amyloid in an Animal Model of Temporal Lobe Epilepsy - Prof. Satyabrata KAR

Prof. Satyabrata KAR, Professor of University of Alberta, presented a talk on “Potential Roles of  $\beta$ -amyloid in an Animal Model of Temporal Lobe Epilepsy” on 10 June.

Prof. KAR introduced the Kainic acid (KA), an analogue of the excitatory neurotransmitter glutamate, in the seminar. KA can trigger seizures and neurotoxicity in the hippocampus and other limbic structures in a manner that mirrors the neuropathology of human temporal lobe epilepsy (TLE). Since amyloid- $\beta$  (A $\beta$ ) peptides, which play a role in Alzheimer's Disease, can mediate toxicity by activating glutamatergic NMDA receptors, it is likely that the enhanced glutamatergic transmission that renders hippocampal neurons vulnerable to KA treatment may involve A $\beta$  peptides. Thus, Prof. KAR started his research on KA and A $\beta$  to establish what role A $\beta$  plays in KA-induced toxicity.

Prof. KAR systemically injected KA on adult rats and the injection triggered seizures, gliosis and loss of hippocampal neurons, along with increased levels/processing of amyloid precursor protein (APP), resulting in the enhanced production of A $\beta$  peptides. This implied a role for astrocytic A $\beta$  in KA-induced toxicity. Prof. KAR finally concluded that the results indicated that increased production/secretion of A $\beta$  peptides from activated astrocytes can contribute to neurotoxicity in KA-treated rats. Since KA administration can lead to neuropathological changes resembling TLE, it is likely that APP/A $\beta$  peptides derived from astrocytes may have a role in TLE pathogenesis.

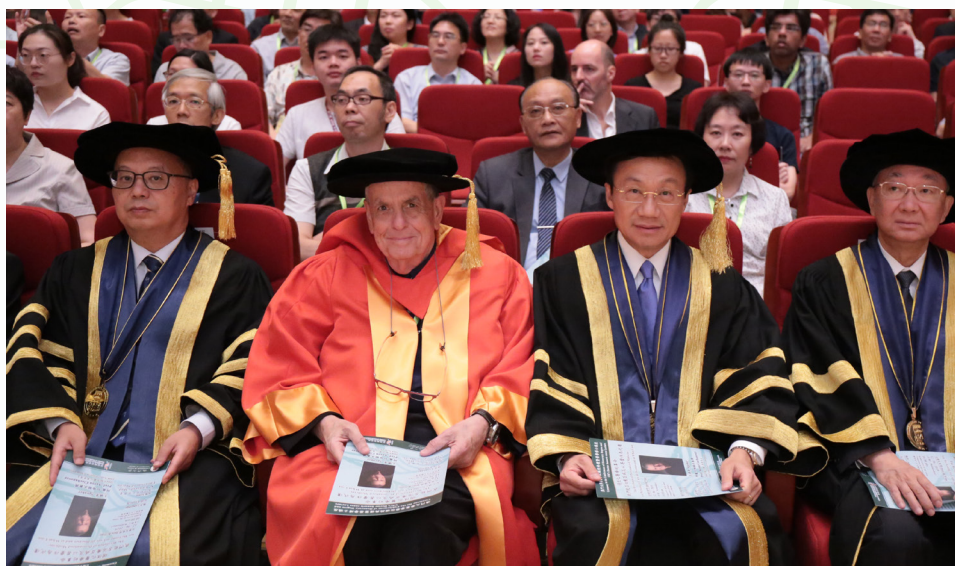




### Events

#### Ceremony for the Conferment of Honorary Degree

The University of Macau conferred a Doctor of Science *honoris causa* degree on the Nobel Laureate in Chemistry, Prof. Aaron Ciechanover, in recognition of his outstanding contribution to basic scientific research on 12 June. After the ceremony, Prof. CIECHANOVER gave a lecture titled “The Revolution of Personalised Medicine: Are We Going to Cure all Diseases and at What Cost”, and attracted the attendance of many experts, scholars, faculty members, researchers and students from China and abroad.





