

ACADEMIC ACTIVITIES

Publications of the week

1. Li, N., Zhang, Q., Jia, Z., Yang, X., Zhang, H., and Luo, H. (2018) Volatile oil from alpinia officinarum promotes lung cancer regression in vitro and in vivo. *Food Funct*
3. Ma, S., Fu, A., Lim, S., Chiew, G. G. Y., and Luo, K. Q. (2018) MnSOD mediates shear stress-promoted tumor cell migration and adhesion. *Free Radic Biol Med*
4. Qin, M., Zhang, Z., Song, W., Wong, Q. W., Chen, W., Shirgaonkar, N., and Ge, W. (2018) Roles of Figla/figla in Juvenile Ovary Development and Follicle Formation during Zebrafish Gonadogenesis. *Endocrinology*
5. Tan, Q., Chen, B., Wang, Q., Xu, W., Wang, Y., Lin, Z., Luo, F., Huang, S., Zhu, Y., Su, N., Jin, M., Li, C., Kuang, L., Qi, H., Ni, Z., Wang, Z., Luo, X., Jiang, W., Chen, H., Chen, S., Li, F., Zhang, B., Huang, J., Zhang, R., Jin, K., Xu, X., Deng, C., Du, X., Xie, Y., and Chen, L. (2018) A novel FGFR1-binding peptide attenuates the degeneration of articular cartilage in adult mice. *Osteoarthritis Cartilage*

Seminar Series

Computational biology studies, at the heart of cardiovascular precision medicine - Dr. Ning-Yi SHAO

Dr. Ning-Yi SHAO, a postdoctoral fellow in the Cardiovascular Institute of Stanford University, visited FHS on 10 September and shared his research on Computational biology studies, at the heart of cardiovascular precision medicine.

Heart disease is the top adult killer in the Western world and brings a considerable health burden to the society. Recently with the application of next generation sequencing (NGS), the bottleneck of biomedical studies evolved from data generation to data analysis. Effectively integrating large-scale data analysis with “wet” biology is the essential way to investigate the whole system. Dr. SHAO introduced his studies on the cis-regulation mechanisms of heart development and reprogramming using multi-omics integration methods, including the molecular mechanisms of human heart development, and the efficiency of extrapolation of mouse model to human use during cardiac differentiation. Dr. SHAO also discussed the application of multi-omics in human diseases to find the missing link between genotypes to phenotypes.



ACADEMIC ACTIVITIES

Seminar Series

Studying metabolism of herbal substances: case study of scoparone - Dr. Risto JUVONEN



On 21 September, Dr. Risto JUVONEN, senior researcher from the University of Eastern Finland, visited FHS to share his research on the metabolism of herbal substances, through the case study of scoparone.

Dr. JUVONEN received his Ph.D. in Toxicology at the University of Kuopio, Finland and conducted his post-doctoral studies at the National Institutes of Health, U.S.A. His seminar detailed recent studies with Scoparone, an active substance of Chinese Herbal Medicine Yin Chen Hao, its metabolism, and comparative toxicology between animals and humans.

STUDENT ACTIVITIES

FHSSA Orientation Camp

On 7 and 8 September, Faculty of Health Sciences Students' Association (FHSSA) organized an orientation camp at Hac Sa Beach to facilitate bonding between FHS freshmen and seniors. The orientation camp was made up of icebreakers and various team-building activities that allowed ample communication and strengthened bonding. With this opportunity, undergraduate students felt even more welcomed as a member of FHS and developed a sense of belonging. The trip was fruitful where everyone enjoyed their stay and looked forward to a promising new semester.



FHS News

1st Macau Stem Cell Symposium

The 1st Stem Cell Symposium, hosted by FHS, was held on 12 September with great success. Scholars and researchers in stem cell research gathered and shared their latest insights and research results. The Symposium's success relied on the collaboration among stem cell scientists from UM (including FHS and ICMS) and MUST and the strong support from FHS, as well as from UM and FDCT leaders.



FHS Alumni Hada Fong-ha IEONG wins the 2018 Trainee Professional Development Award from the Society for Neuroscience

The Society for Neuroscience (SfN) is a professional society, headquartered in Washington, DC, for basic scientists and physicians around the world whose research focuses on the study of the brain and nervous system. The Society holds an annual meeting for scientists and physicians from all around the world. This year, over 30,000 people will attend the Society for Neuroscience (SfN) meeting to exhibit and discuss cutting-edge research in neuroscience. The award recognizes graduate students, postdoctoral fellows and young principle investigators among the 30,000 participants demonstrating scientific merit and excellence in research with the support to present at the annual meeting.



This merit-based award will help Hada attend the Neuroscience 2018 conference in San Diego and thus benefit from a variety of professional development workshops and short courses offered by the Society for Neuroscience. Hada will also present her latest work on multi-modal neuroimaging translation in the conference's poster session. The work was conducted in FHS when she was a PhD student and studied desynchronized oscillations and distributed hemodynamics in the prefrontal cortex in opiate addiction during recovery and their possible association with functional ischemia. Hada graduated in 2017 from Prof. Zhen Yuan's group. She has published four papers in *Neurophotonics*, *Frontiers in Neuroscience*, *Biological Psychiatry* and *Scientific Report*. She also has another important clinical work under review.

