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School of medicine ,Jiangsu university

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## 张徐

张徐 简历



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### 主讲课程：

本科：分子生物学检验；医学分子生物学；药学分子生物学  
 研究生（硕士/博士）：高级分子生物学  
 留学生（硕士/博士）：Advanced Molecular Biology

### 研究方向：

肿瘤分子生物学；肿瘤免疫学；分子诊断学

**学术兼职:**

江苏省检验学会青年委员, 江苏省生物化学和分子生物学学会青年委员, 担任*Gut*、*Stem Cells*、*J Hematol Oncol*、*Cell Mol Life Sci*、*Cell Proliferat*、*Sci Rep*、*Oncotarget*、*DNA Cell Biol*、*Biomed Pharmacother*、*Int J Mol Med*、*Oncol Rep*等20种国际SCI期刊和4种国内核心期刊审稿专家。

**教育经历:**

2012/05 - 2013/09, 美国Texas Tech Univ, 肿瘤分子生物学, 博士后  
2008/09 - 2011/12, 江苏大学, 临床检验诊断学, 博士  
2006/09 - 2008/07, 江苏大学, 临床检验诊断学, 硕士  
2001/09 - 2006/07, 江苏大学, 医学检验, 学士

**工作经历:**

2017/07 - 至今, 江苏大学医学院, 院长助理  
2017/01 - 至今, 江苏大学医学院, 博导  
2015/05 - 至今, 江苏省检验医学重点实验室, 分子检验研究室, 主任  
2017/08 - 至今, 江苏大学消化病研究所, 副所长  
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2012/05 - 2013/09, 美国得克萨斯理工大学药学院, 药理学系, 博士后  
2010/08 - 2012/04, 美国得克萨斯理工大学药学院, 药理学系, 访问学者  
2009/05 - 2010/07, 美国阿拉巴马大学医学院, 药理/毒理学系, 访问学者

**主持、参加或完成科研项目及人才计划项目情况:**

- 1) 国家自然科学基金面上项目, 胃癌细胞来源exosome调控中性粒细胞N2型极化作用及机制研究 (81672416) (2017.01-2020.12), 负责人, 63万元
- 2) 国家自然科学基金青年基金, 胃癌微环境MSC调节中性粒细胞极化作用及分子机制 (81201660) (2013.01-2015.12), 负责人, 23万元
- 3) 江苏省自然科学基金面上项目, 中性粒细胞调节MSC活化促胃癌生长作用和机制研究 (BK20141303)

- (2014.07-2017.06), 负责人, 10万元
- 4) 江苏省第五期“333工程”培养资金资助项目, Exosome调控中性粒细胞N2型极化在胃癌诊疗中的应用和机制 (2017.01-2018.12), 负责人, 4万元
  - 5) 江苏省教育厅“青蓝工程”项目, 胃癌微环境MSC调节中性粒细胞极化作用和机制研究 (2014.06-2017.06), 负责人, 2万元
  - 6) 镇江市重点研发计划(社会发展), SALL4作为胃癌早期诊断和治疗新靶点研究 (SH2015034) (2015.08-2017.07), 负责人, 2万元
  - 7) 江苏大学“青年骨干教师培养工程”项目, 中性粒细胞极化与胃癌研究 (2014.06-2018.06), 负责人, 6万元
  - 8) 江苏大学高级人才启动基金, 胃癌MSC调节中性粒细胞作用及机制研究 (13JDG086) (2013.01-2014.12), 负责人, 5万元
  - 9) 国家自然科学基金面上项目, MSC来源 exosomes在急性心肌梗死损伤修复中的作用及机制 (81270214) (2013.01-2016.12), 主要参与者 (3/8), 70万
  - 10) 江苏省高校自然科学研究重大项目, 急性肾损伤标志物 miR-146b的应用和机制研究 (15KJA320001) (2015.07-2018.06), 主要参与者 (3/8), 30万
  - 11) 江苏省自然科学基金面上项目, 脐带间质干细胞因子SALL4在胃癌诊断与治疗中的实验研究 (BK2012709) (2012.07-2015.06), 主要完成人 (2/7), 10万元
  - 12) 国家自然科学基金重大研究计划, 间质干细胞在非可控性炎症导致胃癌发生与恶性转化中的作用及机制 (91129718) (2012.01-2014.12), 主要完成人(4/10), 80万元
  - 13) 国家自然科学基金青年基金, 小鼠骨髓MSC调控单核/巨噬细胞修复肝损伤的机制研究 (81000181) (2011.01-2013.12), 主要完成人 (2/8), 20万元
  - 14) 国家自然科学基金面上项目, GC-MSC和癌组织来源的MicroRNAs在胃癌诊治中的作用 (81071421) (2011.01-2013.12), 主要完成人 (4/9), 36万元
  - 15) 江苏省临床医学科技专项, 癌相关间质干细胞源性miRNA分析技术在胃癌分子诊断中的应用 (BL2012055) (2012.07-2015.06), 主要完成人 (4/9), 30万元
  - 16) 江苏省科技成果转化专项, 脐带间充质干细胞技术体系在自身免疫性疾病治疗中的应用(BA2009124) (2010.01-2012.12), 主要完成人 (5/10), 80万元
  - 17) 江苏省科技支撑计划, 脐带间质干细胞外切体(exosome)的制备及应用研究 (BE2010703) (2010.04-2013.12), 主要完成人 (5/12), 20万元

