Curriculum Vitae

1. **Personal Information**

**Name**: Baotong Zhang

**Work address**: 1365 Clifton Rd NE, C4068, Atlanta, GA, 30322

**E-mail**: [BZHAN30@emory.edu](mailto:BZHAN30@emory.edu)

**Tel (Cell)**: 678-510-8145

**Current Title: Instructor** in the Departmentof Hematology and Medical Oncology, Emory University School of Medicine, Winship Cancer Institute, Atlanta, Georgia

**ORCID:** 0000-0002-6586-4016

**Google scholar:**

<https://scholar.google.com/citations?hl=en&user=3frGqDUAAAAJ&view_op=list_works>

**NCBI profile:**

<https://www.ncbi.nlm.nih.gov/myncbi/baotong.zhang.1/bibliography/public/>

1. **Education and Training Experiences**

**2020.10~present: Instructor**

Departmentof Hematology and Medical Oncology, Emory University School of Medicine, Winship Cancer Institute, Atlanta, Georgia

*Focusing on bone metastasis of prostate cancer*

**2014.9 ~ 2020.10:** **Postdoctoral Fellow**

Departmentof Hematology and Medical Oncology, Emory University School of Medicine, Winship Cancer Institute, Atlanta, Georgia

(Mentor: Drs. Jin-Tang Dong and Wei Zhou)

*Focusing on the role of KLF5 in prostate development and prostate cancer progression.*

**2009.9 ~ 2014.6: Ph.D.** major in *Genetics*,

College of Life Sciences, Nankai University, Tianjin, China; (Mentor: Dr. Jin-Tang Dong)

*Focusing on the function of KLF5 in cellular biology and its interaction with non-coding RNAs.*

**2005.9 ~ 2009.6: B.Sc.** major in *Biological Sciences*,

College of Life Sciences, Nankai University, Tianjin, China;

1. **Positions and Honors**

**Positions and Employment**

2013.4 – 2014.9 Research Assistant, Emory University, Atlanta, GA

2014.9 – 2020.10 Postdoctoral Fellow, Emory University, Atlanta, GA

2020.10 - present Instructor, Emory University, Atlanta, GA

**Teaching Experience**

2009 Teaching assistant, Genetics, Nankai University, Tianjin, China

**Supervisory Teaching**

2010 – 2013 **Gui Ma**, Undergraduate Student at Nankai University,

* Outstanding Thesis (The role of KLF5 in EMT by regulating N-cadherin)

2010 – 2013 **Ranran Zhao**, Graduate student at Nankai University,

* Research article in *Oncotarget*, 2016

2015 – 2017 **Yichao Zhao**, Undergraduate student at Emory University,

* Participate in a project entitled by “Essential role of Ac-KLF5 in prostate cancer bone metastasis” (*Nature Communications*, under review)

2015 – 2017 **Ran Tao**, Visiting student in Emory University, M.D. in Xiangya Hospital

* Research article in *Biochemical and Biophysical Research Communications,* 2018

2014– 2017 **Qiao Wu**, Ph.D. candidate in Nankai University,

* Research article in *International Journal of Cancer,* 2019

2015– 2018 **Jamie L. King**, Ph.D. candidate in Emory University,

* Abstract in *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*
* Research article in *Oncogenesis,* 2018

2016 – 2020 **Yixiang Li**, Ph. D. candidate in Emory University,

* Abstracts in *AACR annual meeting* 2019 and 2020
* Research article in *Theranostics*, 2020

**Professional Memberships**

2010 - 2014 Student Member, Chinese Society for Cell Biology

2012 - Present Associate Member, American Association for Cancer Research

**Journal Editor**

2020 Academic Editor. *Biomedical research international*

2020 Guest Editor. *Evidence-based Complementary and Alternative Medicine*

**Manuscript Reviewer**

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| 2015 - 2019 | Reviewer. *Journal of Genetics and Genomics* |
| 2016 - 2020 | Reviewer. *Journal of Molecular Cell Biology* |
| 2016 | Reviewer. *The FASEB Journal* |
| 2016 - 2017 | Reviewer. *Oncotarget* |
| 2017 | Reviewer. *Scientific Reports* |
| 2017 | Reviewer. *Journal of Urology & Research* |
| 2017 | Reviewer. *OncoTargets and Therapy* |
| 2017 | Reviewer. *Journal of Cancer* |
| 2017 - 2020 | Reviewer. *Experimental and Therapeutic Medicine* |
| 2018 | Reviewer. *International Journal of Cancer* |
| 2018 - 2019 | Reviewer. *Oncology Reports* |
| 2018 - 2020 | Reviewer. *Molecular Medicine Reports* |
| 2018 - 2021 | Reviewer. *Oncology Letters* |
| 2019 | Reviewer. *International Journal of Oncology* |
| 2020 | Reviewer. *Technology in Cancer Research & Treatment* |
| 2020 | Reviewer. *Journal of Cellular Physiology* |
| 2020 | Reviewer. *Biomedical research international* |
| 2020 | Reviewer. *Experimental and Molecular Pathology* |
| 2020 | Reviewer. *Genes* |
| 2021 | Reviewer. *Cancers* |
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**Honors**

