

ACADEMIC ACTIVITIES

Publication(s) of the week

1. Yang, J., Park, J. W., Zheng, D., and Xu, R. H. (2018) Universal Corneal Epithelial-Like Cells Derived from Human Embryonic Stem Cells for Cellularization of a Corneal Scaffold. *Transl Vis Sci Technol* **7**, 23
2. Luo, F., Xie, Y., Wang, Z., Huang, J., Tan, Q., Sun, X., Li, F., Li, C., Liu, M., Zhang, D., Xu, M., Su, N., Ni, Z., Jiang, W., Chang, J., Chen, H., Chen, S., Xu, X., Deng, C., Wang, Z., Du, X., and Chen, L. (2018) Adeno-Associated Virus-Mediated RNAi against Mutant Alleles Attenuates Abnormal Calvarial Phenotypes in an Apert Syndrome Mouse Model. *Mol Ther Nucleic Acids* **13**, 291-302
3. Wang, M. Y., Luan, P., Zhang, J., Xiang, Y. T., Niu, H., and Yuan, Z. (2018) Concurrent mapping of brain activation from multiple subjects during social interaction by hyperscanning: a mini-review. *Quant Imaging Med Surg* **8**, 819-837
4. Zhang, H., Wang, Y., Dou, J., Guo, Y., He, J., Li, L., Liu, X., Chen, R., Deng, R., Huang, J., Xie, R., Zhao, X., and Yu, J. (2018) Acetylation of AGO2 promotes cancer progression by increasing oncogenic miR-19b biogenesis. *Oncogene*

Seminar Series

Visualizing diseases and drugs in action for optimized treatment: Applications of molecular imaging in the era of precision medicine - Prof. Yiyun Henry HUANG



Prof. Yiyun Henry HUANG, Professor, Department of Radiology and Biomedical Imaging, Yale University, visited FHS on 15 October and presented a seminar titled “Visualizing diseases and drugs in action for optimized treatment: Applications of molecular imaging in the era of precision medicine”.

Positron Emission Tomography (PET) is a powerful molecular imaging technique with unparalleled specificity. The specificity of PET imaging derives from PET radiochemistry. The availability of specific PET radiotracers is essential to the realization of the full power of PET imaging. PET radiotracers are biologically active molecules labeled with positron-emitting radionuclide. They interact with specific proteins, enzymes and biochemical processes *in vivo*.

Information gleaned from these interactions through PET imaging makes it possible to probe the physiology, pharmacology, and the state of biochemical processes in the living system. This presentation will seek to illustrate the applications of PET imaging to probe the molecular basis of disease pathophysiology, which in turn can be used to inform drug development, to optimize treatment strategies and to monitor the efficacy of existing and emerging therapies. As a highly sensitive and specific molecular imaging tool, PET imaging will play an important role in precision medicine and personalized care.

PhD Oral Defense

PhD Oral Defense by Duyang GAO of Prof. Zhen YUAN's group



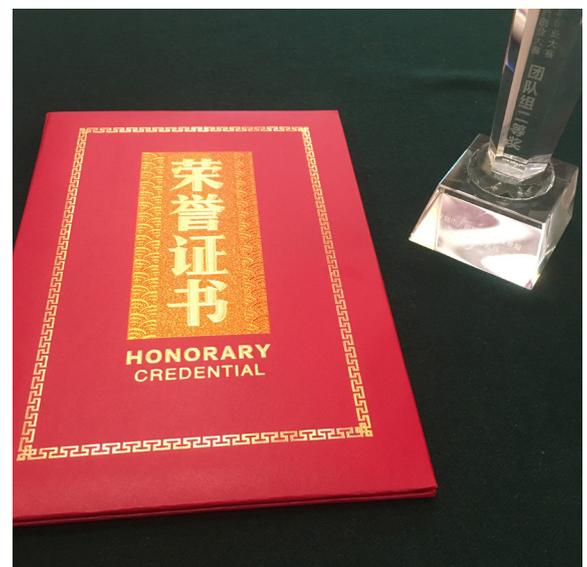
Mr. Duyang GAO, supervised by Prof. Zhen YUAN, has completed his PhD Oral Defense on 19 October 2018 (Friday). The title of his thesis was “Engineering of Protein-Based Multifunctional Nanoparticles with Near-Infrared Absorption as Photoacoustic Contrast Agents for Biological applicaitons”.

