

Huiyong YIN

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## Biography

Professor Huiyong YIN is currently the tenured Professor of Biomedical Sciences in Metabolism and Metabolic Diseases in the Department of Biomedical Sciences. Before joining City University of Hong Kong in February 2023, Prof. Yin was the Senior Principal Investigator (Professor Level II, 中科院特聘研究员, 二级教授) and Group Leader of Lipid Metabolism in Human Nutrition-related Diseases at Shanghai Institute of Nutrition and Health (SINH), Chinese Academy of Sciences (CAS), Shanghai, China. He was also the Distinguished Adjunct Professor in the School of Life Sciences and Technology in ShanghaiTech University since 2013. He obtained his BSc from Tongji University and MSc from Shanghai Institute of Organic Chemistry (SIOC), CAS, and PhD in Chemistry from Vanderbilt University in 2002. In 2003, Prof. Yin joined Vanderbilt University School of Medicine as a Research Instructor in the Division of Clinical Pharmacology, and was promoted to a Research Assistant Professor in 2005 and Associate Professor in 2008 in the Departments of Pharmacology, Medicine, and Chemistry. He also served as the Director for the Core Laboratory of Drug Metabolism and Pharmacokinetics (DMPK) in the drug discovery program at Vanderbilt University from 2007-2009. In August 2011, Prof. YIN was recruited back to the Institute of Nutritional Sciences (INS), Shanghai Institutes of Biological Sciences (SIBS), CAS, under the global talent recruitment program by Shanghai Municipal Government and CAS. He was the founding director of the Mass Spectrometry Facility for Nutrition and Food Safety at INS, SIBS from 2011 to 2017.

Professor Yin is one of the leading scientists in the field of redox regulation of glucose and lipid metabolism in human metabolic diseases. His research interest has been focusing on the understanding of metabolic reprogramming in carbohydrate and lipid metabolism in metabolic diseases including atherosclerosis, liver cancer, hyperuricemia and gout. For the past 20 years, Prof. Yin has made significant contributions in understanding the roles and underlying mechanisms of free radical lipid peroxidation in human diseases including atherosclerosis using the state-of-the-art metabolomics/lipidomics approaches (Yin et al *JACS*, 2000; 2002; Yin et al *Chem. Rev.* 2011; Zhong et al, *Redox Biol.* 2015; Zhong et al, *Free Radic. Biol. Med.* 2019), and discovered the novel non-enzymatic functions of Aldehyde Dehydrogenase 2 (ALDH2) in cardiovascular disease (CVD) (Zhong et al, *J. Clin. Invest.* 2019; Li et al, *JCI Insight*, 2021; Zhong et al, *Redox Biol.* 2021; Zhang et al, *Nat. Rev. Cardiol.* 2023). His research for the past five years has defined the pathways in metabolic reprogramming in liver cancer mediated by a key glycolytic enzyme fructose-1,6-bisphosphate aldolase B (ALDOB) (Li et al, *Nature Cancer*, 2020; He et al, *PLoS Biol.*, 2020; Liu et al, *Hepatology*, 2021). Using a precision medicine approach based on metabolomics and machine learning algorithms, Prof. Yin and his collaborators have established prediction models in assessing risks for gout attacks in asymptomatic hyperuricemia patients and the frequencies for gout flares (Shen et al, *Arthritis. Rheumatol.*, 2021; Lu et al, *Nat. Rev. Rheumatol.*, 2019). Since 2000, Prof. Yin has co-authored around **160** peer-reviewed manuscripts in SCI-indexed journals including *Science*, *Nature*, *Cell Metabolism*, *Nature Cancer*, *Nature Metabolism*, *Nature Review Cardiology*, *Nature Reviews Rheumatology*, *Molecular Cell*, *Journal of American Chemical Society*, *Hepatology*, *Redox Biology*, *Arthritis & Rheumatology*, *Free Radical Biology and Medicine*, *Journal of Biological Chemistry*, *Journal of Clinical Endocrinology and Metabolism*, and *Journal of American Society for Mass Spectrometry* with > **11,700** Google Scholar citations and h-index of **60** (as of April 2023). Prof. Yin has been listed as the **top 2% of the Most-Cited Scientists** by Stanford University since 2021 and was awarded prestigious "Senior International Scientists" in 2021 by National Natural Science Fund of China.

