健康科學學院
Faculdade de Ciências da Saúde
Faculty of Health Sciences

NEWSLETTER ISSUE 1
30 DECEMBER 2019 - 3 JANUARY 2020

ACADEMIC ACTIVITIES

Publication(s) of the week

1. Lin, G. W., Xu, C., Chen, K., Huang, H. Q., Chen, J., Song, B., Chan, J. K. C., Li, W., Liu, W., Shih, L. Y., Chuang, W. Y., Kim, W. S., Tan, W., Peng, R. J., Laurensia, Y., Cheah, D. M. Z., Huang, D., Cheng, C. L., Su, Y. J., Tan, S. Y., Ng, S. B., Tang, T. P. L., Han, K., **Wang, V. Y.**, Jia, W. H., Pei, Z., Li, Y. J., Gao, S., Shi, Y., Hu, Z., Zhang, F., Zhang, B., Zeng, Y. X., Shen, H., He, L., Ong, C. K., Lim, S. T., Chanock, S., Kwong, Y. L., Lin, D., Rothman, N., Khor, C. C., Lan, Q., Bei, J. X., and International, N. W. G. (2019) Genetic Risk of Extranodal Natural Killer T-Cell Lymphoma: A Genome-Wide Association Study in Multiple Populations. *Lancet Oncol* **[IF=33.831]**

2. Song, W., Lu, H., Wu, K., Zhang, Z., Shuk-Wa Lau, E., and **Ge, W.** (2019) Genetic Evidence for Estrogenicity of Bisphenol A in Zebrafish Gonadal Differentiation and Its Signalling Mechanism. *J Hazard Mater* **386**, 121886 **[IF=7.336]**

3. Ozsahin, I., Sekeroglu, B., and **Mok, G. S. P.** (2019) The Use of Back Propagation Neural Networks and 18F-Florbetapir PET for Early Detection of Alzheimer's Disease Using Alzheimer's Disease Neuroimaging Initiative Database. *PLoS One* **14**, e0226577 **[IF=3.337]**

New academic members of FHS

Prof. Hanming SHEN and Prof. Wa Kam CHANG newly joined the faculty as Chair Professor and Assistant Professor respectively on 2 Jan.

Prof. SHEN obtained his Bachelor of Medicine and Master of Medicine from Zhejiang Medical University, China in 1985 and 1988, respectively. He then obtained his Ph.D. from National University of Singapore (NUS) in 1996 and received his postdoctoral training in NUS and in the National Cancer Institute (NCI), NIH, USA. His main research interests include (i) Autophagy and lysosome in cancer cell biology, (ii) Mitophagy: novel mechanisms and biological importance in health and disease, and (iii) Cancer metabolism and targeted therapy. He has published more than 190 research papers and co-edited the book "*Necrotic Cell Death*" (Humana Press, 2014; with Peter Vandenabeele). His work is also highly cited, with more than 24,000 total citations and H-Index at 79. Besides, he currently serves as the Associate Editor for *Autophagy*, and Academic Editor for *PLOS ONE* and Supervising Editor for *Aging Cell*. Moreover, he has received NUS-School of Medicine Research Excellence Award (2007 and 2015), as well as the Researcher of the Year Award -2019, and the NUS Medicine Graduate Mentor of The Year (GRAMAY) Award-2019. His office is E12-3037 and he can be reached at ext. 4984 and via email hmshen@um.edu.mo.

Prof. CHANG obtained his Bachelor of Science from Peking University, China, Master of Philosophy and Ph.D. from Yale University, USA. He then received his postdoctoral training at Yale University, USA and Columbia University, USA. His main research interests include (i) How cell polarization is driven by the cytoskeleton, (ii) Elucidating the roles of nuclear envelope proteins in regulating cell polarization, (iii) Identifying aging-associated secretory factors that affect cell polarity, and (iv) Deciphering the molecular mechanism of polarity-related aging factors. He has published 13 research papers including *Cell* and *Nature*. Moreover, he is the journal reviewer of *Communication Biology*. His office is E12-3016 and he can be reached at ext. 4986 and via email wakamchang@um.edu.mo.