主要发表SCI论文（#第一作者；\*通讯作者）：

- 1) **Zhang X\***, Xu W. Neutrophils diminish T-cell immunity to foster gastric cancer progression: The role of GM-CSF/PD-L1/PD-1 signaling pathway. *Gut*. 2017, 66(11):1878-1880. (IF:16.658)
- 2) **Zhang X\***, Yuan X, Shi H, Wu L, Qian H, Xu W. Exosomes in cancer: small particle, big player. *J Hematol Oncol*. 2015, 8:83. (IF:6.263; ESI高被引论文前1%)
- 3) **Zhang X\***, Zhang W, Yuan X, Fu M, Qian H, Xu W. Neutrophils in cancer development and progression: roles, mechanisms, and implications. *Int J Oncol*. 2016, 49(3): 857-867. (IF:3.025)
- 4) **Zhang X<sup>#,\*</sup>**, Yuan X<sup>#</sup>, Zhu W, Qian H, Xu W. SALL4: an emerging cancer biomarker and target. *Cancer Lett*. 2015, 357(1):55-62. (IF:6.375)
- 5) **Zhang X**, Wang W, Wang H, Wang M, Xu W, Zhang R. Identification of ribosomal protein S25 (RPS25)-MDM2-p53 regulatory feedback loops. *Oncogene*. 2013, 32(22):2782-91. (IF:8.459)
- 6) **Zhang X**, Zhang Z, Cheng J, Li M, Wang W, Xu W, Wang H, Zhang R. Transcription factor NFAT1 activates the *mdm2* oncogene independent of p53. *J Biol Chem*. 2012, 287(36):30468-76. (IF:4.573)
- 7) **Zhang X**, Xu W, Qian H, Zhu W, Zhang R. Mesenchymal stem cells modified to express lentivirus TNF- $\alpha$  Tumstatin (45-132) inhibit the growth of prostate cancer. *J Cell Mol Med*. 2011, 15 (2):433-44. (IF:4.938)
- 8) **Zhang X**, Zhang L, Xu W, Qian H, Ye S, Zhu W, Cao H, Yan Y, Li W, Wang M, Wang W, Zhang R. Experimental therapy for lung Cancer: umbilical cord-derived mesenchymal stem cell-mediated interleukin-24 delivery. *Curr Cancer Drug Targets*. 2013, 13(1):92-102. (IF:3.707)
- 9) Zhu Q, **Zhang X<sup>#,\*</sup>**, Zhang L, Li W, Wu H, Yuan X, Mao F, Wang M, Zhu W, Qian H, Xu W. The IL-6-STAT3 axis mediates a reciprocal crosstalk between cancer-derived mesenchymal stem cells and neutrophils to synergistically prompt gastric cancer progression. *Cell Death Dis*. 2014, 5: e1295. (IF:5.965)
- 10) Yuan X, **Zhang X<sup>#,\*</sup>**, Zhang W, Liang W, Zhang P, Shi H, Zhang B, Shao M, Yan Y, Qian H, Xu W\*. SALL4 promotes gastric cancer progression through activating CD44 expression. *Oncogenesis*, 2016, 5(11): e268. (IF:5.021)
- 11) Yang T, **Zhang X<sup>#</sup>**, Wang M, Zhang J, Huang F, Cai J, Zhang Q, Mao F, Zhu W, Qian H, Xu W. Activation of mesenchymal stem cells by macrophages prompts human gastric cancer growth through NF- $\kappa$ B pathway. *PLoS One*. 2014, 9(5): e97569. (IF:3.534)
- 12) Wu L, **Zhang X<sup>#</sup>**, Zhang B, Shi H, Yuan X, Sun Y, Pan Z, Qian H, Xu W. Exosomes derived from gastric cancer cells activate NF- $\kappa$ B pathway in macrophages to promote cancer progression.

