

Stanford



Hua Dong

Postdoctoral Scholar, Stem Cell Biology and Regenerative Medicine

Bio

HONORS AND AWARDS

- Finalist in Life Science Research Foundation (LSRF) award, Life Sciences Research Foundation (2022)
- Pfizer Research Prize, Pfizer Research Prize Foundation (2022)
- SNSF Postdoc Fellowship, Swiss National Science Foundation (2020)
- ETH Medal, ETH Zurich (2020)
- Chinese government award, China Scholarship Council (2018)
- Best poster award, Competence Center Personalized Medicine in Zurich (2018)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Clinical board certificates, Changxing Municipal Health Bureau (2014 - present)
- Clinical board certificates, Jiangsu Municipal Health Bureau (2012 - present)

PROFESSIONAL EDUCATION

- Doctor of Science, ETH Zurich (2020)
- Master of Medicine, Capital Medical University (2014)
- Bachelor of Medicine, Xuzhou Medical College (2011)

STANFORD ADVISORS

- Philip Beachy, Postdoctoral Faculty Sponsor
- Philip Beachy, Postdoctoral Research Mentor

LINKS

- Google Scholar: https://scholar.google.ch/citations?hl=en&user=q0V6m3gAAAAJ&pagesize=80&view_op=list_works&gmla=AJsN-F7KVCX3en-IG5sMZ13QrZFjPhq_xYISFt9dS1Orq-lhDdOTScba7Ek4eeixy0BBWYIEgpzflJWIITMMMG4yQ6vom5ppFsiQ7xtfbcHgnBqak8ztQg

Research & Scholarship

LAB AFFILIATIONS

- Philip Beachy (9/6/2021)

Publications

PUBLICATIONS

- **Identification of a regulatory pathway inhibiting adipogenesis via RSPO2.** *Nature metabolism*
Dong, H., Sun, W., Shen, Y., Baláz, M., Balázová, L., Ding, L., Löffler, M., Hamilton, B., Klötting, N., Blüher, M., Neubauer, H., Klein, H., Wolfrum, et al
2022
- **Local acetate inhibits brown adipose tissue function.** *Proceedings of the National Academy of Sciences of the United States of America*
Sun, W., Dong, H., Wolfrum, C.
2021; 118 (49)
- **Cold-induced epigenetic programming of the sperm enhances brown adipose tissue activity in the offspring** *NATURE MEDICINE*
Sun, W., Dong, H., Becker, A. S., Dapito, D. H., Modica, S., Grandl, G., Opitz, L., Efthymiou, V., Straub, L. G., Sarker, G., Balaz, M., Balazova, L., Perdikari, et al
2018; 24 (9): 1372+
- **A stromal cell population that inhibits adipogenesis in mammalian fat depots** *NATURE*
Schwalie, P. C., Dong, H., Zachara, M., Russeil, J., Alpern, D., Akkiche, N., Caprara, C., Sun, W., Schlaudraff, K., Soldati, G., Wolfrum, C., Deplancke, B.
2018; 559 (7712): 103+
- **GPR180 is a component of TGF beta signalling that promotes thermogenic adipocyte function and mediates the metabolic effects of the adipocyte-secreted factor CTHRC1** *NATURE COMMUNICATIONS*
Balazova, L., Balaz, M., Horvath, C., Horvath, A., Moser, C., Kovanicova, Z., Ghosh, A., Ghoshdastider, U., Efthymiou, V., Kiehlmann, E., Sun, W., Dong, H., Ding, et al
2021; 12 (1): 7144
- **SORLA is required for insulin-induced expansion of the adipocyte precursor pool in visceral fat** *JOURNAL OF CELL BIOLOGY*
Schmidt, V., Horvath, C., Hua Dong, Blueher, M., Qvist, P., Wolfrum, C., Willnow, T. E.
2021; 220 (12)
- **Lipolysis drives expression of the constitutively active receptor GPR3 to induce adipose thermogenesis** *CELL*
Johansen, O., Ma, T., Hansen, J., Markussen, L., Schreiber, R., Reverte-Salisa, L., Dong, H., Christensen, D., Sun, W., Gnad, T., Karavaeva, I., Nielsen, T., Kooijman, et al
2021; 184 (13): 3502+
- **Plasticity and heterogeneity of thermogenic adipose tissue** *NATURE METABOLISM*
Sun, W., Modica, S., Dong, H., Wolfrum, C.
2021; 3 (6): 751-761
- **Lysosomal lipoprotein processing in endothelial cells stimulates adipose tissue thermogenic adaptation.** *Cell metabolism*
Fischer, A. W., Jaeckstein, M. Y., Gottschling, K., Heine, M., Sass, F., Mangels, N., Schlein, C., Worthmann, A., Bruns, O. T., Yuan, Y., Zhu, H., Chen, O., Itrich, et al
2021; 33 (3): 547-564.e7
- **snRNA-seq reveals a subpopulation of adipocytes that regulates thermogenesis** *NATURE*
Sun, W., Dong, H., Balaz, M., Slyper, M., Drokhyansky, E., Colletuori, G., Giordano, A., Kovanicova, Z., Stefanicka, P., Balazova, L., Ding, L., Husted, A., Rudofsky, et al
2020; 587 (7832): 98+
- **Inhibition of Mevalonate Pathway Prevents Adipocyte Browning in Mice and Men by Affecting Protein Prenylation** *CELL METABOLISM*
Balaz, M., Becker, A. S., Balazova, L., Straub, L., Mueller, J., Gashi, G., Maushart, C., Sun, W., Dong, H., Moser, C., Horvath, C., Efthymiou, V., Rachamin, et al
2019; 29 (4): 901+
- **BATLAS: Deconvoluting Brown Adipose Tissue** *CELL REPORTS*
Perdikari, A., Lepar, G., Balaz, M., Pires, N. D., Lidell, M. E., Sun, W., Fernandez-Albert, F., Mueller, S., Akkiche, N., Dong, H., Balazova, L., Opitz, L., Roder, et al
2018; 25 (3): 784+
- **Maternal n-3 polyunsaturated fatty acid deprivation during pregnancy and lactation affects neurogenesis and apoptosis in adult offspring: associated with DNA methylation of brain-derived neurotrophic factor transcripts** *NUTRITION RESEARCH*