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| 2008 | China National Scholarship (Top 0.2%), Ministry of Education of the People's Republic of China |
| 2009 - 2013 | Excellent Graduate Student Award, Nankai University |
| 2017 | Best poster award in Postdoctoral Research Symposium, Emory University |
| 2019 | Excellence in Reviewing, *SPANDIDOS PUBLICATIONS* |
| 2020 | *AACR* Scholar-in-Training Award |

1. **Publications**

Peer-reviewed publications

*\*The journal impact factor (IF) is based on the year of paper published and calculated by Journal Citation Reports.*

First (co-first) author and corresponding (co-corresponding) author publications

1. **Baotong Zhang**, Yixiang Li, Qiao Wu, Lin Xie, Benjamin Barwick, Changying Fu, Xin Li, Daqing Wu, Siyuan Xia, Jing Chen, Wei-Ping Qian, Lily Yang, Adeboye O. Osunkoya, Lawrence H. Boise, Paula M. Vertino, Yichao Zhao, Menglin Li, Hsiao-Rong Chen, Jeanne Kowalski & Jin-Tang Dong. Acetylation of KLF5 maintains EMT and tumorigenicity to cause chemoresistant bone metastasis in prostate cancer. ***Nature communications****.* *Acceptance for publication* (2021).
2. **Baotong Zhang**, Xinpei Ci, Ran Tao, Jianping Jenny Ni, Xiaoyan Xuan, Jamie L. King, Siyuan Xia, Yixiang Li, Henry F. Frierson, Dong-Kee Lee, Jianming Xu, Adeboye O. Osunkoya & Jin-Tang Dong. Klf5 acetylation regulates luminal differentiation of basal progenitors in prostate development and regeneration. ***Nature communications*** 11, doi:10.1038/s41467-020-14737-8 (2020). (This article is **featured** by *Nature Communications* in https://www.nature.com/collections/pkgztbmgly)

**IF:** 12.121 (2019), **JCR rank:** Q1 in Multidisciplinary Science

1. Yixiang Li, **Baotong Zhang#**, Lingwei Xiang, Siyuan Xia, Omer Kucuk, Xingming Deng, Lawrence H. Boise & Jin-Tang Dong#. TGF-beta causes Docetaxel resistance in Prostate Cancer via the induction of Bcl-2 by acetylated KLF5 and Protein Stabilization. ***Theranostics*** 10, 7656-7670, doi:10.7150/thno.44567 (2020). (# **co-corresponding author**)

**IF:** 8.579 (2019), **JCR rank:** Q1 in Medicine, Research & Experimental

1. Qiao Wu, Changying Fu, Menglin Li, Juan Li, Zhigui Li, Leilei Qi, Xinpei Ci, Gui Ma, Ang Gao, Xing Fu, Na An, Mingcheng Liu, Yixiang Li, Jamie L King, Liya Fu, **Baotong Zhang#** & Jin-Tang Dong#. CINP is a novel cofactor of KLF5 required for its role in the promotion of cell proliferation, survival and tumor growth. ***International journal of cancer*** 144, 582-594 (2019). doi: 10.1002/ijc.31908. Epub 2018 Oct 26. (# **co-corresponding author**)

**IF:** 7.36 (2017), **JCR rank:** Q1 in Oncology

1. Ran Tao\*, **Baotong Zhang\***, Yixiang Li, Jamie L. King, Ruoyu Tian, Siyuan Xia, Cara R. Schiavon & Jin-Tang Dong. HDAC-mediated deacetylation of KLF5 associates with its proteasomal degradation. ***Biochemical and Biophysical Research Communications*** 500, 777-782, doi:10.1016/j.bbrc.2018.04.153 (2018). (\* **co-first author**)