Professor Yin received "Pollyanna Chu Yuet Wah Outstanding Mentor Award" of Chinese Academy of Sciences (中国科学院朱李月华优秀教师奖) in 2022; "Senior International Scientist" (外国资深研究学者) by NSF-China in 2021; "Outstanding Mentor Award" from ShanghaiTech University in 2020; CAS BR (2011) and "Shanghai Expert" (上海特聘专家) by Shanghai Municipal Government in 2012; Travel Award from Society for Free Radical Biology and Medicine (SFRBM) in 2004 and Young Investigator Award in 2005; Best Research Paper from Vanderbilt School of Medicine 2006; Warren Fellowship from Department of Chemistry at Vanderbilt University in 2000; CAS President Award for outstanding graduate student in 1995.

## Employment

### Professor

Department of Biomedical Sciences

City University of Hong Kong

1 Jan 2025 → present

## Research outputs

### **NANOG governs cell metabolism and redox homeostasis in human naïve embryonic stem cells**

Shao, M. (Co-first Author), Wang, H. (Co-first Author), Liu, Y., Wang, Y., Zhao, H., Gu, J., Zhong, N., Zhou, Y., Yin, H., Jin, Y. & Liao, B., Dec 2025, In: EMBO Reports. 26, 24, p. 6292-6324 33 p.

### **Erythrocyte odd-chain fatty acids and the risk of cardiometabolic diseases: a prospective study and updated meta-analysis**

China Kadoorie Biobank Collaborative Group, 22 authors, including, Sun, L. (Co-first Author), Xu, X. (Co-first Author), Du, H. (Co-first Author), Lu, L. (Co-first Author), Imamura, F., Yang, Q., Chen, Y., Chen, Y., Pei, P., Yin, H., Yang, L., Zong, G., Yu, C., Chu, Q., Lv, J., Zhou, P., Sun, D., Chen, J. & Gao, X. & 3 others, Li, L. (Co-last Author), Chen, Z. (Co-last Author) & Lin, X. (Co-last Author), 24 Sept 2025, (Online published) In: European Journal of Preventive Cardiology. 13 p., zwaf601.

### **2024 Update of Chinese Guidelines for Diagnosis and Treatment of Hyperuricemia and Gout Part I: Recommendations for General Patients**

31 authors, including, Sun, M. (Co-first Author), Lyu, Z. (Co-first Author), Yin, H., Li, C. & Zhao, J., Jul 2025, In: International Journal of Rheumatic Diseases. 28, 7, 11 p., e70375.

### **Stress granules shape metabolic reprogramming and drug resistance**

Zhong, S. & Yin, H., Jul 2025, In: Nature Cancer. 6, 7, p. 1129–1130

### **GLS1-Mediated Redundancy in Glutamate Accelerates Arterial Calcification via Activating NMDAR/Ca<sup>2+</sup>/β-Catenin Pathway**

Zhou, Z. (Co-first Author), Dong, B. (Co-first Author), He, D. (Co-first Author), Ma, J. (Co-first Author), Kong, Y., Zhu, H., Xie, C., Yang, T., Zhen, X., Zhang, Z., He, Z., Cheng, J., Huang, A., Chen, J., Wu, R., Yin, H., Chen, Y., Tao, J. & Huang, H., 5 Jun 2025, In: Advanced Science. 12, 21, 2414252.

### **TET2 suppresses vascular calcification by forming an inhibitory complex with HDAC1/2 and SNIP1 independent of demethylation**

He, D., Ma, J., Zhou, Z., Qi, Y., Lian, Y., Wang, F., Yin, H., Zhang, H., Zhang, T. & Huang, H., May 2025, In: Journal of Clinical Investigation. 135, 9, e186673.

