SWEEKLY NEWSLETTER Issue 11 | 15 - 19 March

Publication

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OF HEALTI

SCIENCES

- Chen, X., Qi, H., Liu, R., Feng, Y., Li, W., Xiang, M., Cheung, T., Jackson, T., Wang, G., and Xiang, Y. T. (2021) Depression, Anxiety and Associated Factors among Chinese Adolescents during the COVID-19 Outbreak: A Comparison of Two Cross-Sectional Studies. *Transl Psychiatry* **11** (1), 148 [5yr IF = 5.904]
- Zhou, W., Silva, M., Feng, C., Zhao, S., Liu, L., Li, S., Zhong, J., and Zheng, W. (2021) Exosomes Derived from Human Placental Mesenchymal Stem Cells Enhanced the Recovery of Spinal Cord Injury by Activating Endogenous Neurogenesis. *Stem Cell Res Ther* **12** (1), 174 [5yr IF = 5.554]
- Wang, T., Pan, W., Zheng, H., Zheng, H., Wang, Z., Li, J., Deng, C., and Yan, J. (2021) Accuracy of Using a Patient-Derived Tumor Organoid Culture Model to Predict the Response to Chemotherapy Regimens in Stage IV Colorectal Cancer: A Blinded Study. *Dis Colon Rectum* [5yr IF = 4.019]



Prof. Lijun DI shared his latest research progress in the BCAT meeting on 17 March. His study is about the function of CtBP in breast cancer metastasis. CtBP is a welltranscriptional co-factor with studied а specific role in repressing many tumor suppressor genes. To further understand how CtBP might contribute to tumor metastasis, Prof. Di's team set up the BioID technology to identify the interacting partner proteins of CtBP. Trim28 was found to be an important novel factor that formed a complex with CtBP in breast cancer cells. Their finding suggested that Trim28 protected CtBP from the proteasome-mediated degradation and CtBP also maintained the stability of Trim28 by an unknown mechanism. The stabilized CtBP/Trim28 complex was important to

mediate the tumorigenesis and cancer cell migration as disclosed in their functional assays. Besides, they found that CtBP was a repressor of intracellular fatty acid abundance by repressing the synthesis of fatty acid and increased the fatty acid oxidation. They found that CtBP repressed the autophagy and endocytosis activity in breast cancer cells, which suggested the cancer cells may limit the expenditure of the energy produced by fatty acid oxidation under the metastatic conditions. Moreover, CtBP was found to increase the survival of breast cancer cells at the inadherent culture conditions, which might be related to the increase of reducing factor like glutathione but not NADPH.



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FHS Postdoc Student Seminar

Presented by Prof. Guokai CHEN's group and Prof. Ren-He XU's group

On 18 March, Ms. Chengcheng SONG of Prof. Guokai CHEN's group presented "ERK5 Inhibition Leads to Cell Fate Switches in Human Embryonic Stem Cells" and Mr. Haibo PENG of Prof. Ren-He XU's group presented "B2M Is Required for LRP1 Presentation on the Cell Surface and Stem Cell Differentiation".

The next seminar willbe held on 1 April, and presented by the group members of Prof. Gang LI and Prof. Ruiyu XIE via Zoom again.





FHS is going to hold the 5th Symposium Biomedical Sciences for Students. on Postdoctoral Fellows and Research Assistants 2021 on 24 March (Wednesday) from 13:00 to 17:30.

Let's join together!







UPCOMING EVENTS

March / April		
Mon	22	29
Tue	23	30
Wed	24 <u>Seminar Series</u> 5 th Symposium on Biomedical Sciences for Students, Postdoctoral Fellows and Research Assistants 2021 Time: 14:30-18:00 Venue: N21-G013	31 BCAT Meeting Speaker: Dr. Zhihui WENG Time: 17:00-18:00 Venue: E12-G004
Thu	25	April 1 <u>FHS Postdoc/ Student Seminar</u> Session: Cancer research Host: Prof. Gang LI and Prof. Ruiyu XIE Time: 17:00-18:00 Venue: N22-G002 and Zoom
Fri	26	2

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