

基础医学院研究生导师个人信息（模板）

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	出 生 年	1971	系/教研室	药理
	职 称	教授	职 务	
	导师类型	博导	最高学历/学位/毕业院校	博士
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学科专业	药理学	研究方向	代谢性疾病发病机制及药物干预	
人才称号	山西省学术技术带头人，山西省高等学校优秀青年学术带头人，山西省科教兴晋突出贡献专家			
学术兼职	中国生物物理学会代谢生物学会理事，山西省药学会理事，山西省药理学会理事，山西省生理学会理事，山西省医师协会药物及医疗器械临床试验专业委员会常务委员			
学习工作经历	<p>教育经历</p> <p>(1) 2001.9 - 2004.7, 山西医科大学, 生理学, 博士</p> <p>(2) 1996.9 - 1999.7, 山西医科大学, 药理学, 硕士</p> <p>(3) 1989.9 - 1994.7, 山西医科大学, 临床医学, 学士</p> <p>科研与学术工作经历</p> <p>(1) 1994-至今, 山西医科大学, 教师</p> <p>(2) 2007.4-2010.7, Department of Medicine, University of Toronto, 博士后, 合作导师: Herbert Gaisano</p> <p>(3) 2004.11-2007.3, Department of Physiology, University of Toronto, 博士后, 合作导师: Michael Wheeler</p>			
主持的科研/教学项目	<ol style="list-style-type: none"> 1. 国家自然科学基金面上项目: Kv 通道介导罗氟司特促进胰岛素分泌和抑制 β 细胞凋亡双重效应及其机制研究 (81973378), 55 万, 2020-2023, 负责人。 2. 国家自然科学基金面上项目: AT1 受体介导的胰岛素分泌特点及机制研究 (81670710), 55 万, 2017-2020, 负责人。 3. 国家自然科学基金面上项目: 骨钙素促胰岛素分泌的离子通道调控机制研究 (81273564), 45 万, 2013-2016, 负责人。 4. 国家自然科学基金面上项目: Kv 通道介导 P2Y 受体调控的葡萄糖依赖性促胰岛素分泌 (81070662), 36 万, 2011-2013, 负责人。 5. 山西省专利转化专项计划项目: 一种小分子 GLP-1R 激动剂及其在代谢性疾病治疗上的应用 (202304016), 10 万, 2023.4-2024.3, 负责人。 			

	<ol style="list-style-type: none"> 6. 中央引导地方科技发展资金：靶向 GLP-1R 的抗糖尿病减重创新药物临床前研究（YDZJSX2022A059），40 万，2022.7-2025.6，负责人。 7. 亚宝药业集团股份有限公司横向课题：YBHY012 治疗小细胞肺癌小鼠模型药效学研究，12 万，2020，负责人。 8. 山西省高等学校优秀成果培育项目：嘌呤（P2Y）受体激动剂促胰岛素分泌作用及机制研究（2019KJ022），5 万，2019-2021，负责人。 9. 西南医科大学医学电生理学重点实验室开放基金：罗氟司特通过 KV 通道调控胰岛素分泌和细胞凋亡的作用机制研究，5 万，2019-2021，负责人。 10. 亚宝药业集团股份有限公司横向课题：“降糖胶囊”糖尿病药物干预实验研究，15.9 万，2019，负责人。 11. 山西省回国留学人员科研资助项目：血管紧张素 II 受体调控胰岛素分泌及机制研究（2017-053），3 万，2017.7-2020.7，负责人 12. 山西省留学回国人员科技活动项目择优资助:骨钙素对胰岛功能的调控作用研究.（2016-97）5 万, 2016-2018, 负责人. 13. 山西省自然科学基金：嘌呤受体激动剂促胰岛素分泌作用机制研究(2012011039-8)，5 万，2012-2014，负责人。 14. 山西省回国留学人员科研资助项目：P2Y 受体激动剂促胰岛素分泌的机制研究(2012-046)，6 万，2012-2014，负责人。 15. 山西省留学人员科技活动项目择优资助：P2Y 受体对胰岛素分泌作用的调控机制研究(2011-762)，12 万，2011-2013，负责人。 16. 山西省高等学校优秀青年学术带头人(2011-24)，20 万，2011-2013，负责人。
<p style="text-align: center;">代表性成果 (论文/专利/专著等)</p>	<p>SCI 论文：</p> <ol style="list-style-type: none"> 1. Xue H, Xing HJ, Wang B, Fu C, Zhang YS, Qiao X, Guo C, Zhang XL, Hu B, Zhao X, Deng LJ, Zhu XC, Zhang Y, Liu YF. Cinchonine, a Potential Oral Small-Molecule Glucagon-Like Peptide-1 Receptor Agonist, Lowers Blood Glucose and Ameliorates Non-Alcoholic Steatohepatitis. Drug Des Devel Ther. 2023 May 11;17:1417-1432. doi: 10.2147/DDDT.S404055. PMID:

	<p>37197367; PMID: PMC10184894.</p> <ol style="list-style-type: none"> <li data-bbox="539 255 1359 479">2. Li M, Zhang J, Yang G, Zhang J, Han M, Zhang Y, Liu Y. Effects of Anterior Pituitary Adenomas' Hormones on Glucose Metabolism and Its Clinical Implications. <i>Diabetes Metab Syndr Obes.</i> 2023 Feb 13;16:409-424. doi: 10.2147/DMSO.S397445. PMID: 36816815; PMID: PMC9937076. <li data-bbox="539 495 1359 763">3. Zhao X, Deng L, Ren L, Yang H, Wang B, Zhu X, Zhang X, Guo C, Zhang Y, Liu Y. VPAC2 receptor mediates VIP-potentiated insulin secretion via ion channels in rat pancreatic β cells. <i>Exp Cell Res.</i> 2023 Feb 15;423(2):113471. doi: 10.1016/j.yexcr.2023.113471. Epub 2023 Jan 13. PMID: 36642263. <li data-bbox="539 779 1359 1048">4. Dan Yang, Xintong Hou, Guimei Yang, Mengnan Li, Jian Zhang, Minmin Han, Yi Zhang, Yunfeng Liu. Effects of the POMC System on Glucose Homeostasis and Potential Therapeutic Targets for Obesity and Diabetes. <i>Diabetes Metabolic Syndrome and Obesity-Targets and Therapy.</i> 2022 Sep 25;15:2939-2950. doi: 10.2147/DMSO.S380577 <li data-bbox="539 1064 1359 1288">5. Xintong Hou, Dan Yang, Guimei Yang, Mengnan Li, Jian Zhang, Jiaxin Zhang, Yi Zhang, Yunfeng Liu. Therapeutic potential of vasoactive intestinal peptide and its receptor VPAC2 in type 2 diabetes. <i>Frontiers in Endocrinology.</i> 2022 Sep 20;13:984198. doi: 10.3389/fendo.2022.984198. <li data-bbox="539 1303 1359 1527">6. Zhao X, Cui L, Zhang Y, Guo C, Deng L, Wen Z, Lu Z, Shi X, Xing H, Liu Y, Zhang Y. Screening for Potential Therapeutic Agents for Non-Small Cell Lung Cancer by Targeting Ferroptosis. <i>Front Mol Biosci.</i> 2022 Jul 14;9:917602. doi: 10.3389/fmolb.2022.917602. eCollection 2022. (2 <input checked="" type="checkbox"/>) <li data-bbox="539 1543 1359 1856">7. Tao Liu, Lijuan Cui, Huan Xue, Xiaohua Yang, Mengmeng Liu, Linping Zhi, Huanhuan Yang, Zhihong Liu, Min Zhang, Qing Guo, Peifeng He, Yunfeng Liu, Yi Zhang. Telmisartan Potentiates Insulin Secretion via Ion Channels, Independent of the AT1 Receptor and PPARγ. <i>Front Pharmacol.</i> 2021 Sep 14;12:739637. doi: 10.3389/fphar.2021.739637. eCollection 2021. (2 <input checked="" type="checkbox"/>) <li data-bbox="539 1872 1359 2007">8. Xin Zhao, Minghe Wang, Lijuan Cui, Chao Fu, Zhihong Lu, Zhitong Wen, Huan Xue, Yunfeng Liu* and Yi Zhang*. GLP-1 Receptor Agonists: Beyond Its Pancreatic Effects. <i>Front</i>
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9. Zhihong Liu, Huanhuan Yang, Linping Zhi, Huan Xue, Zhihong Lu, Yanli Zhao, Lijuan Cui, Tao Liu, Shouan Ren, Peifeng He, Yunfeng Liu and Yi Zhang*. Sphingosine 1-phosphate stimulates insulin secretion and improves cell survival by blocking voltage-dependent K⁺ channels in β cells. *Frontiers in Pharmacology*, 2021. 12 : 683674. doi: 10.3389/fphar.2021.683674 (2 ☒)
 10. Xiaohua Yang, Min Zhang, Zhihong Lu, Linping Zhi, Huan Xue, Tao Liu, Mengmeng Liu, Lijuan Cui, Zhihong Liu, Peifeng He, Yunfeng Liu* and Yi Zhang*. Novel Small Molecule Glucagon-Like Peptide-1 Receptor Agonist S6 Stimulates Insulin Secretion From Rat Islets. *Frontiers in Pharmacology*, 2021 Apr 29; 12:664802. doi: 10.3389/fphar.2021.664802. eCollection 2021. (2 ☒)
 11. Lijuan Cui, Huan Xue, Zhitong Wen, Zhihong Lu, Yunfeng Liu, Yi Zhang*. Prognostic roles of metabolic reprogramming-associated genes in patients with hepatocellular carcinoma. *Aging*, 2020 Nov 12;12(21):22199-22219. doi: 10.18632/aging.104122. Epub 2020 Nov 12. (1 ☒)
 12. T. BAI, H. YANG, H. WANG, L. ZHI, T. LIU, L. CUI, W. LIU, Y. WANG, M. ZHANG, Y. LIU and Y. ZHANG*, Inhibition of voltage-gated K⁺ channels mediates docosahexaenoic acid-stimulated insulin secretion in rat pancreatic β -cells.[J]. *Food & Function*, 2020, DOI:10.1039/D0FO01891K. (1 ☒)
 13. Minmin Han, Xiaoming Cao, Changjian Zhao, Luyang Yang, Nan Yin, Pengliang Shen, Jin Zhang, Fei Gao, Yi Ren, Dong Liang, Jing Yang, Yi Zhang* and Yunfeng Liu*. Assessment of Glycometabolism Impairment and Glucose Variability Using Flash Glucose Monitoring System in Patients With Adrenal Diseases. *Front Endocrinol (Lausanne)*. 2020 September;11 doi: 10.3389/fendo.2020.544752 (2 ☒)
 14. Cui LJ, Bai T, Zhi LP, Liu ZH, Liu T, Xue H, Yang HH, Yang XH, Zhang M, Niu YR, Liu YF, Zhang Y*. Analysis of long noncoding RNA-associated competing endogenous RNA network in glucagon-like peptide-1 receptor agonist-mediated protection in β cells. *World J Diabetes* 2020; 11(9): 374-390