**IF:** 2.559 (2017), **JCR rank:** Q3 in Biochemistry & Molecular Biology

1. **Baotong Zhang\***, Ranran Zhao\*, Yuan He, Xing Fu, Liya Fu, Zhengmao Zhu, Li Fu & Jin-Tang Dong. MicroRNA 100 sensitizes luminal A breast cancer cells to paclitaxel treatment in part by targeting mTOR. ***Oncotarget*** 7, 5702-5714, doi:10.18632/oncotarget.6790 (2016). (\* **co-first author**)

**IF:** 5.008 (2015), **JCR rank:** Q1 in Oncology

1. **Baotong Zhang**, Zhiqian Zhang, Siyuan Xia, Changsheng Xing, Xinpei Ci, Xin Li, Ranran Zhao, Sha Tian, Gui Ma, Zhengmao Zhu, Liya Fu & Jin-Tang Dong. KLF5 activates microRNA 200 transcription to maintain epithelial characteristics and prevent induced epithelial-mesenchymal transition in epithelial cells. ***Molecular and Cellular Biology*** 33, 4919-4935, doi:10.1128/MCB.00787-13 (2013).

**IF:** 5.372 (2012), **JCR rank:** Q1 in Cell Biology and Biochemistry & Molecular Biology

Peer-reviewed co-author publications

1. Ge Dong, Gui Ma, Rui Wu, Jinming Liu, Mingcheng Liu, Ang Gao, Xiawei Li, Jun A, Xiaoyu Liu, Zhiqian Zhang, Baotong Zhang, Liya Fu & Jin-Tang Dong. ZFHX3 Promotes the Proliferation and Tumor Growth of ER-Positive Breast Cancer Cells Likely by Enhancing Stem-Like Features and MYC and TBX3 Transcription. *Cancers* 12, doi:10.3390/cancers12113415 (2020).

**IF:** 6.126 (2019), **JCR rank:** Q1 in Oncology

1. Rui Wu, Jiali Fang, Mingcheng Liu, Jun A, Jinming Liu, Wenxuan Chen, Juan Li, Gui Ma, Zhiqian Zhang, **Baotong Zhang**, Liya Fu & Jin-Tang Dong. SUMOylation of the transcription factor ZFHX3 at Lys-2806 requires SAE1, UBC9, and PIAS2 and enhances its stability and function in cell proliferation. ***Journal of Biological Chemistry*** 295, 6741-6753, doi:10.1074/jbc.RA119.012338 (2020).

**IF:** 4.106 (2019), **JCR rank:** Q2 in Biochemistry & Molecular Biology

1. Juan Li, **Baotong Zhang**, Mingcheng Liu, Xing Fu, Xinpei Ci, Jun A, Changying Fu, Ge Dong, Rui Wu, Zhiqian Zhang, Liya Fu & Jin-Tang Dong. KLF5 Is Crucial for Androgen-AR Signaling to Transactivate Genes and Promote Cell Proliferation in Prostate Cancer Cells. ***Cancers (Basel)*** 12, doi:10.3390/cancers12030748 (2020).

**IF:** 6.126 (2019), **JCR rank:** Q1 in Oncology

1. Changying Fu, Na An, Jinming Liu, Jun A, **Baotong Zhang**, Mingcheng Liu, Zhiqian Zhang, Liya Fu, Xinxin Tian, Dan Wang & Jin-Tang Dong. The transcription factor ZFHX3 is crucial for the angiogenic function of hypoxia-inducible factor 1alpha in liver cancer cells. ***Journal of Biological Chemistry*** 295, 7060-7074, doi:10.1074/jbc.RA119.012131 (2020).

**IF:** 4.106 (2019), **JCR rank:** Q2 in Biochemistry & Molecular Biology

1. Gui Ma, Ang Gao, Yinan Yang, Yuan He, Xi Zhang, **Baotong Zhang**, Zhiqian Zhang, Mei Li, Xing Fu, Dan Zhao, Rui Wu, Leilei Qi, Qingxia Hu, Juan Li, Liya Fu, Zhengmao Zhu & Jin-Tang Dong. Zfhx3 is essential for progesterone/progesterone receptor signaling to drive ductal side-branching and alveologenesis in mouse mammary glands. ***Journal of Genetics and Genomics*** (2019).

**IF:** 4.650 (2018), **JCR rank:** Q1 in Genetics & Heredity

1. Qingxia Hu, **Baotong Zhang**, Rui Chen, Changying Fu, A Jun, Xing Fu, Juan Li, Liya Fu, Zhiqian Zhang & Jin-Tang Dong. ZFHX3 is indispensable for ERβ to inhibit cell proliferation via MYC downregulation in prostate cancer cells. ***Oncogenesis*** 8, 28 (2019).