### **Uncoupling protein 3 protects against pathological cardiac hypertrophy via downregulation of aspartate**

Wang, Y. (Co-first Author), Tan, J. (Co-first Author), Li, L. (Co-first Author), Liu, S., Li, X., Shan, H., Yin, H. & Yang, H.-T., May 2025, In: Journal of Molecular and Cellular Cardiology. 202, p. 1-12

### **Metabolomic profiles underlying gout flares: a prospective study of people with gout**

Sun, W. (Co-first Author), Li, R. (Co-first Author), Dalbeth, N. (Co-first Author), Cui, L., Liu, Z., Wang, C., Han, L., Zhang, H., Lu, J., Yin, H. (Co-last Author), Chen, H. (Co-last Author) & Li, C. (Co-last Author), Apr 2025, In: RMD Open. 11, 2, e005278.

### **Gout in China**

Ji, A., Tian, Z., Shi, Y., Takei, R., Chang, S.-J., Yip, R. M. L., Yin, H. & Li, C., Mar 2025, In: Gout, Urate, and Crystal Deposition Disease. 3, 1, 1.

### **Uses of MPI inhibitors in the treatment of tumors**

Wang, Yongqiang (Inventor), Yin, Huiyong (Inventor), YIN, H. (Inventor) & ZHONG, S. (Inventor), 11 Feb 2025, (Accepted/In press/Filed) Priority No. 202510153079.X

### **ALDOB/KAT2A interactions epigenetically modulate TGF-β expression and T cell functions in hepatocellular carcinogenesis**

Yin, C. (Co-first Author), Zhang, C. (Co-first Author), Wang, Y., Liu, G., Wang, N., Liang, N., Zhang, L., Tu, Q., Lv, J., Jiang, H., Ma, H., Du, C., Li, M., He, X., Chen, S., Guo, J., Li, S., Qin, J., Li, N. & Tao, Y. & 1 others, Yin, H., Jan 2025, In: Hepatology. 81, 1, p. 77-93 17 p.

### **Inhibited peroxidase activity of peroxiredoxin 1 by palmitic acid exacerbates nonalcoholic steatohepatitis in male mice**

Yin, W., Xu, H., Bai, Z., Wu, Y., Zhang, Y., Liu, R., Wang, Z., Zhang, B., Shen, J., Zhang, H., Chen, X., Ma, D., Shi, X., Yan, L., Zhang, C., Jiang, H., Chen, K., Guo, D., Niu, W. & Yin, H. & 3 others, Zhang, W. J., Luo, C. & Xie, X., 2025, In: Nature Communications. 16, 598.

**Fatty acid oxidation-induced HIF-1 $\alpha$  activation facilitates hepatic urate synthesis through upregulating NT5C2 and XDH**  
Liang, N. (Co-first Author), Yuan, X. (Co-first Author), Zhang, L., Shen, X., Zhong, S., Li, L., Li, R., Xu, X., Chen, X., Yin, C., Guo, S., Ge, J., Zhu, M., Tao, Y., Chen, S., Qian, Y., Dalbeth, N., Merriman, T. R., Terkeltaub, R. & Li, C. & 2 others, Xia, Q. & Yin, H., Oct 2024, In: *Life Metabolism*. 3, 5, loae018.

**Biomarker discovery and metabolic profiling in serum of cardiovascular disease patients with untargeted metabolomics and machine learning**

Shen, X., Guo, S., Liang, N., Zhao, M., Wang, C., Li, Z., Yan, D., Zheng, L. & Yin, H., Jun 2024, In: *Clinical and Translational Medicine*. 14, 6, 6 p., e1722.

**A stable liver-specific urate oxidase gene knockout hyperuricemia mouse model finds activated hepatic de novo purine biosynthesis and urate nephropathy**

Pang, L. (Co-first Author), Liang, N. (Co-first Author), Li, C. (Co-first Author), Merriman, T. R., Zhang, H., Yan, F., Sun, W., Li, R., Xue, X., Liu, Z., Wang, C., Cheng, X., Chen, S., Yin, H., Dalbeth, N. & Yuan, X., Mar 2024, In: *Biochimica et Biophysica Acta - Molecular Basis of Disease*. 1870, 3, 167009.

