

JIALIANG WANG, PH.D.

CONTACT

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ACADEMIC APPOINTMENT

Assistant Professor

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
Postdoctoral Fellow. Mentor: Dr. Wendell Yarbrough

PUBLICATIONS

Selected peer reviewed articles:

1. Wang, H., Han, M., Whetsell, W., Jr., Wang, J., Rich, J., Hallahan, D., and Han, Z. (2013). Tax-interacting protein 1 coordinates the spatiotemporal activation of Rho GTPases and regulates the infiltrative growth of human glioblastoma. *Oncogene*, Epub ahead of Print.
2. Cheng, Z., Gong, Y., Ma, Y., Lu, K., Lu, X., Pierce, L.A., Thompson, R.C., Muller, S., Knapp, S., and Wang, J. (2013). Inhibition of BET Bromodomain Targets Genetically Diverse Glioblastoma. *Clin Cancer Res* 19, 1748-1759. *: Highlighted article
3. Lathia, J.D., Gallagher, J., Heddleston, J.M., Wang, J., Eyler, C.E., Macswords, J., Wu, Q., Vasanji, A., McLendon, R.E., Hjelmeland, A.B., *et al.* (2010). Integrin alpha 6 regulates glioblastoma stem cells. *Cell Stem Cell* 6, 421-432.
4. Shats, I., Gatza, M.L., Chang, J.T., Mori, S., Wang, J., Rich, J.N., and Nevins, J. (2010). Using a Stem Cell-Based Signature to Guide Therapeutic Selection in Cancer. *Cancer Res.*

5. Wang, J.*, Wakeman, T.P., Lathia, J.D., Hjelmeland, A.B., Wang, X.F., White, R.R., Rich, J.N.*, and Sullenger, B.A.* (2010). Notch promotes radioresistance of glioma stem cells. *Stem Cells* 28, 17-28. *:co-corresponding authors
6. Wang, H., Lathia, J.D., Wu, Q., Wang, J., Li, Z., Heddleston, J.M., Eyler, C.E., Elderbroom, J., Gallagher, J., Schuschu, J., *et al.* (2009). Targeting Interleukin 6 Signaling Suppresses Glioma Stem Cell Survival and Tumor Growth. *Stem Cells*.
7. Wang, J., An, H., Mayo, M.W., Baldwin, A.S., and Yarbrough, W.G. (2007). LZAP, a putative tumor suppressor, selectively inhibits NF-kappaB. *Cancer Cell* 12, 239-251.
8. Wang, J., He, X., Luo, Y., and Yarbrough, W.G. (2006). A novel ARF-binding protein (LZAP) alters ARF regulation of HDM2. *Biochem J* 393, 489-501.
9. Wang, J., Wang, H., Li, Z., Wu, Q., Lathia, J.D., McLendon, R.E., Hjelmeland, A.B., and Rich, J.N. (2008). c-Myc is required for maintenance of glioma cancer stem cells. *PLoS ONE* 3, e3769.

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.

AWARDS AND HONORS

- 2010: Future Leaders in Translational Research, American Association for Cancer Research.
- 2008: 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

- American Association of Cancer Research, since 2006
- Radiation Research Society, since 2010
- Society of Neuro-Oncology, since 2011

MANUSCRIPT REVIEWS

- Brain Research
- Cancer
- Carcinogenesis
- Clinical Cancer Research
- European Journal of Cancer
- International Journal of Cancer
- International Journal of Radiation Biology
- Journal of Biological Chemistry
- Lab Investigation
- Molecular Carcinogenesis
- PLoS One
- Proceedings of the National Academy of Sciences

RESEARCH SUPPORT

Pending

1. Targeting Radiation Resistance in Glioblastoma Stem Cells (R01), 2013-2018
PI: Jialiang Wang
Agency: National Cancer Institute

Completed

1. Targeting the Notch Signaling Pathway in Molecularly Defined Tumor Subtypes of Glioblastoma (Translational Grant), 07/2011-06/2012
PI: Jialiang Wang
Agency: American Brain Tumor Association
2. Novel Combination Treatment for Glioblastoma Stem Cells (Research Grant), 01/2012-12/2012
PI: Jialiang Wang
Agency: Southeastern Brain Tumor Foundation

Hao Luo Caiyu Chen Li Guo Zaicheng Xu Xiaoyu Peng Xinquan Wang Jialiang Wang Na Wang Chuanwei Li Xiaoli Luo Hongyong Wang Pedro A Jose Chunjiang Fu Yu Huang Weibin Shi Chunyu Zeng. Authors: Xinquan Wang Hao Luo Caiyu Chen Ken Chen Jialiang Wang Yue Cai Shuo Zheng Xiaoli Yang Lin Zhou Pedro A Jose Chunyu Zeng.