**IF:** 5.995 (2018), **JCR rank:** Q1 in Oncology

1. Xinxin Tian, Fangfang Tao, **Baotong Zhang**, Jin-Tang Dong & Zhiqian Zhang. The miR-203/SNAI2 axis regulates prostate tumor growth, migration, angiogenesis and stemness potentially by modulating GSK-3beta/beta-CATENIN signal pathway. ***IUBMB Life*** 70, 224-236, doi:10.1002/iub.1720 (2018).

**IF:** 3.236 (2017), **JCR rank:** Q2 in Biochemistry & Molecular Biology

1. Jamie L. King, **Baotong Zhang**, Yixiang Li, Kathy P. Li, Jianping J. Ni, Harold I. Saavedra & Jin-Tang Dong. TTK promotes mesenchymal signaling via multiple mechanisms in triple negative breast cancer. ***Oncogenesis*** 7, 69, doi:10.1038/s41389-018-0077-z (2018).

**IF:** 4.722 (2017), **JCR rank:** Q1 in Oncology

1. Siyuan Xia, Ruiting Lin, Lingtao Jin, Liang Zhao, Hee-Bum Kang, Yaozhu Pan, Shuangping Liu, Guoqing Qian, Zhiyu Qian, Evmorfia Konstantakou, **Baotong Zhang**, Jin-Tang Dong, Young R. Chung, Omar Abdel-Wahab, Taha Merghoub, Lu Zhou, Ragini R. Kudchadkar, David H. Lawson, Hanna J. Khoury, Fadlo R. Khuri, Lawrence H. Boise, Sagar Lonial, Benjamin H. Lee, Brain P. Pollack, Jack L. Arbiser, Jun Fan, Qun-Ying Lei & Jing Chen. Prevention of Dietary-Fat-Fueled Ketogenesis Attenuates BRAF V600E Tumor Growth. ***Cell Metabolism*** 25, 358-373, doi:10.1016/j.cmet.2016.12.010 (2017).

**IF:** 18.164 (2016), **JCR rank:** Q1 in Endocrinology & Metabolism

1. Leilei Qi, **Baotong Zhang**, Shiying Zhang, Xinpei Ci, Qiao Wu, Gui Ma, Ang Luo, Liya Fu, Jamie L. King, Rita Nahta & Jin-Tang Dong. ERRF sensitizes ERBB2-positive breast cancer cells to lapatinib treatment likely by attenuating MCL1 and ERBB2 expression. ***Oncotarget*** 8, 36054-36066, doi:10.18632/oncotarget.16425 (2017).

**IF:** 5.168 (2016), **JCR rank:** Q1 in Oncology

1. Xiaodong Sun, Changsheng Xing, Xiaoying Fu, Jie Li, **Baotong Zhang**, Henry F. Frierson, Jr. & Jin-Tang Dong. Additive Effect of Zfhx3/Atbf1 and Pten Deletion on Mouse Prostatic Tumorigenesis. ***Journal of Genetics and Genomics*** 42, 373-382, doi:10.1016/j.jgg.2015.06.004 (2015).

**IF:** 3.585 (2014), **JCR rank:** Q2 in Genetics & Heredity

1. Xin Li, **Baotong Zhang**, Qiao Wu, Xinpei Ci, Ranran Zhao, Zhiqian Zhang, Siyuan Xia, Dan Su, Jie Chen, Gui Ma, Liya Fu & Jin-Tang Dong. Interruption of KLF5 acetylation converts its function from tumor suppressor to tumor promoter in prostate cancer cells. ***International journal of cancer*** 136, 536-546, doi:10.1002/ijc.29028 (2015).

**IF:** 5.085 (2014), **JCR rank:** Q1 in Oncology

1. Xinpei Ci, Changsheng Xing, **Baotong Zhang**, Zhiqian Zhang, Jenny J. Ni, Wei Zhou & Jin-Tang Dong. KLF5 inhibits angiogenesis in PTEN-deficient prostate cancer by attenuating AKT activation and subsequent HIF1alpha accumulation. ***Molecular Cancer*** 14, 91, doi:10.1186/s12943-015-0365-6 (2015).

**IF:** 4.257 (2014), **JCR rank:** Q1 in Oncology

1. Zhiqian Zhang, Zhengmao Zhu, **Baotong Zhang**, Weidong Li, Xin Li, Xiao Wu, Lijuan Wang, Liya Fu, Li Fu & Jin-Tang Dong. Frequent mutation of rs13281615 and its association with PVT1 expression and cell proliferation in breast cancer. ***Journal of Genetics and Genomics*** 41, 187-195, doi:10.1016/j.jgg.2014.03.006 (2014).