**7-Dehydrocholesterol dictates ferroptosis sensitivity**

Li, Y. (Co-first Author), Ran, Q. (Co-first Author), Duan, Q. (Co-first Author), Jin, J. (Co-first Author), Wang, Y., Yu, L., Wang, C., Zhu, Z., Chen, X., Weng, L., Li, Z., Wang, J., Wu, Q., Wang, H., Tian, H., Song, S., Shan, Z., Zhai, Q., Qin, H. & Chen, S. & 5 others, Fang, L., Yin, H., Zhou, H., Jiang, X. & Wang, P., 8 Feb 2024, In: *Nature*. 626, 7998, p. 411–418

Purine Metabolic Pathway Alterations and Serum Urate Changes after Oral Inosine Loading in Male Chinese Volunteers  
Liang, N., Wu, M., Gao, Y., Yang, S., Lin, X., Sun, H., Liang, N., Yin, H., Qu, S. & Chen, H., Jan 2024, In: *Molecular Nutrition and Food Research*. 68, 2, 2300115.

**Metabolomics and Machine Learning Identify Metabolic Differences and Potential Biomarkers for Frequent versus Infrequent Gout Flares**

Wang, M., Li, R., Qi, H., Pang, L., Cui, L., Liu, Z., Lu, J., Wang, R., Hu, S., Liang, N., Tao, Y., Dalbeth, N., Merriman, T. R., Terkeltaub, R., Yin, H. & Li, C., Dec 2023, In: *Arthritis and Rheumatology*. 75, 12, p. 2252-2264

**Dr. L. Jackson Roberts II**

Davies, S. S., Fessel, J. P., Milne, G. L., Moore, K. & Yin, H., Oct 2023, 3 p.

**Metabolic classification suggests the GLUT1/ALDOB/G6PD axis as a therapeutic target in chemotherapy-resistant pancreatic cancer**

Li, Y., Tang, S., Shi, X., Lv, J., Wu, X., Zhang, Y., Wang, H., He, J., Zhu, Y., Ju, Y., Zhang, Y., Guo, S., Yang, W., Yin, H., Chen, L., Gao, D. & Jin, G., 19 Sept 2023, In: *Cell Reports Medicine*. 4, 9, 101162.

**The role of aldehyde dehydrogenase 2 in cardiovascular disease**

Zhang, J. (Co-first Author), Guo, Y. (Co-first Author), Zhao, X. (Co-first Author), Pang, J., Pan, C., Wang, J., Wei, S., Yu, X., Zhang, C., Chen, Y., Yin, H. & Xu, F., Jul 2023, In: *Nature Reviews Cardiology*. 20, 7, p. 495–509

**Perivascular adipose tissue: Fine-tuner of vascular redox status and inflammation**

Cheng, C. K., Ding, H., Jiang, M., Yin, H., Gollasch, M. & Huang, Y., Jun 2023, In: *Redox Biology*. 62, 102683.

**Cardioprotection by Peroxidase Activity of Prostaglandin H Synthases in Ischemia/Reperfusion Injury**

Liu, G., Liu, Q., Wan, N., Shen, X., Cui, H., Dong, C., Zhang, X., Yin, H., Wang, J., Funk, C. D. & Yu, Y., 9 May 2023, In: *Circulation*. 147, 19, p. 1467-1470

Goliath induces inflammation in obese mice by linking fatty acid  $\beta$ -oxidation to glycolysis

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### **Metabolomics in Hyperuricemia and Gout**

Li, R., Liang, N., Tao, Y. & Yin, H., Mar 2023, In: Gout, Urate, and Crystal Deposition Disease. 1, 1, p. 49-61 13 p.

Prognostic value of gut microbiota-derived metabolites in patients with ST-segment elevation myocardial infarction

Zhao, S., Tian, Y., Wang, S., Yang, F., Xu, J., Qin, Z., Liu, X., Cao, M., Zhao, P., Zhang, G., Wang, Z., Zhang, Y., Wang, Y., Lin, K., Fang, S., Wang, Z., Han, T., Tian, M., Yin, H. & Tian, J. & 1 others, Yu, B., Mar 2023, In: American Journal of Clinical Nutrition. 117, 3, p. 499-508 10 p.