15. Mengmeng Liu, Lele Ren, Xiangqin Zhong, Yaqin Ding, Tao Liu, Zhihong Liu, Xiaohua Yang, Lijuan Cui, Lijun Yang, Yanying Fan, Yunfeng Liu, Yi Zhang*. D2-Like Receptors Mediate Dopamine-Inhibited Insulin Secretion via Ion Channels in Rat Pancreatic β -Cells. *Front Endocrinol (Lausanne)*. 2020 Apr 7;11:152. (通讯作者)2区, 3.644
16. Liu M, Yang X, Bai T, Liu Z, Liu T, Wang Y, Cui L, Liu Y, Zhang Y*. PACAP stimulates insulin secretion by PAC1 receptor and ion channels in β -cells. *Cell Signal*. 2019 Sep;61:48-56. (通讯作者)2区, 3.388
17. Liu Y, Zhong X, Ding Y, Ren L, Bai T, Liu M, Liu Z, Guo Y, Guo Q, Zhang Y, Yang J, Zhang Y*. Inhibition of voltage-dependent potassium channels mediates cAMP-potentiated insulin secretion in rat pancreatic β cells. *Islets*. 2017 Mar 4;9(2):11-18. (通讯作者). 4区, 1.879
18. Gao J, Bai T, Ren L, Ding Y, Zhong X, Wang H, Guo Y, Li J, Liu Y, Zhang Y*. The PLC/PKC/Ras/MEK/Kv channel pathway is involved in uncarboxylated osteocalcin-regulated insulin secretion in rats. *Peptides*. 2016 Dec;86:72-79. (通讯作者)3区, 2.659
19. Zhang Y*, Ding Y, Zhong X, Guo Q, Wang H, Gao J, Bai T, Ren L, Guo Y, Jiao X, Liu Y. Geniposide acutely stimulates insulin secretion in pancreatic β -cells by regulating GLP-1 receptor/cAMP signaling and ion channels. *Mol Cell Endocrinol*. 2016 Jul 15;430:89-96. (通讯作者)2区, 3.693
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21. Zhang Y*, Wang H, Guo Q, Li X, Gao J, Liu Y, Yang C, Niu L, Yang J. PI3K is involved in P2Y receptor-regulated cAMP/Epac/Kv channel signaling pathway in pancreatic β cells. *Biochem Biophys Res Commun*. 2015 Oct 2;465(4):714-8. (通讯作者)3区, 2.705
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P2Y purinergic receptor-regulated insulin secretion is mediated by a cAMP/Epac/Kv channel pathway. *Biochem Biophys Res Commun.* 2015 May 8;460(3):850-6. (通讯作者)3区, 2.705