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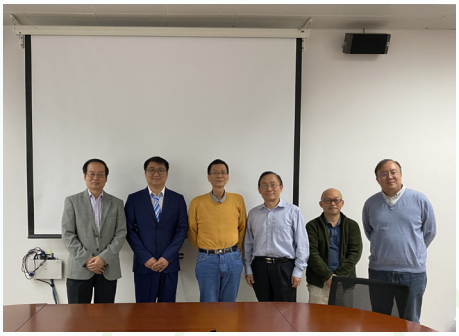
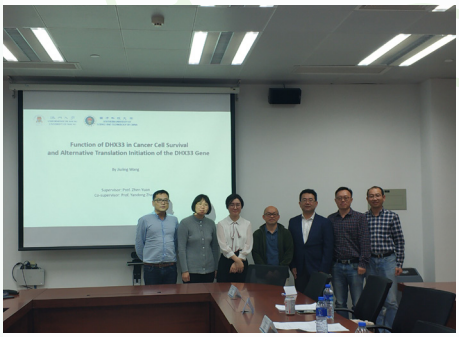
PhD ORAL DEFENSE

PhD Oral Defenses by Kun WU of Prof. Wei GE's group and Jiuling WANG of Prof. Zhen YUAN's group

Mr. Kun WU supervised by Prof. Wei GE and Ms. Jiuling WANG supervised by Prof. Zhen YUAN completed their PhD oral defenses on 2 January. Their thesis titles are "Genetic Analysis of Transcription Factors (Dmrt1), Growth Factors (Gsdf) and Estrogens (Cyp19a1a) in Zebrafish Gonadal Differentiation and Development" and "Function of DHX33 in Cancer Cell Survival and Alternative Translation Initiation of the DHX33 Gene", respectively.



Mr. WU established the dmrt1 and cyp19a1a double mutant zebrafish (dmrt1-/-;cyp19a1a-/-) and he discovered that the introduction of the dmrt1 mutation into the cyp19a1a mutant could rescue the all-male phenotype of the latter. He reported that despite the lack of aromatase/estrogens, the follicles in the ovary of rescued cyp19a1a mutant could develop normally up to previtellogenic stage. The molecular evidence suggested that drmt1 is activated in advance in gsdf overexpression fish, and this indicated that gsdf positively regulated dmrt1 and promoting the male fate.



Ms. WANG reported her discovery about the interaction of DHX33 with transcription factor AP-2β to stimulate Bcl-2 transcription. She found that DHX33 knockdown decreased the expression of Bcl-2, and caused mitochondria-mediated apoptosis in cancer cells while normal cells were less sensitive to DHX33 knockdown. Thus, she believed that the disruption of DHX33 might be important for the cancer therapy. Moreover, she discovered that DHX33 protein was a doublet and found that the shorter DHX33 and full-length DHX33 had similar cellular locations and functions. She believed that this was a safeguard mechanism to ensure optimal DHX33 translation efficiency.

UM Open Day

UM Open Day to be held on Sunday 12 Jan

UM will hold the UM Open Day 2020 on Sunday 12 January. FHS will organize various activities at E12 lobby on that day, including themed talk, game booths and lab tours. Participants will have the chance to experience UM's unique model of education,and vibrant campus life and also learn more about the curriculum structure of the programmes and advanced technologies of the Faculty. The Open Day will take place between 11:00am and 5:00pm. You are encouraged to attend the event to spend a fun and memorable Sunday at UM with your family.

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UPCOMING

January 2020

Mon	Tues	Wed	Thurs	Fri
6	**7** **Seminar Series** Stable Isotope Tracing Reveals Metabolic Reprogramming in Cancer Cells Speaker: Prof. Shuhai LIN Host: Prof. Lijun DI Time: 10:00-11:00 Venue: E12-G004	**8** **B-CAT Meeting #23** Speaker: Prof. Jun ZHENG Time: 17:00 Venue: E12-G004	**9** **FHS Postdoc/ Student Seminar** Field: Cancer research Host: Prof. Kathy Qian LUO and Prof. Tzu-Ming LIU Time: 17:00-18:00 Venue: N22-G002	**10**
13	**14**	**15** **Chinese New Year Gathering** Time: 7:00 p.m. Venue: 氹仔漁村TAM CHAI YU CHUN	**16** **Seminar Series** Regulatory Mechanisms of Intestinal Homeostasis Speaker: Dr. Lei CHEN Host: Prof. Chuxia DENG Time: 11:00-12:00 Venue: E12-G004	**17** **Seminar Series** Next-generation 3D Pathology for Precision Medicine Applications Speaker: Dr. Yen-Yin LIN Host: Prof. Tzu-Ming LIU Time: 14:30-15:30 Venue: E12-G003
20	**21**	**22** **B-CAT Meeting #24** Speaker: Prof. Xiaoling XU Time: 17:00 Venue: E12-G004	**23** **FHS Postdoc/ Student Seminar** Field: Aging, and neural and metabolism disorders Host: Prof. Wenhua ZHENG and Prof. Honjie ZHANG Time: 17:00-18:00 Venue: N22-G002	**24**

For more information or submission of articles to be featured, please contact Ms. Mathilde CHEANG at mathildec@um.edu.mo or 8822 4909.