

# NEWSLETTER ISSUE 32 13 -17 AUGUST 2018

### **ACADEMIC ACTIVITIES**

### **B-CAT Meeting #24 Recap**

In B-CAT meeting on 15 Aug, Prof. Xiaoling XU presented her work on searching for the driver genes for BRCA1-related breast cancer progression and metastasis by using single cell genome sequencing and CRISPR library screening. She believed that the identification of the driver genes and the pathways involved could provide valuable information for precision medicine to fight against this deadly disease.

### **Publications of the week**

- 1. Fu, A., Peh, Y. M., Ngan, W., Wei, N., and Luo, K. Q. (2018) Rapid identification of antimicrometastases drugs using integrated model systems with 2D monolayer, 3D spheroids and zebrafish xenotransplantation tumors. *Biotechnol Bioeng*
- 2. Wu, C., Lyu, J., Yang, E. J., Liu, Y., Zhang, B., and Shim, J. S. (2018) Targeting AURKA-CDC25C axis to induce synthetic lethality in ARID1A-deficient colorectal cancer cells. *Nat Commun* **9**, 3212
- 3. Zhang, D., Pretorius, P. H., Ghaly, M., Zhang, Q., King, M. A., and Mok, G. S. P. (2018) Evaluation of different respiratory gating schemes for cardiac SPECT. *J Nucl Cardiol*

# Seminar Series Metabolomics and antibiotic-resistant bacteria

Prof. Xuanxian PENG, Professor of Sun Yat-Sen University shared his recent work on the metabolic state of antibiotic-resistant *E. tarda*, and demonstrated that exogenous alanine or glucose reverts the bacterium to kanamycin susceptibility. The study establishes novel functional metabolomics-based strategy to manage infection by antibiotic-resistant bacteria.



## **Oral Defense**



# PhD Oral Defense by Mr. Zheng YANG of Prof. Kin Yip TAM's group

Mr. Zheng YANG, supervised by Prof. Kin Yip TAM, completed his PhD Oral Defense on 14 August 2018 (Tuesday). The title of his thesis is "Anti-cancer synergy of targeting pyruvate dehydrogenase kinase 1 (PDK1) in combination with EGFR-TKi in NSCLC therapy".

The results of the thesis indicate that treatments studied affected cellular metabolism, such as PDK1 suppression, in combination with EGFR-TKi, and may be potential strategies for NSCLC therapy in future.



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### **FHS News**

#### FHS welcomes new students for 2018-2019

On 15 August, FHS kicked off the new school year with a series of orientation programmes to welcome new students. The Faculty members and FHS student association representatives presented materials on the history and achievements of the Faculty, exciting collaborative programmes and tips on how to strive in the Faculty. The new students appreciated the warm welcome and are motivated to start this new chapter of their lives.











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### **Press Coverage**

Press coverage: GCS, Taichung, Today Macao, Jornal "Va Kio", Ho Kong Daily















AUGUST/ SEPTEMBER				
Mon	Tues	Wed	Thurs	Fri
mechanisms behind	New Student Welcome Reception Time: 10:00 Venue: E12 Learning Common	22	PhD Oral Defense Ms. Junfang LYU Time: 15:00 Venue: N6-G010	Seminar Series Discovery of New Targets of Bioactive Small Molecules and Validation in vivo by Mass Spectrometry Imaging Prof. Ho Jeong KWON Time: 11:00-12:00 Venue: E12-G004
27	The Promises and Challenges of Non- coding RNA Studies in Neurodegenerative Diseases Prof. Hermona SOREQ Time: 11:00-12:00	Seminar Series Dissection of the role of cell type specific histamine receptors in central nervous system disorders Prof. Zhong Chen Time: 10:30-12:00 Venue: TBC		31
3		5 B-CAT Meeting #25 Prof. Wei GE Time: 17:00 Venue: TBC	6	7
10	11	12	13	14