*Tumor Biol*, 2016, 37(9):12169-12180. (IF:3.611)

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14) Ji R, **Zhang X\***, Qian H, Gu H, Sun Z, Mao F, Yan Y, Chen J, Liang Z, Xu W. MiR-374 mediates the transition of gastric cancer-associated mesenchymal stem cells in an experimental rat model. *Oncol Reports*, 2017, 38: 1473-1481. (IF:2.662)

15) Zhang Y, Liang W, Zhang P, Chen J, Qian H, **Zhang X\***, Xu W. Circular RNAs: emerging cancer biomarkers and targets. *J Exp Clin Cancer Res*. 2017, 36(1):152. (IF:5.189)

16) Pan L, Liang W, Fu M, Huang ZH, Zhang W, Li X, Qian H, Jiang P, Xu W, **Zhang X\***. Exosomes-mediated transfer of long noncoding RNA ZFAS1 promotes gastric cancer progression. *J Cancer Res Clin Oncol*. 2017, 143(6): 991-1004. (IF:3.503)

17) Zhang W, Chen J, Ji R, Zhang P, Yuan X, Mao F, Xu W, **Zhang X\***, Interaction with neutrophils promotes the migration and invasion of gastric cancer cells through the induction of epithelial-mesenchymal transition. *Oncol Reports*, 2017, 38: 2959-2966. (IF:2.662)

18) Fu M, Zou C, Pan L, Liang W, Qian H, Xu W, Jiang P, **Zhang X\***. Long noncoding RNAs in digestive system cancers: functional roles, molecular mechanisms, and clinical implications. *Oncol Reports*, 2016, 36(3):1207-1218. (IF:2.662)

19) Yang H, Fu H, Xu W, **Zhang X\***. Exosomal non-coding RNAs: a promising cancer biomarker. *Clin Chem Lab Med*. 2016, 54(12):1871-1879. (IF:3.432)

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21) Mao F, Wu Y, Tang X, Kang J, Zhang B, Yan Y, Qian H, **Zhang X\***, Xu W. Exosomes derived from human umbilical cord mesenchymal stem cells relieve inflammatory bowel disease in mice. *Biomed Res Int*, 2017, 2017:5356760. (IF:2.476)

22) Wang W, Nag S, **Zhang X**, Wang MH, Wang H, Zhou J, Zhang R. Ribosomal proteins and human diseases: pathogenesis, molecular mechanisms, and therapeutic implications. *Med Res Rev*. 2015, 35(2):225-85. (IF:9.135)

23) Zhang B, Wang M, Gong A, **Zhang X**, Wu X, Zhu Y, Shi H, Wu L, Zhu W, Qian H, Xu W. HucMSC-exosome mediated-Wnt4 signaling is required for cutaneous wound healing. *Stem Cells*. 2015, 33(7):2158-68. (IF:6.523)