Plasma Metabolomics Reveals Systemic Metabolic Alterations of Subclinical and Clinical Hypothyroidism

Shao, F. (Co-first Author), Li, R. (Co-first Author), Guo, Q., Qin, R., Su, W., Yin, H. (Co-last Author) & Tian, L. (Co-last Author), Jan 2023, In: Journal of Clinical Endocrinology and Metabolism. 108, 1, p. 13-25 13 p.

### **Relevance of PUFA-derived metabolites in seminal plasma to male infertility**

Chen, X., Wu, B., Shen, X., Wang, X., Ping, P., Miao, M., Liang, N., Yin, H., Shi, H., Qian, J. & Zhang, T., 2023, In: Frontiers in Endocrinology. 14, 1138984.

Associations of erythrocyte polyunsaturated fatty acids with incidence of stroke and stroke types in adult Chinese: a prospective study of over 8000 individuals

China Kadoorie Biobank Collaborative Group, 19 authors, including, Sun, L. (Co-first Author), Yin, H., Chen, Z. (Co-last Author) & Lin, X. (Co-last Author), Sept 2022, In: European Journal of Nutrition. 61, 6, p. 3235-3246

Colchicine prophylaxis is associated with fewer gout flares after COVID-19 vaccination

Lu, J. (Co-first Author), He, Y. (Co-first Author), Terkeltaub, R. (Co-first Author), Sun, M. (Co-first Author), Ran, Z. (Co-first Author), Xu, X., Wang, C., Li, X., Hu, S., Xue, X., Yan, F., Zhang, H., Yin, H., Shi, Y., Dalbeth, N. & Li, C., Aug 2022, In: Annals of the Rheumatic Diseases. 81, 8, p. 1189-1193

Follicular free fatty acid metabolic signatures and their effects on oocyte competence in non-obese PCOS patients

Feng, Y., Qi, J., Xue, X., Li, X., Liao, Y., Sun, Y., Tao, Y., Yin, H., Liu, W., Li, S. & Huang, R., Jul 2022, In: Reproduction. 164, 1, p. 1-8

Fatty Acid Profiling in Facial Sebum and Erythrocytes From Adult Patients With Moderate Acne

Cao, K., Liu, Y., Liang, N., Shen, X., Li, R., Yin, H. & Xiang, L., Jun 2022, In: Frontiers in Physiology. 13, 921866.

Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo

Murphy, M. P., Bayir, H., Belousov, V., Chang, C. J., Davies, K. J. A., Davies, M. J., Dick, T. P., Finkel, T., Forman, H. J., Janssen-Heininger, Y., Gems, D., Kagan, V. E., Kalyanaraman, B., Larsson, N.-G., Milne, G. L., Nyström, T., Poulsen, H. E., Radi, R., Van Remmen, H. & Schumacker, P. T. & 5 others, Thornalley, P. J., Toyokuni, S., Winterbourn, C. C., Yin, H. & Halliwell, B., Jun 2022, In: Nature Metabolism. 4, 6, p. 651-662

Aldehyde dehydrogenase 2 and PARP1 interaction modulates hepatic HDL biogenesis by LXR $\alpha$ -mediated ABCA1 expression

Li, L., Zhong, S., Li, R., Liang, N., Zhang, L., Xia, S., Xu, X., Chen, X., Chen, S., Tao, Y. & Yin, H., Apr 2022, In: JCI insight. 7, 7, e15586.

Different Isocaloric Meals and Adiposity Modify Energy Expenditure and Clinical and Metabolomic Biomarkers during Resting and Exercise States in a Randomized Crossover Acute Trial of Normal-Weight and Overweight/Obese Men

Xiong, Q., Sun, L., Luo, Y., Yun, H., Shen, X., Yin, H., Chen, X. & Lin, X., Apr 2022, In: Journal of Nutrition. 152, 4, p. 1118-1129

Follicular fluid lipidomic profiling reveals potential biomarkers of polycystic ovary syndrome: A pilot study

Ding, Y., Jiang, Y., Zhu, M., Zhu, Q., He, Y., Lu, Y., Wang, Y., Qi, J., Feng, Y., Huang, R., Yin, H., Li, S. & Sun, Y., 2022, In: Frontiers in Endocrinology. 13, 960274.