Fan, C., Fu, H., Dong, H., Lu, Y., Lu, Y., Qi, K.

2016; 36 (9): 1013-1021

- **Dietary ratios of n-6/n-3 polyunsaturated fatty acids during maternal pregnancy affect hippocampal neurogenesis and apoptosis in mouse offspring** *NUTRICION HOSPITALARIA*

Fan, C., Sun, W., Fu, H., Dong, H., Xia, L., Lu, Y., Deckelbaum, R. J., Qi, K.

2015; 32 (3): 1170-1179

- **Particle size determines effects of lipoprotein lipase on the catabolism of n-3 triglyceride-rich particles** *CLINICAL NUTRITION*

Xia, L., Fan, C., Dong, H., Wang, C., Lu, Y., Deckelbaum, R. J., Qi, K.

2015; 34 (4): 767-774

- **Genome-wide screen of DNA methylation identifies novel markers in childhood obesity** *GENE*

Ding, X., Zheng, D., Fan, C., Liu, Z., Dong, H., Lu, Y., Qi, K.

2015; 566 (1): 74-83

- **Genome-wide screen of promoter methylation identifies novel markers in diet-induced obese mice** *NUTRICION HOSPITALARIA*

Fan, C., Dong, H., Yan, K., Shen, W., Wang, C., Xia, L., Zhan, D., Qi, K.

2014; 30 (1): 42-52

- **Epigenetic Modification of the Leptin Promoter in Diet-Induced Obese Mice and the Effects of N-3 Polyunsaturated Fatty Acids** *SCIENTIFIC REPORTS*

Shen, W., Wang, C., Xia, L., Fan, C., Dong, H., Deckelbaum, R. J., Qi, K.

2014; 4: 5282