

ACADEMIC ACTIVITIES

Publication(s) of the week

1. Li, S. S., Ip, C. K. M., Tang, M. Y. H., Tang, M. K. S., Tong, Y., Zhang, J., Hassan, A. A., Mak, A. S. C., Yung, S., Chan, T. M., Ip, P. P., Lee, C. L., Chiu, P. C. N., Lee, L. T. O., Lai, H. C., Zeng, J. Z., Shum, H. C., and Wong, A. S. T. (2019) Sialyl Lewis(X)-P-Selectin Cascade Mediates Tumor-Mesothelial Adhesion in Ascitic Fluid Shear Flow. *Nat Commun* **10**, 2406 [IF=13.691]
2. Zhao, X., Fang, J., Li, S., Gaur, U., Xing, X., Wang, H., and Zheng, W. (2019) Artemisinin Attenuated Hydrogen Peroxide (H₂O₂)-Induced Oxidative Injury in SH-SY5Y and Hippocampal Neurons Via the Activation of Ampk Pathway. *Int J Mol Sci* **20** [IF=3.878]
3. Li, L., Lok, K. I., Mei, S. L., Cui, X. L., Li, L., Ng, C. H., Ungvari, G. S., Ning, Y. P., An, F. R., and Xiang, Y. T. (2019) Sleep Duration and Self-Rated Health in Chinese University Students. *Sleep Breath* [IF=2.319]

B-CAT Meeting - Dr. Kai MIAO

At the B-CAT meeting on 5 June, Dr. Kai MIAO introduced his latest research work. BRCA1 mutation carriers suffer higher risk of developing triple-negative breast cancer (TNBC), which is a refractory disease due to its non-responsiveness to current clinical targeted therapies. Using the Sleeping Beauty transposon system in BRCA1-deficient mice, Dr. MIAO's team identified 169 putative cancer drivers, among which NOTCH1 serves as an oncogene accelerating tumor formation by promoting epithelial-mesenchymal transition (EMT) and regulating cell cycle progression. The activation of NOTCH1 also suppressed mitotic catastrophe caused by BRCA1 deficiency through restoring S/G2 and G2/M cell cycle checkpoints by activating a non-canonical target ATR-CHK1 signalling pathway. They found that the activation of NOTCH1 markedly enhanced TNBC formation in their mouse model, meanwhile, the analysis of human clinical database revealed a strict correlation between TNBC incidence and elevated expression of NOTCH1, consistent with a view that NOTCH1 serves as a potent driver for TNBC formation. Finally, Dr. MIAO demonstrated that the inhibition of the NOTCH1-ATR-CHK1 cascade could revive mitotic catastrophe and enhance the tumoricidal activity for TNBC with cisplatin. Dr. MIAO believes that this finding provides a potent clinical option for this deadly disease.

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/>.

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MAY / JUNE				
Mon	Tues	Wed	Thurs	Fri
10	11	12	13	14
<p>Qualify Examination Mr. Pengchen CHEN Supervisor : Prof. Henry KWOK Time: 15:00 Venue: E12-4004</p> <p>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</p>	<p>Qualify Examination Mr. Kefang LIU Supervisor : Prof.Chuxia DENG Time: 14:00 Venue: N22-4028</p>	<p>6th Macau Symposium on Biomedical Sciences</p> <p>Time: 09:00-18:40 Time: 09:00-18:10 Venue: N2 U Hall Venue: N1 Multi-function Hall</p>		
17	18	19	20	21
	<p>Qualify Examination Mr. Bin HUANG Supervisor : Prof.Kathy LUO Time: 10:00 Venue: E12-1017</p> <p>Qualify Examination Mr. Shixue SUN Supervisor : Prof. Douglas ZHANG Time: 13:00 Venue: E12-1015</p>	<p>B-CAT Meeting #12 Speaker: Dr. Kaeling TAN Time: 17:00 Venue: E12-G004</p>		
24	25	26	27	28
			<p>FHS Postdoc/ Student Seminar Host: Prof. Gang LI and Prof. Henry KWOK Time: 17:00-18:00 Venue: N22-G002</p>	