Stanford

Hua Dong

Instructor, Institute for Stem Cell Biology and Regenerative Medicine

Bio

ACADEMIC APPOINTMENTS

- Instructor, Institute for Stem Cell Biology and Regenerative Medicine

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)

LINKS

- Google Scholar: https://scholar.google.ch/citations?hl=en&user=q0V6m3gAAAAJ&pagesize=80&view_op=list_works&gmla=AJsN-F7KVCX3enl-IG5sMZ13QrZFjPhq_xYISFt9dS1Orq-lhDdOTScba7Ek4eeixy0BBWYIEgpzfIJWIITMMMG4yQ6vom5ppFsiQ7xtfbcHgnBqak8ztQg

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., Klöting, 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., Akchiche, N., Caprara, C., Sun, W., Schlaudraff, K., Soldati, G., Wolfrum, C., Deplancke, B.

2018; 559 (7712): 103-+

- **Obesity Is Associated with Distorted Proteoglycan Expression in Adipose Tissue.** *International journal of molecular sciences*

  Meen, A. J., Doncheva, A. I., Böttcher, Y., Dankel, S. N., Hoffmann, A., Blüher, M., Fernø, J., Mellgren, G., Ghosh, A., Sun, W., Dong, H., Noé, F., Wolfrum, et al

  2023; 24 (8)

- **Genetic variants in genes involved in creatine biosynthesis in patients with severe obesity or anorexia nervosa.** *Frontiers in genetics*

  Rajcsanyi, L. S., Hoffmann, A., Ghosh, A., Matrisch-Dinkler, B., Zheng, Y., Peters, T., Sun, W., Dong, H., Noe, F., Wolfrum, C., Herpertz-Dahlmann, B., Seitz, J., de Zwaan, et al

  2023; 14: 1128133

- **Myoglobin-mediated lipid shuttling increases adrenergic activation of brown and white adipocyte metabolism and is as a marker of thermogenic adipocytes in humans.** *Clinical and translational medicine*

  Christen, L., Broghammer, H., Rapöhn, I., Möhlis, K., Strehlau, C., Ribas-Latre, A., Gebhardt, C., Roth, L., Krause, K., Landgraf, K., Körner, A., Rohde-Zimmermann, K., Hoffmann, et al

  2022; 12 (12): e1108

- **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., Ittrich, 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., Drokhlyansky, E., Colleluori, 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., Leparc, G., Balaz, M., Pires, N. D., Lidell, M. E., Sun, W., Fernandez-Albert, F., Mueller, S., Akchiche, 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