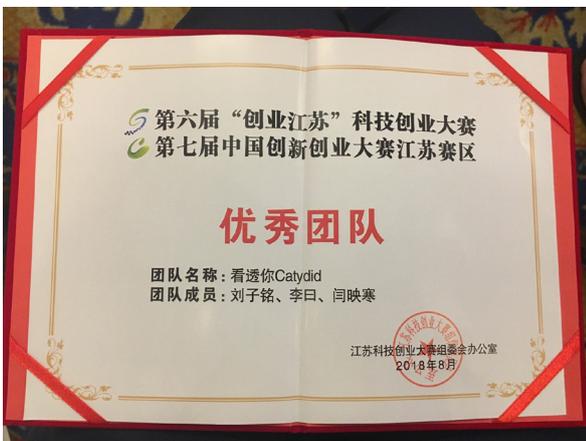
FHS News

FHS startup team Catydid continued their success in entrepreneurship competitions

The FHS startup team Catydid aims to develop and commercialize the blood fluorescence meter for the evaluation of organ function. After their success in Greater Bay Area (Macau) Youth Innovation and Entrepreneurship Competition” (大灣區（澳門）青年創新創業大賽), they reached out for future opportunities for commercialization.

This summer, they assembled two teams and participated in two startup competitions: the 6th Jiangsu Science & Technology Entrepreneurship Competition (第六屆“創業江蘇”科技創業大賽) and the 2018 Guangdong Entrepreneurship and Innovation Competition (2018廣東“眾創杯”創業創新大賽). The prior only allows professors and graduate students to participate. The team members are Prof. Tzuming LIU, FHS graduate students Yue LI and Yinghan YAN. The latter competition is dedicated for undergraduate students. The team members are Prof. Tzuming LIU, FHS undergraduate students Steven, Kan Min HSU and Winnie, Weng In CHONG, FHS Research Assistant William, Wai How CHONG and FBA undergraduate student Amy, Yu Xin DU.

There are 3000- 4000 applied teams in both competitions, Catydid stood out amongst participating teams and successfully entered the final rounds of both competitions. The FHS team won the third place out of nine finalists at the 6th Jiangsu Science & Technology Entrepreneurship Competition. Meanwhile, they got through the semi-final stage in the Guangdong Entrepreneurship and Innovation Competition. They will compete with five other finalists on 21 September in Guangzhou.



2018年广东“众创杯”大学生启航赛暨“赢在广州”第七届大学生创业大赛（团队组半决赛）成绩

| 序号 | 项目名称 | 所属院校 | 总得分 | 现场分 | 网络分 |
|----|----------------------|----------|-------|-------|------|
| 1 | TU纯天然之家有限公司 | 仲恺农业工程学院 | 85.65 | 81.6 | 4.05 |
| 2 | 旭航科技：无人机续航技术及其方案供应商 | 华南理工大学 | 84.79 | 80.04 | 4.75 |
| 3 | 采篱农创——新型农业教育模式与品牌的开发 | 华南农业大学 | 84.3 | 79.6 | 4.70 |
| 4 | 台湾碳气凝胶项目 | 台湾昆山科技大学 | 83.91 | 80.96 | 2.95 |
| 5 | 新型荧光心脏及肝脏手术中定位监测仪 | 澳门大学 | 83.8 | 79.6 | 4.20 |
| 6 | 台湾皮肤益生菌项目 | 台湾中央大学 | 83.2 | 80.1 | 3.10 |

SEPTEMBER/ OCTOBER

| Mon | Tues | Wed | Thurs | Fri |
|--|-----------|---|---|---|
| 17 | 18 | 19 | 20 | 21 |
| <p>Seminar Series 兒童健康與疾病臨床醫學研究創新基地建設實踐與探索</p> <p>舒強教授</p> <p>Time: 15:30-16:30 Venue: N22-4028</p> | | <p>B-CAT Meeting #26 Prof. Hongjie ZHANG Time: 17:00 Venue: E12-G004</p> | <p>FHS Postdoc/ Student Seminar Series Host: Guokai CHEN Henry KWOK Time: 17:00 Venue: E12-G004</p> | <p>Seminar Series Overcoming challenges to CRISPR-mediated gene correction for treating genetic airway diseases Prof. Jim HU Time: 09:30-10:30 Venue: E12-G004</p> |
| 24 | 25 | 26 | 27 | 28 |
| | | <p>Seminar Series DNA binding proteins in epigenetic regulation: decipher the function of different C2H2-ZFPs for Polycomb recruitment Prof. Ming-an SUN Time: 10:30 - 11:30 Venue: E12-G004</p> | | |
| 1 | 2 | 3 | 4 | 5 |
| | | <p>B-CAT Meeting #27 Prof. Leo LEE Time: 17:00 Venue: E12-G004</p> | <p>Seminar Series Allele-selective Degradation of Mutant HTT (mHTT) via Autophagy by mHTT-LC3 Linker Compounds Prof. Boxun LU Time: 15:00-16:00 Venue: E12-G004</p> <p>FHS Postdoc/ Student Seminar Series Host: Kathy LUO Li GANG Time: 17:00 Venue: TBC</p> | |
| 8 | 9 | 10 | 11 | 12 |
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