Fructose-1,6-Bisphosphate Aldolase B Depletion Promotes Hepatocellular Carcinogenesis Through Activating Insulin Receptor Signaling and Lipogenesis

Liu, G., Wang, N., Zhang, C., Li, M., He, X., Yin, C., Tu, Q., Shen, X., Zhang, L., Lv, J., Wang, Y., Jiang, H., Chen, S., Li, N., Tao, Y. & Yin, H., Dec 2021, In: Hepatology. 74, 6, p. 3037-3055 19 p.

Serum Metabolomics Identifies Dysregulated Pathways and Potential Metabolic Biomarkers for Hyperuricemia and Gout  
Shen, X., Wang, C., Liang, N., Liu, Z., Li, X., Zhu, Z.-J., Merriman, T. R., Dalbeth, N., Terkeltaub, R., Li, C. & Yin, H., Sept 2021, In: *Arthritis and Rheumatology*. 73, 9, p. 1738-1748

The ZMYND8-regulated mevalonate pathway endows YAP-high intestinal cancer with metabolic vulnerability  
Pan, Q., Zhong, S., Wang, H., Wang, X., Li, N., Li, Y., Zhang, G., Yuan, H., Lian, Y., Chen, Q., Han, Y., Guo, J., Liu, Q., Qiu, T., Jiang, J., Li, Q., Tan, M., Yin, H., Peng, J. & Xiao, Y. & 1 others, Qin, J., 1 Jul 2021, In: *Molecular Cell*. 81, 13, p. 2736-2751.e8

Acetaldehyde Dehydrogenase 2 regulates HMG-CoA reductase stability and cholesterol synthesis in the liver  
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Changes in plasma metabolome profiles following oral glucose challenge among adult chinese  
Huo, S., Sun, L., Zong, G., Shen, X., Zheng, H., Jin, Q., Li, H., Yin, H. & Lin, X., May 2021, In: *Nutrients*. 13, 5, 1474.

SIRT1 Deacetylates TET2 and Promotes Its Ubiquitination Degradation to Achieve Neuroprotection Against Parkinson's Disease  
Li, X., Liu, T., Wu, T.-T., Feng, Y., Peng, S.-J., Yin, H. & Wu, Y.-C., Apr 2021, In: *Frontiers in Neurology*. 12, 652882.

Loss of STAT5A promotes glucose metabolism and tumor growth through miRNA-23a-AKT signaling in hepatocellular carcinoma  
Jiang, Y., Tao, Y., Zhang, X., Wei, X., Li, M., He, X., Zhou, B., Guo, W., Yin, H. & Cheng, S., Feb 2021, In: *Molecular Oncology*. 15, 2, p. 710-724

p38 $\alpha$  in macrophages aggravates arterial endothelium injury by releasing IL-6 through phosphorylating megakaryocytic leukemia 1  
Zhang, M. (Co-first Author), Gao, J. (Co-first Author), Zhao, X., Zhao, M., Ma, D., Zhang, X., Tian, D., Pan, B., Yan, X., Wu, J., Meng, X., Yin, H. & Zheng, L., Jan 2021, In: *Redox Biology*. 38, 101775.

Ferroptosis and cardiovascular disease: role of free radical-induced lipid peroxidation  
Chen, X., Li, X., Xu, X., Li, L., Liang, N., Zhang, L., Lv, J., Wu, Y.-C. & Yin, H., 2021, In: *Free Radical Research*. 55, 4, p. 405-415

Niacin ameliorates ulcerative colitis via prostaglandin D<sub>2</sub>-mediated D prostanoid receptor 1 activation  
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Loss of hepatic aldolase B activates Akt and promotes hepatocellular carcinogenesis by destabilizing the Aldob/Akt/PP2A protein complex  
He, X., Li, M., Yu, H., Liu, G., Wang, N., Yin, C., Tu, Q., Narla, G., Tao, Y., Cheng, S. & Yin, H., Dec 2020, In: *PLoS Biology*. 18, 12, e3000803.

