Jianying Li

Date of Birth: June 1985
Gender：Female
Address: 460w 12th Avenue, Columbus, Ohio 43210
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EDUCATION

September 2010－June 2013 Master Graduate
Investigate the effect of NDRG2 on cancer metabolism. Supervisor: Prof. Libo Yao
Department of Biochemistry and Molecular Biology, Fourth Military Medical University, China

September 2005－June 2009 Undergraduate
Bachelor of Bioscience, College of Veterinary Medicine, Northwest A&F University, China

RESEARCH EXPERIENCE

2020/11 -now **Research associate 1 in Ohio State University College of Medicine**
I study how GPR84 is upregulated in tumor infiltrated macrophages
Supervisor: Professor Gang Xin

2017/12-2020/11 **Research associate 1 in Ohio State University College of Medicine**
I investigate the role of Mg53 protection in the intestine
Supervisor: Professor Jianjie Ma

RESEARCH SKILLS

- Bioinformatics: the single RNA-sequencing related data analysis.
- The intestine cells 3D culture.
- Molecular Biology and Biochemistry techniques (DNA and RNA isolation, PCR, qRT-PCR, Dual luciferase reporter assay, RNA interference techniques, Western blot, Enzyme activity, etc.)
- Basic Cell Biology techniques and imaging (Tissue culture of primary mammalian cells, cancer cell lines, Transient transfection, Stable transfection, Fluorescence and brightfield microscopy, Flow cytometry etc.).
- Histology techniques: Immunostaining of ordinary tissue sections, Immunohistochemistry.
- Virology techniques: Constructing the vectors of lentivirus and delivering them into mammalian cells to overexpress or knockdown genes.
- Animal techniques: mouse handling and breeding, I/P injection, Xenograft model, surgery.
- Familiar with the usage of basic bioinformatics tools.

PUBLICATIONS (# **contribute equally**)

1. **Jianying Li#,** Chelsea Bolyard, Gang Xin and Zihai Li. Targeting metabolic pathways of myeloid cells improves cancer immunotherapy. **Frontiers in immunology (Accepted).** 2021 **(IF 6.4)**
2. Oscar Rosas Mejia, Erin S. Gloag, **Jianying Li**, Marisa Ruane-Foster, Tiffany A. Claeys, Daniela Farkas, Laszlo Farkas, Gang Xin, Richard T. Robinson. Mice infected with Mycobacterium tuberculosis are resistant to secondary infection with SARS-CoV-2. **bioRxiv** 2021.11.09.467862

3. Xiang Cheng[#], **Jianying Li[#],** Deliang Guo. SCAP/SREBPs are central players in lipid metabolism and novel metabolic targets in cancer therapy. **Current topics in medicinal chemistry.** 2018 **(IF 3.3)**
4. Xinyuan Xu[#], **Jianying Li[#]**, Xiang Sun[#], Yan Guo[#], Dake Chu, Wei Li, Xia Li, Guodong Yang, Xinping Liu, Libo Yao, Jian Zhang, Lan Shen. Tumor suppressor NDRG2 inhibits glycolysis and glutaminolysis in colorectal cancer cells by repressing c-Myc expression. **Oncotarget**. 2015 (**IF 3.3**)
5. Ruixiao Li[#], Chuigong Yu[#], Feng Jiang[#], Lei Gao[#], **Jianying Li**, Yingmei Wang, Noor Beckwith, Libo Yao, Jing Zhang, Guojun Wu. Overexpression of N-Myc Downstream-Regulated Gene 2 (NDRG2) Regulates the Proliferation and Invasion of Bladder Cancer Cells In Vitro and In Vivo. **PLoS One**. 2013 (**IF 3.2**)
6. Zhongchan Sun[#], Guang Tong[#], Nan Ma[#], **Jianying Li**, Xiujuan Li, Shuang Li, Jingyu Zhou, Lize Xiong, Feng Cao, Libo Yao, Haichang Wang, Lan Shen. NDRG2: a newly identified mediator of insulin cardioprotection against myocardial ischemia-reperfusion injury. **Basic Res Cardiol.** 2013 (**IF 15.4**)
7. **Jianying Li[#]**, Lin Wu, Xinyuan Xu, Jian Zhang, Lan Shen. Role of tumor suppressor gene NDRG2 in Proliferation of human colon carcinoma cell line Caco-2. **Progress in Modern Biomedicine**. 2013 (**In Chinese**)
8. Lan Shen, Xiang Sun, Zhenhong Fu, Guodong Yang, **Jianying Li**, Libo Yao. The fundamental role of the p53 pathway in tumor metabolism and its implication in tumor therapy. **Clinical Cancer Res.** 2012 (**IF 12.5**)