**IF:** 2.924 (2013), **JCR rank:** Q2 in Genetics & Heredity

1. Mei Li, Dan Zhao, Gui Ma, **Baotong Zhang**, Xiaoying Fu, Zhengmao Zhu, Liya Fu, Xiaodong Sun & Jin-Tang Dong. Upregulation of ATBF1 by progesterone-PR signaling and its functional implication in mammary epithelial cells. ***Biochemical and Biophysical Research Communications*** 430, 358-363, doi:10.1016/j.bbrc.2012.11.009 (2013).

**IF:** 2.406 (2012), **JCR rank:** Q3 in Biochemistry & Molecular Biology

1. Zhiqian Zhang, **Baotong Zhang**, Weidong Li, Liya Fu, Li Fu, Zhengmao Zhu & Jin-Tang Dong. Epigenetic Silencing of miR-203 Upregulates SNAI2 and Contributes to the Invasiveness of Malignant Breast Cancer Cells. ***Genes & cancer*** 2, 782-791, doi:10.1177/1947601911429743 (2011).

This paper is NOT an SCI paper and cited by at least **177** times since publication as calculated by google scholar.

Book chapter

* Zhiqian Zhang, Zhengmao Zhu, Baotong Zhang, and Jin-Tang Dong. Epigenetic Regulation of miRNAs in Breast Cancer Formation and Progression. *Epigenetics and Cancer*, pp. 95-114: Springer Netherlands, 2013.

Conference abstracts

* **Baotong Zhang**, Yixiang Li, Qiao Wu, Lin Xie, Benjamin Barwick, Jin-Tang Dong. KLF5 acetylation promotes bone metastatic growth of prostate cancer by activating CXCR4/IL-11 and subsequent osteoclast differentiation. In *AACR 110th Annual Meeting* 2020, pp. 3840.
* Yixiang Li, **Baotong Zhang**, Jin-Tang Dong. TGF-β-acetylated KLF5-Bcl-2 signaling mediates docetaxel resistance in prostate cancer cells. In *AACR 110th Annual Meeting* 2020, pp. 5287.
* **Baotong Zhang**, Jin-Tang Dong. Acetylation of KLF5 controls the cell fate of basal progenitors during postnatal development and regeneration of mouse prostates. In *AACR 109th Annual Meeting* 2019, pp. 4405.
* Yixiang Li, **Baotong Zhang**, Jin-Tang Dong. Acetylated Kruppel-like factor 5 and transforming growth factor-β mediated drug resistance in prostate cancer. In *AACR 109th Annual Meeting* 2019, pp. LB-120.
* Jamie L. King, **Baotong Zhang**, Jin-Tang Dong. TTK and KLF5 mediate EMT in the context of TGF-beta signaling in triple-negative breast cancer. In: *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION* 2018, pp. 142
* **Baotong Zhang**, Ranran Zhao, Yuan He, Xing Fu, Jin-Tang Dong. Restoration of miR-100 sensitizes luminal A breast cancer to paclitaxel treatment by targeting mTOR. In: *AACR 106th Annual Meeting* 2015, pp. 725.
* Xinpei Ci, Changsheng Xing, **Baotong Zhang**, Zhiqian Zhang, Jenny Jianping Ni, Wei Zhou, Jin-Tang Dong. KLF5 inhibits angiogenesis in PTEN-deficient prostate cancer by attenuating AKT activation and subsequent HIF1α accumulation. In: *AACR 106th Annual Meeting* 2015, pp. 1386.
* **Baotong Zhang**,Jin-Tang Dong. Downregulation of KLF5 contributes to TGF-β-and EGF-induced EMT by reducing miR-200s. In: *AACR 104th Annual Meeting* 2013, pp. 1491.

1. **Research Support**

* W81XWH-18-1-0526, Department of Defense, 09/01/18-8/31/21

Dong, Jin-Tang (PI)

Title: *A Novel Regulator of Cancer Stem Cell Plasticity and Its Roles in Prostate Cancer Resistance and Metastasis*

Role: Postdoctoral fellow

* R01CA171189, National Cancer Institute, 04/01/13-04/01/18

Dong, Jin-Tang (PI)

Title: *Bidirectional role of KLF5 in prostatic epithelial homeostasis and tumorigenesis*

Role: Postdoctoral fellow