### 6<sup>th</sup> Macau Symposium on Biomedical Sciences 2019

FHS hosted the two-day 6<sup>th</sup> Macau Symposium on Biomedical Sciences 2019 on 12-13 June. UM's University Council Chair Dr. Kam Seng LAM, Rector Yonghua SONG, and Dean Chuxia DENG attended the opening ceremony. Prof. SONG and Prof. DENG delivered the welcome remarks. 47 world-renowned scholars and experts in biomedical sciences shared their latest research findings in the symposium.

The symposium featured 40 talks including precision medicine in cancer treatment, cancer immunology, translational medicine research, etc., and attracted over 400 people including experts, scientists and researchers in the field as well as teachers and students from UM and local secondary schools.

125 researchers presented their research posters during the symposium and 8 of them received the "Best Poster Award". They are Dong JIANG from Tsinghua University, Changshun HOU from City University of Hong Kong, Zhongsheng ZANG from Shenzhen Institute of Advanced Technology Chinese Academy of Sciences and Bo ZHU, Shan YU, Linjing SHEN and Yang YANG from FHS. Congratulations!





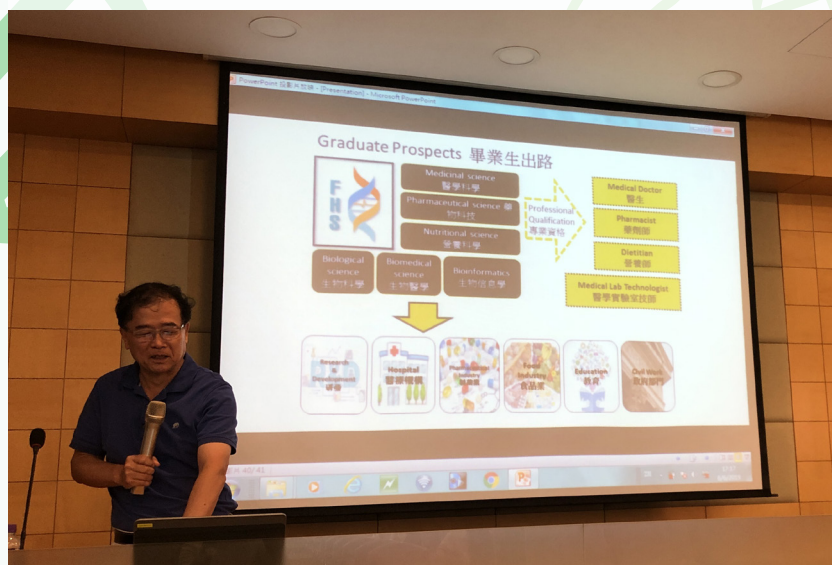




### Activities

#### High School Talk - Prof. Sanming WANG

On 6 June, Prof. Sanming WANG presented a talk "Can Cancer be Inherited?" at Kao Yip Middle School. He also promoted the FHS academic programmes to the students.



JUNE / JULY				
Mon	Tues	Wed	Thurs	Fri
17	18	19	20	21
	<b>Qualify Examination</b> Mr. Bin HUANG Supervisor : Prof. Kathy LUO Time: 10:00 Venue: E12-1017  <b>Qualify Examination</b> Mr. Shixue SUN Supervisor : Prof. Douglas ZHANG Time: 13:00 Venue: E12-1015	<b>B-CAT Meeting #12</b> Speaker: Prof. Chris WONG Time: 17:00 Venue: E12-G004		
24	25	26	27	28
<b>Qualify Examination</b> Mr. Shiyin ZHAO Supervisor : Prof. Xuanjun ZHANG Time: 13:00 Venue: E12-4004  <b>Qualify Examination</b> Ms. Jing LIU Supervisor : Prof. Zhen YUAN Time: 15:00 Venue: E12-4004  <b>Qualify Examination</b> Mr. Zixiang WEI Supervisor : Prof. Xuanjun ZHANG Time: 17:00 Venue: E12-4004			<b>FHS Postdoc/ Student Seminar</b> Host: Prof. Gang LI and Prof. Henry KWOK Time: 17:00-18:00 Venue: N22-G002	
1	2	3	4	5
		<b>B-CAT Meeting #13</b> Speaker: Prof. Lijun DI Time: 17:00 Venue: E12-G004		<b>Qualify Examination</b> Ms. Xia ZHAO Supervisor: Prof. Wenhua ZHENG Time: 10:00 Venue: E12-1017