Mr. GAO's thesis project addresses the lack of agents to enhance the contrast between disease and normal tissues in Photoacoustic (PA) Imaging. His project has engineered multifunctional nanoparticles with near-infrared absorption based on bovine serum albumin as contrast agents for PA imaging-guided disease treatment.

FHS News

Prof. Renhe XU's team BayLife Technology won award at entrepreneurship competition

Prof. Renhe XU's team BayLifeTechnology presented their project the Ambient Cell Transportation System at the Shenzhen Dapeng New District Entrepreneurship Competition on 26 July and won the Second Prize and Overseas Excellence Award.



STUDENT ACTIVITIES

FHS Postdoc Student Seminar - Presented by Prof. Edwin CHEUNG's group and Prof. Leo LEE's group

This week, the FHS Postdoc Student Seminar series continues. On 18 September, Mr. Shreyas LINGADAHALLI of Prof. Edwin CHEUNG's group presented "Identification and Functional Characterization of Novel Regulators of Androgen Receptor Transcriptional Activity in Prostate Cancer" and Mr. Qingyu ZHANG of Prof. Leo LEE's group presented "Fatty acid metabolism reprogramming in ovarian cancer metastasis". The next seminar will be held on 1 November, presented by the groups of Prof. Saming WANG and Prof. Lijun DI .



OCTOBER / NOVEMBER

Mon	Tues	Wed	Thurs	Fri
22	23	24	25	26
<p>The 8th National Conference on Bioinformatics and Systems Biology of China and the 1st (Macao) International Bioinformatics Symposium</p>			<p>Seminar Series Genome-wide characterization of circRNAs and beyond Prof. Li YANG Time: 09:30-10:30 Venue: E12-G003</p>	<p>Seminar Series Identification and characterization of type III secretion system (T3SS) effectors in <i>Edwardsiella piscicida</i> Dr. Ka Yin LEUNG Time: 10:00-11:00 Venue: E12-G004</p>
	<p>Novogene Recruitment Seminar Time: 14:00-16:00 Venue: E12-G004</p>	<p>Seminar Series Development of Red/NIR emissive optical nanoprobes for bioimaging and disease theranostics Prof. Pengfei ZHANG Time: 10:00-11:00 Venue: E12-G004</p> <p>B-CAT Meeting #28 Prof. Li WANG Time: 17:00 Venue: E12-G003</p>	<p>Seminar Series To mend a broken heart, thou shalt learn from the ladies Prof. Yun Wah LAM Time: 14:15-15:15 Venue: E12-G003</p>	
29	30	31	1	2
<p>Seminar Series The interconnected roles between DNA repair, NAD⁺, and mitophagy in aging and neurodegeneration Prof. Evandro Fei FANG Time: 11:00-12:00 Venue: E12-G003</p>			<p>Abcam WB Workshop Time: 14:00-16:30 Venue: N22-4028</p> <p>FHS Postdoc/ Student Seminar Series Host: Sanming WANG, Lijun DI Time: 17:00 Venue: E12-G004</p>	<p>All Soul's Day</p>
5	6	7	8	9
<p>Diet, Nutrition and Diseases Seminar Prof. Henry KWOK, Dr. Vicki FONG, Ms. Carmen MAN Time: 13:30 Venue: N6-5001 *Register with Prof. KWOK if interested</p>		<p>B-CAT Meeting #29 Prof. Xuanjun ZHANG Time: 17:00 Venue: E12-G003</p>	<p>Seminar Series Intravital imaging and micromanipulation of stem cell niches in bone Prof. Charles LIN Time: 11:00-12:00 Venue: E12-G004</p> <p>Seminar Series Evans blue-based theranostics Prof. Xiaoyuan CHEN Time: 17:00-18:00 Venue: E12-G004</p>	<p>Seminar Series Single Molecule Biosensors for Dynamic Multigene Analysis in Complex Tissue Environments Prof. Pak WONG Time: 09:30-10:30 Venue: E12-G004</p>

For more information or submission of articles to be featured, please contact Ms. Vivienne Fong at viviennefong@umac.mo or 8822 4230.