24) Zhang B, Wu X, **Zhang X**, Sun Y, Yan Y, Shi H, Zhu Y, Wu L, Pan Z, Zhu W, Qian H, Xu W. Human Umbilical Cord Mesenchymal Stem Cell Exosomes Enhance Angiogenesis Through the

- Wnt4/ $\beta$ -Catenin Pathway. *Stem Cells Transl Med.* 2015, 4(5):513-22. (IF:3.596)
- 25) Li W, Zhou Y, Yang J, **Zhang X**, Zhang H, Zhang T, Zhao S, Zheng P, Huo J, Wu H. Gastric cancer-derived mesenchymal stem cells prompt gastric cancer progression through interleukin-8. *J Exp Clin Cancer Res.* 2015, 34:52. (IF:5.189)
- 26) Ji R, Zhang B, **Zhang X**, Xue J, Yuan X, Yan Y, Wang M, Zhu W, Qian H, Xu W. Exosomes derived from human mesenchymal stem cells confer drug resistance in gastric cancer. *Cell Cycle.* 2015, 14(15):2473-83. (IF:4.565)
- 27) Zhu W, Huang L, Li Y, **Zhang X**, Gu J, Yan Y, Xu X, Wang M, Qian H, Xu W. Exosomes derived from human bone marrow mesenchymal stem cells promote tumor growth in vivo. *Cancer Lett.* 2012, 315(1):28-37. (IF:5.992; ESI高被引论文前1%)
- 28) Li T, Yan Y, Wang B, Qian H, **Zhang X**, Shen L, Wang M, Zhou Y, Zhu W, Li W, Xu W. Exosomes derived from human umbilical cord mesenchymal stem cells alleviate liver fibrosis. *Stem Cells Dev.* 2012, 22(6):845-54. (IF:4.202; ESI高被引论文前1%)
- 29) Shi H, Xu X, Zhang B, Xu J, Pan Z, Gong A, **Zhang X**, Li R, Sun Y, Yan Y, Mao F, Qian H, Xu W. 3,3'-Diindolylmethane stimulates exosomal Wnt11 autocrine signalling in human umbilical cord mesenchymal stem cells to enhance wound healing. *Theranostics.* 2017, 7(6): 1674-1688. (IF:8.854)
- 30) Zhang B, Shi Y, Gong A, Pan Z, Shi H, Sun Y, Yang H, Fu H, Yan Y, **Zhang X**, Wang M, Zhu W, Qian H, Xu W. HucMSC exosome-delivered 14-3-3 $\zeta$  orchestrates self-control of the wnt response via modulation of YAP during cutaneous regeneration. *Stem Cells.* 2016, 34(10):2485-2500. (IF:7.133)
- 31) Mao J, Liang Z, Zhang B, Yang H, Li X, Fu H, **Zhang X**, Yan Y, Xu W, Qian H. UBR2 Enriched in P53<sup>-/-</sup>-mBMMSC-Exosome Promoted Gastric Cancer Progression via Wnt/ $\beta$ -catenin Pathway. *Stem Cells.* 2017, 35(11):2267-2279. (IF:5.599)
- 32) Zhang L, Xu Z, Xu X, Zhang B, Wu H, Wang M, **Zhang X**, Yang T, Cai J, Yan Y, Mao F, Zhu W, Shao Q, Qian H, Xu W. SALL4, a novel marker for human gastric carcinogenesis and metastasis. *Oncogene.* 2014, 33(48):5491-500. (IF:8.559)
- 33) Wang M, Zhao C, Shi H, Zhang B, Zhang L, **Zhang X**, Wang S, Wu X, Yang T, Huang F, Cai J, Zhu Q, Zhu W, Qian H, Xu W. Deregulated microRNAs in gastric cancer tissue-derived mesenchymal stem cells: novel biomarkers and a mechanism for gastric cancer. *Br J Cancer.* 2014, 110(5):1199-210. (IF:6.176)
- 34) Wang M, Gu H, Qian H, Zhu W, Zhao C, **Zhang X**, Tao Y, Zhang L, Xu W. miR-17-5p/20a are important markers for gastric cancer and murine double minute 2 participates in their functional regulation. *Eur J Cancer.* 2013, 49(8):2010-21. (IF:6.163)

