

Publications

Recent Publications

Ng, R., Hussain, N.A., Zhang, Q.Y., Chang, C.W., Li, H.Y., Han, W.P., Stunkel, W. and Xu, F.* (2017)

miRNA-32 drives brown fat thermogenesis and trans-activates subcutaneous white fat browning in mice.

Cell Reports. 19, 1229–1246.

Julien, S.G., Kim, S.Y., Brunmeir, R., Sinnakannu, J.R., Ge, X.J., Ma, W., Yaligar, J., KN, B.P., Velan, S.S., Röder, P.V., Zhang, Q.Y., Sim, C.K., Wu, J.Y., Xie, W., McFarlane, C., Han, W.P. and Xu, F.* (2017)

Narciclasine attenuates diet-induced obesity by promoting oxidative metabolism in skeletal muscle.

PLoS Biology. 16;15(2):e1002597. ([Research Highlights](#) by **Nature Reviews Endocrinology**)

Brunmeir, R., Wu, J.Y., Peng, X., Julien, S.G., Zhang, Q.Y., Xie, W.* and Xu, F.* (2016)
Comparative Transcriptomic and Epigenomic Analyses Reveal New Regulators of Murine Brown Adipogenesis.

PLoS Genetics.

Joseph, R., Poschmann, J., Sukarieh, R., Too, P.G., Julien, S.G., Xu, F., Teh, A.L., Holbrook, J.D, Ng, K.L., Chong, Y.S., Gluckman, P.D., Prabhakar. S. and Stünkel, W.* (2015)

Acyl-CoA synthetase 1 in differentiated adipocytes from small for gestational age neonates: Putative association with fetal programming of cellular insulin sensitivity and lipid content.
Mol Endocrinol. 29(6):909-920.

Peng, X., Wu, J.Y., Brunmeir, R., Kim, S.Y., Zhang, Q.Y., Ding, C.M., Han, W.P., Xie, W. and Xu, F. * (2015)

TELP, a sensitive and versatile library construction method for next-generation sequencing.
Nucleic Acids Res. 43(6):e35.

Nicholas, D., Tang, H., Zhang, Q.Y., Xu, F., Langridge, W. and Zhang, K.L.* (2015) Protein profiling reveals dynamic H1 expression and histone modifications during human monocyte differentiation.

Molecular and Cellular Proteomics. 14(1):15-29.

Yang, W.L., Thein, S., Lim, C.Y., Ericksen, R.E., Sugii, S., Xu, F., Robinson, R., Kim, J.B. and Han, W.P.* (2014)

Arp2/3 complex regulates adipogenesis by controlling cortical actin remodeling.
Biochemical Journal. 464(2), 179-192.

Ramlee, M.K., Zhang, Q.Z., Idris, M., Peng, X., Sim, C.K., Han, W.P. and Xu, F. * (2014) Histone H3 K27 acetylation marks a potent enhancer for the adipogenic master regulator gene *Pparg2*.

Cell Cycle. 13(21), 3414-3422.

Gao, M., Sim, C.K., Leung, C., Hu, Q.L., Feng, G.X., Xu, F.* Tang, B.Z.* and Liu, B.* (2014) A fluorescent light-up probe for specific mitochondrial imaging to identify differentiating brown adipose cells.

Chemical Communications. 50(61), 8312-8315.

Yang, W.L., Thein, S., Wang, X.R., Bi, X.Z., Ericksen, R.E., Xu, F., and Han, W.P.* (2014) BSCL2 / seipin regulates adipogenesis through actin cytoskeleton remodeling.

Human Molecular Genetics. 23(2), 502-513.

Yang, W.L., Thein, S., Guo, X.X., Xu, F., Venkatesh, B., Sugii, S., Radda, G.K., and Han, W.P.* (2013)

Xu, F., Zhang, K.L. and Grunstein, M. (2005)

Acetylation in Histone H3 Globular Domain Regulates Gene Expression in Yeast.

Cell. 121,375-385.

Yu, Y., Liu, Y., Shen, N., Xu, X., Xu, F., Jia, J., Jin, Y., Arnold, E. and Ding, J. (2004) Crystal structure of human tryptophanyl-tRNA synthetase catalytic fragment: insights into substrate recognition, tRNA binding, and angiogenesis activity.

J Biol Chem. 279(9), 8378-8388.

Wang, Z.C., Wang, X.M., Jin, Y.X., Jiao, B.H., Xu, F., Miao, M.Y. and Zhu, K.J. Search for difference in aminoacylation of mitochondrial DNA-encoded wild-type and mutant human tRNA^{Leu} (UUR). (2003)

IUBMB Life. 55(3), 139-144.

Xu, F., Jiang, G., Li, W., He, X., Jin, Y.X. and Wang, D. (2002)W sog4.3 (,)74.3199g, b4.3 (,)ytmi,he 9g,c6.6