

## JIALIANG WANG, PH.D.

### CONTACT

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### ACADEMIC APPOINTMENT

Assistant Professor, Director, Neurosurgical Oncology Laboratory, Department of Neurological Surgery, Vanderbilt University Medical Center 08/2010-current

### EDUCATION

- Ph.D. in Biochemistry. Mentor: Dr. Wendell Yarbrough 2005  
The University of North Carolina at Chapel Hill
- M.S. in Biochemistry. Mentor: Dr. Wanru Sun 2000  
Institute of Microbiology, Chinese Academy of Sciences, Beijing, China
- B.S. in Biology, Zhejiang University, Hangzhou, China 1996

### PROFESSIONAL TRAINING

- Duke Translational Research Institute, Duke University 2009-2010  
*Research Associate. Mentor: Dr. Bruce Sullenger*
- Brain Tumor Center, Duke University 2007-2008  
*Research Associate. Mentor: Dr. Jeremy Rich*
- Department of Cancer Biology, Vanderbilt University 2005-2007  
*PhD Student/Postdoctoral Fellow. Mentor: Dr. Wendell Yarbrough*

### PUBLICATIONS AND PRESENTATIONS

#### Peer reviewed articles:

1. Igor Shats, Michael L. Gatz, Jeffrey T. Chang, Seiichi Mori, **Jialiang Wang**, Jeremy Rich, and Joseph R. Nevins, *Using a Stem Cell-Based Signature to Guide Therapeutic Selection in Cancer*, **Cancer Research**, 2011, 71(5):1772-80.
2. **Jialiang Wang\***, Timothy P. Wakeman, Justin D. Lathia, Anita B. Hjelmeland, Xiao-Fan Wang, Rebekah R. White, Jeremy N. Rich\*, Bruce A. Sullenger\*, *Notch Promotes Radioresistance of Glioma Stem Cells*, **Stem Cells**, 2010, 28(1):17-28. \*:co-corresponding authors
3. Justin D. Lathia, Joseph Gallagher, **Jialiang Wang**, Christine E. Eyler, John M. Heddleston, Qiulian Wu, Roger E. McLendon, Anita B. Hjelmeland, , Jeremy N. Rich, *Integrin alpha 6 regulates glioblastoma stem cells*, **Cell Stem Cell**, 2010, 6 (5):421-432.
4. Hui Wang, Justin D. Lathia, Qiulian Wu, **Jialiang Wang**, Zhizhong Li, et al., *Targeting Interleukin 6 Signaling Suppresses Glioma Stem Cell Survival and Tumor Growth*, **Stem Cells**, 2009, 27(10): 2393–2404.

5. **Jialiang Wang**, Hui Wang, Zhizhong Li, Qiulian Wu, Justin D. Lathia, Roger E. McLendon, Anita B. Hjelmeland, Jeremy N. Rich, *c-Myc Is Required for Maintenance of Glioma Cancer Stem Cells*, **PLoS One**, 2008, 3(11): e3769.doi:10.1371/journal.pone.0003769.
6. **Jialiang Wang**, Hanbing An, Marty W. Mayo, Albert S. Baldwin, Wendell G. Yarbrough, *LZAP, A Putative Tumor Suppressor Selectively Inhibits NF- $\kappa$ B*, **Cancer Cell**, 2007, 12 (3): 239-251.
7. **Jialiang Wang**, Xiaping He, Bing Luo and Wendell G. Yarbrough, *LZAP Alters ARF Regulation of HDM2*, **Biochemical Journal**, 2006, 393 (Pt 2):489-501.
8. **Jialiang Wang**, Jianjun Wang, Liu Yang, Jin Wu, Wanru Sun. *Isolation and fermentation conditions of strains producing 1-phenyl-2-amino-ethanol alcohol dehydrogenase*, **Acta Microbiol Sinica**, 2001, 41(5):636.
9. **Jialiang Wang**, Jianjun Wang, Liu Yang, Guogang Zhao, Jin Wu, Wanru Sun. *Studies on asymmetric synthesis of R-phenylethanolamine by whole cells of Arachnia sp.*, **Chinese J. Biotech.**, 2001,17(4):467.

#### Book Chapter:

1. **Jialiang Wang**, Jeremy Rich, Bruce Sullenger, “Notch Signaling and Cancer Stem Cells” in *Notch Signaling in Embryology and Cancer*, Landes Bioscience, ISBN: 978-1-4614-0898-7, August 15, 2011.

#### Conference presentations:

1. **Jialiang Wang**, Hui Wang, Zhizhong Li, Qiulian Wu, Roger E. McLendon, Anita B. Hjelmeland, Jeremy N. Rich, *c-Myc Is Required for Maintenance of Glioma Tumor Initiating Cell*, 73<sup>rd</sup> Symposium: Control & Regulation of Stem Cells, Cold Spring Harbor Laboratory, May 2008.
2. **Jialiang Wang**, Wendell G. Yarbrough, *Regulation of NF- $\kappa$ B by a novel protein, LZAP*, Keystone Symposium, NF- $\kappa$ B: 20 Years on the Road from Biochemistry to Pathology, March 2006.

#### **AWARDS AND HONORS**

- 2010: “Future Leaders in Translational Research” special symposium, American Association for Cancer Research.
- 2008-2010: Basic Research Fellowship, American Brain Tumor Association.
- 1995: Outstanding Student Fellowship, Zhejiang University, Hangzhou, China.
- 1994: “Yao, Yi-Ming” Scholarship, Zhejiang University, Hangzhou, China.
- 1993: Outstanding Student Fellowship, Zhejiang University, Hangzhou, China.

#### **SCHOLARLY SOCIETIES**

- Sigma Xi, the Scientific Research Society 2009-present
- American Association of Cancer Research 2006-present

#### **MANUSCRIPT REVIEWS**

- Cancer
- Carcinogenesis

- European Journal of Cancer
- International Journal of Cancer
- International Journal of Radiation Biology
- Journal of Biological Chemistry
- Lab Investigation
- Molecular Carcinogenesis

## **RESEARCH SUPPORT**

### Active:

Translational Grant

PI: Jialiang Wang

Agency: American Brain Tumor Association

Funding period: 7/1/2011-6/30/2012

Title: Targeting the Notch Signaling Pathway in Molecularly Defined Tumor Subtypes of Glioblastoma

The goal is to determine tumor sensitivity toward Notch inhibition in combination with radiation in different molecular subtypes of glioblastoma.