- 35) Wang W, **Zhang X**, Qin J, Voruganti S, Nag SA, Wang M, Wang H, Zhang R. Natural product ginsenoside 25-OCH<sub>3</sub>-PPD inhibits breast cancer growth and metastasis through down-regulating MDM2. *PLoS One*. 2012, 7(7): e41586. (IF:3.534)
- 36) Nag S, **Zhang X**, Srivenugopal KS, Wang MH, Wang W, Zhang R. Targeting MDM2-p53 interaction for cancer therapy: are we there yet? *Curr Med Chem*. 2014, 21(5):553-74. (IF:3.715)
- 37) Qian Q, Qian H, **Zhang X**, Zhu W, Yan Y, Ye S, Peng X, Li W, Xu Z, Sun L, Xu W. 5-Azacytidine induces cardiac differentiation of human umbilical cord-derived mesenchymal stem cells by activating extracellular regulated kinase. *Stem Cells Dev*. 2012, 21(1):67-75. (IF:4.202)
- 38) Pan Z, Tian Y, Zhang B, **Zhang X**, Shi H, Liang Z, Wu P, Li R, You B, Yang L, Mao F, Qian H, Xu W. YAP signaling in gastric cancer-derived mesenchymal stem cells is critical for its promoting role in cancer progression. *Int J Oncol*. 2017, 51(4):1055-1066. (IF:3.025)
- 39) Xu X, **Zhang X**, Wang S, Qian H, Zhu W, Cao H, Wang M, Chen Y, Xu W. Isolation and comparison of mesenchymal stem-like cells from human gastric cancer and adjacent non-cancerous tissues. *J Cancer Res Clin Oncol*. 2011, 137(3):495-504. (IF:3.009)
- 40) Gu H, Ji R, **Zhang X**, Wang M, Zhu W, Qian H, Chen Y, Jiang P, Xu W. Exosomes derived from human mesenchymal stem cells promote gastric cancer cell growth and migration via the activation of the Akt pathway. *Mol Med Rep*. 2016, 14(4):3452-8. (IF:1.554)
- 41) Xue J, Zhu Y, Sun Z, Ji R, **Zhang X**, Xu W, Yuan X, Zhang B, Yan Y, Yin L, Xu H, Zhang L, Zhu W, Qian H. Tumorigenic hybrids between mesenchymal stem cells and gastric cancer cells enhanced cancer proliferation, migration and stemness. *BMC Cancer*. 2015, 15:793. (IF:3.362)
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- 43) Chen Y, Qian H, Zhu W, **Zhang X**, Yan Y, Ye S, Peng X, Li W, Xu W. Hepatocyte growth factor modification promotes the amelioration effects of human umbilical cord mesenchymal stem cells on rat acute kidney injury. *Stem Cells Dev*. 2011, 20(1):103-13. (IF:4.202)
- 44) Xu X, Qian H, Zhu W, **Zhang X**, Yan Y, Wang M, Xu W. Isolation of cancer stem cells from transformed human mesenchymal stem cell line F6. *J Mol Med (Berl)*. 2010, 88(11):1181-90. (IF:4.739)
- 45) Gu J, Qian H, Shen L, **Zhang X**, Zhu W, Huang L, Yan Y, Mao F, Zhao C, Shi Y, Xu W. Gastric Cancer Exosomes Trigger Differentiation of Umbilical Cord Derived Mesenchymal Stem Cells to Carcinoma-Associated Fibroblasts through TGF- $\beta$ /Smad Pathway. *PLoS One*. 2012, 7(12): e52465. (IF:3.534)