Polyphenolic Proanthocyanidin-B2 suppresses proliferation of liver cancer cells and hepatocellular carcinogenesis through directly binding and inhibiting AKT activity  
Liu, G. (Co-first Author), Shi, A. (Co-first Author), Wang, N., Li, M., He, X., Yin, C., Tu, Q., Shen, X., Tao, Y., Wang, Q. & Yin, H., Oct 2020, In: *Redox Biology*. 37, 101701.

Synthesis, crystal structure and biological activities of phenyl(6-phenyl-3-*p*-tolyl-6,7-dihydro-5*H*-[1,2,4]triazolo-[3,4-*b*][1,3,4]thiadiazin-7-yl)methanone  
DING, Q.-C., ZOU, Y.-H., LI, Q.-L., HUANG, J.-J., ZHANG, L.-X. & YIN, H.-Y., Aug 2020, In: *Jiegou Huaxue*. 39, 8, p. 1531-1538

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Yeast  $\beta$ -D-glucan exerts antitumour activity in liver cancer through impairing autophagy and lysosomal function, promoting reactive oxygen species production and apoptosis

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Development of a sensitive and quantitative method for the identification of two major furan fatty acids in human plasma

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贵州人群精浆中多不饱和脂肪酸代谢产物的初步研究

吴斌, 朱明江, 纪红蕾, 毛燕燕, 吴峻, 顾一骅, 施惠娟, 尹慧勇, 王磊 & 郑菊芬, 25 Mar 2020, In: *中华生殖与避孕杂志*. 40, 3, p. 214-218

Synthesis and anticancer activity of benzotriazole derivatives

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Elevated levels of arachidonic acid metabolites in follicular fluid of PCOS patients

Li, S., Qi, J., Tao, Y., Zhu, Q., Huang, R., Liao, Y., Yue, J., Liu, W., Zhao, H., Yin, H. & Sun, Y., Feb 2020, In: *Reproduction*. 159, 2, p. 159-169

Ceramide subclasses identified as novel lipid biomarker elevated in women with polycystic ovary syndrome: a pilot study employing shotgun lipidomics

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An update on lipid oxidation and inflammation in cardiovascular diseases

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The effect of the EP3 antagonist DG-041 on male mice with diet-induced obesity

Ceddia, R. P., Downey, J. D., Morrison, R. D., Kraemer, M. P., Davis, S. E., Wu, J., Lindsley, C. W., Yin, H., Daniels, J. S. & Breyer, R. M., Oct 2019, In: *Prostaglandins and Other Lipid Mediators*. 144, 106353.

TSC1/mTOR-controlled metabolic-epigenetic cross talk underpins DC control of CD8<sup>+</sup> T-cell homeostasis

Shi, L., Chen, X., Zang, A., Li, T., Hu, Y., Ma, S., Lu, M., Yin, H., Wang, H., Zhang, X., Zhang, B., Leng, Q., Yang, J. & Xiao, H., Aug 2019, In: *PLoS Biology*. 17, 8, e3000420.

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Quantification of F-ring isoprostane-like compounds (F<sub>4</sub>- neuroprostanes) derived from docosahexaenoic acid in vivo in humans by a stable isotope dilution mass spectrometric assay  
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## Grants

### Projects1: Fructose uptake and metabolic homeostasis

#### **CRF: A High-performance Mass Spectrometry Platform for Next-generation Proteomics and Metabolomics**

ZHANG, L. (Principal Investigator / Project Coordinator), LAI, K. O. (Co-Principal Investigator), NG, C. F. (Co-Principal Investigator), SUN, H. (Co-Principal Investigator), XIA, J. (Co-Principal Investigator), YAN, J. (Co-Principal Investigator), YANG, M. (Co-Principal Investigator), Yao, Z. (Co-Principal Investigator), YIN, H. (Co-Principal Investigator) & ZHAO, Q. (Co-Principal Investigator)

30/06/25 → ...