23. Li X, Guo Q, Gao J, Yang J, Zhang W, Liang Y, Wu D, Liu Y*, Weng J, Li Q, Zhang Y*. The adenylyl cyclase inhibitor MDL-12,330A potentiates insulin secretion via blockade of voltage-dependent K⁺ channels in pancreatic beta cells. *PLOS one.* 8(10):e77934.2013 (通讯作者)3区, 2.776
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25. Zhu D*, Zhang Y*, Lam PP*, Dolai S*, Liu Y*, Cai EP, Choi D, Schroer SA, Kang Y, Allister EM, Qin T, Wheeler MB, Wang CC, Hong WJ, Woo M, Gaisano HY. Dual Role of VAMP8 in Regulating Insulin Exocytosis and Islet β Cell Growth. *Cell Metab.* 2012 Aug 8;16(2):238-49. (*共同第一作者)top 1区, 22.415
26. Kang Y*, Zhang Y*, Liang T*, Leung YM, Ng B, Xie H, Chang N, Chan J, Shyng SL, Tsushima R, Gaisano HY. ATP modulates interaction of syntaxin-1A with sulfonylurea receptor 1 to regulate pancreatic beta-cell KATP channels. *J Biol Chem.* 2011 Feb 18;286(7):5876-83. (*共同第一作者)2区, 4.106
27. Zhang Y, Kang Y, Lam PPL, Chang N, Liu Y, Olkkonen VM, Gaisano HY. Cab45b, a Munc18b Interacting-Partner, Regulates Exocytosis in Pancreatic Beta Cells. *J Biol Chem.* 2009 Jul 31;284(31):20840-7, (第一作者)2区, 4.106
28. Zhang Y*, Liu Y*, Qu J, Zhang N, Diao J, Stribos P, Tsushima R, Robinson RB, Gaisano HY, Wang Q, Wheeler MB. Functional Characterization of HCN Channels in Rat Pancreatic β Cells. *Journal of Endocrinology* 2009 Oct;203(1):45-53, (通讯作者)2区, 4.381
29. Zhang Y, Zhang N, Gyulkhandanyan AV, Xu E, Gaisano HY, Wheeler MB, Wang Q. Presence of functional hyperpolarisation-activated cyclic nucleotide-gated channels in clonal alpha cell lines and rat islet alpha cells. *Diabetologia.* 2008 Dec;51(12):2290-8. (第一作者)2区, 7.113
30. Xu E*, Kumar M*, Zhang Y, Ju W, Obata T, Zhang N, Liu S, Wendt A, Deng S, Ebian Y, Wheeler MB, Braun M, Wang Q. Intra-islet insulin suppresses glucagon release via GABA-GABAA

	<p>receptor system. Cell Metabolism 2006; 3(1):47-58 (第二作者) top 1 区, 22.415</p> <p>发明专利:</p> <ol style="list-style-type: none"> 1. 一种用于非酒精性脂肪肝病的化合物、组合物及其用途。专利号: ZL 2022 1 0878875.6 授权日期: 2023 年 08 月 25 日 2. 一种茴香霉素衍生物以及茴香霉素和其衍生物作为 GLP-1R 激动剂的用途。专利号: ZL 2021 1 0103556.3; 授权日期: 2023 年 05 月 30 日 3. 一种小分子 GLP-1R 激动剂及其应用。专利号: ZL 2020 1 0498224.5。授权日期: 2021.4.23 4. 一种便于控制注射量的胰岛素注射笔。专利号: ZL 2020 2 2755790.8; 授权日期: 2021.12.28 5. 一种改进型胰岛素注射笔。专利号: ZL202022761628.7; 授权日期: 2021.12.3 6. 一种改良型血糖测试用取样装置。专利号: ZL202022756077.5; 授权日期: 2021.11.30
<p>获奖及个人荣誉</p>	<ol style="list-style-type: none"> 1. 山西省学术技术带头人 2. 山西省科技进步奖二等奖 3. 山西省高等学校优秀成果科技进步二等奖 4. 山西省高等学校优秀青年学术带头人 5. 山西省科教兴晋突出贡献专家
<p>研究生培养</p>	<p>培养的研究生多次获得国家奖学金</p>

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