- 46) Gao S, Mao F, Zhang B, Zhang L, **Zhang X**, Wang M, Yan Y, Yang T, Zhang J, Zhu W, Qian H, Xu W. Mouse bone marrow derived mesenchymal stem cells induce macrophage M2 polarization through the NF- $\kappa$ B and STAT3 pathways. *Exp Biol Med (Maywood)*. 2014, 239(3):366-75. **(IF:2.226)**
- 47) Cao H, Qian H, Xu W, Zhu W, **Zhang X**, Chen Y, Wang M, Yan Y, Xie Y. Mesenchymal stem cells derived from human umbilical cord ameliorate ischemia/reperfusion-induced acute renal failure in rats. *Biotechnol Lett*. 2010, 32(5):725-32. **(IF:1.736)**
- 48) Yan Y, Xu W, Qian H, Zhu W, Mao F, **Zhang X**. Tumstatin45-132-TNFalpha suppresses tumour growth through anti-angiogenic effects and cytotoxicity. *Biotechnol Appl Biochem*. 2010, 56(3):119-27. **(IF:1.322)**
- 49) Peng X, Xu H, Zhou Y, Wang B, Yan Y, **Zhang X**, Wang M, Gao S, Zhu W, Xu W, Qian H. Human umbilical cord mesenchymal stem cells attenuate cisplatin-induced acute and chronic renal injury. *Exp Biol Med (Maywood)*. 2013, 238(8):960-70. **(IF:2.226)**
- 50) Zhang Q, Wang M, Huang F, Yang T, Cai J, **Zhang X**, Zhu W, Qian H, Xu W. H. pylori infection-induced MSC differentiation into CAFs promotes epithelial-mesenchymal transition in gastric epithelial cells. *Int J Mol Med*. 2013, 32(6):1465-73. **(IF:1.88)**
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- 52) Wang M, Cai J, Huang F, Zhu M, Zhang Q, Yang T, **Zhang X**, Qian H, Xu W. Pre-treatment of human umbilical cord-derived mesenchymal stem cells with interleukin-6 abolishes their growth-promoting effect on gastric cancer cells. *Int J Mol Med*. 2015, 35(2):367-75. **(IF:1.88)**
- 53) Cai J, Wang M, Zhu M, Zhang Q, **Zhang X**, Yan Y, Qian H, Xu W. N-methyl-N-nitro-N'-nitrosoguanidine induces the expression of CCR2 in human gastric epithelial cells promoting CCL2-mediated migration. *Mol Med Rep*. 2016, 13(2):1083-90. **(IF:1.554)**
- 54) Zhu Y, Zhang B, Gong A, Fu H, **Zhang X**, Shi H, Sun Y, Wu L, Pan Z, Mao F, Zhu W, Qian H, Xu W. Anti-cancer drug 3,3'-diindolylmethane activates Wnt4 signaling to enhance gastric cancer cell stemness and tumorigenesis. *Oncotarget*. 2016, 7(13):16311-24. **(IF:5.168)**
- 55) Zhu Y, Yu J, Yin L, Zhou Y, Sun Z, Jia H, Tao Y, Liu W, Zhang B, Zhang J, Wang M, **Zhang X**, Yan Y, Xue J, Gu H, Mao F, Xu W, Qian H. MicroRNA-146b, a Sensitive Indicator of Mesenchymal Stem Cell Repair of Acute Renal Injury. *Stem Cells Transl Med*. 2016, 5(10):1406-1415. **(IF:4.247)**
- 56) Zhang B, Shen L, Shi H, Pan Z, Wu L, Yan Y, **Zhang X**, Mao F, Qian H, Xu W. Exosomes from

human umbilical cord mesenchymal stem cells: identification, purification and biological characteristics. *Stem Cells Int.* 2016, 2016:1929536. (IF:3.687)

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主要发表中文论文 (#第一作者; \*通讯作者) :

1) 张徐\*, 徐梦, 刘叶, 顾笑笑, 钱晖, 许文荣. 干细胞因子Nanog在肿瘤中的研究进展[J]. 肿瘤防治研究, 2016, 43(04):295-299.

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