Project: Research

#### **GRF: ALDOB Modulates Beta-Cell Insulin Secretion in Diabetes Through Insulin Receptor Pathways**

YIN, H. (Principal Investigator / Project Coordinator)

1/01/25 → ...

Project: Research

#### **CRF: Cell Intrinsic and Extrinsic Effects of Astrocytes Lipid Metabolism in Spinal Muscular**

LIU, A. J. (Principal Investigator / Project Coordinator), CHAN, H. S. S. (Co-Principal Investigator), CHEUNG, C. H. M. (Co-Principal Investigator), HUANG, Y. (Co-Principal Investigator), YIN, H. (Co-Principal Investigator), HUI, C.-C. (Co-Principal Investigator) & JAMES, B. (Co-Principal Investigator)

1/06/25 → ...

Project: Research

#### **CRF-Sub-pj: Cell Intrinsic and Extrinsic Effects of Astrocytes Lipid Metabolism in Spinal Muscular**

YIN, H. (Principal Investigator / Project Coordinator)

1/06/25 → ...

Project: Research

#### **CRF: Control of Food Intake and Metabolism by a Sensory Cortex-periphery Axis**

LAU, C. Y. G. (Principal Investigator / Project Coordinator), LAI, S. W. C. (Co-Principal Investigator), YIN, H. (Co-Principal Investigator) & ZHANG, L. (Co-Principal Investigator)

1/03/26 → ...

Project: Research

**ASDC\_Sub: Futian Research Project: CEST MRI for Assessing Molecular Abnormalities in Aging Brain**

CHAN, W. Y. K. (Principal Investigator / Project Coordinator), LEE, Y. (Co-Investigator), YIN, H. (Co-Investigator) & ZHAO, X. (Co-Investigator)

1/04/24 → ...

Project: Research

**ASDC\_Sub: Futian Research Project: Single-Cell Metabolomics: Towards Applications in Cancer and Aging**

YIN, H. (Principal Investigator / Project Coordinator), YANG, M. (Co-Investigator) & ZHANG, L. (Co-Investigator)

1/04/24 → ...

Project: Research

**DON\_RMG: IDM Cluster 1: Biomarkers, Diagnostics and Therapeutics - RMGS**

ZHANG, Y. (Principal Investigator / Project Coordinator) & YIN, H. (Co-Principal Investigator)

1/09/24 → ...

Project: Research

**TBRS: Single-Cell Multi-Omics Study of Atherosclerotic Vascular Disease: Narrowing the Gap Between Bench and Bedside**

HUANG, Y. (Principal Investigator / Project Coordinator), CAI, Z. (Co-Principal Investigator), LUI, K.O.-L. (Co-Principal Investigator), MA, R. C. W. (Co-Principal Investigator), WANG, L. (Co-Principal Investigator), Xu, A. (Co-Principal Investigator), YU, W. (Co-Principal Investigator), Chan, T. F. (Co-Investigator), TIAN, X. (Co-Investigator), XIA, Y. (Co-Investigator), YIN, H. (Co-Investigator), YIU, K. H. (Co-Investigator), ZHANG, L. (Co-Investigator), ZHENG, Z. (Co-Investigator), ZHOU, B. (Co-Investigator) & HAN, Q. (Collaborator)

1/01/24 → ...

Project: Research

**TBRS-Sub-pj: Single-Cell Multi-Omics Study of Atherosclerotic Vascular Disease: Narrowing the Gap Between Bench and Bedside**

YIN, H. (Principal Investigator / Project Coordinator)

1/01/24 → ...

Project: Research

**SZSMRF-SRI: 果糖影响肝细胞癌免疫微环境的作用与机制研究**

YIN, H. (Principal Investigator / Project Coordinator)

1/01/26 → ...

Project: Research

**SZSMRF-SRI: 肝癌免疫的代谢机制研究**

YIN, H. (Principal Investigator / Project Coordinator)

1/01/24 → ...

Project: Research

**Project 2 Physiological and pathophysiological basis for enzymatic plasticity**

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