Stanford



Mengxiong Wang

Instructor, Radiation Oncology - Radiation and Cancer Biology

Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Instructor, Radiation Oncology - Radiation and Cancer Biology

PROFESSIONAL EDUCATION

- Ph.D., University of Florida , Cancer Biology and Pharmacology (2019)
- M.P.H., University of Florida , Epidemiology (2015)
- M.D., Huanzhong University of Science and Technology , Medicine (2012)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

1. To investigate the role of p53 in regulating the regression of lung adenocarcinoma and tumor microenvironment.

2. To determine synthetic lethal partner for p53 mutations in the context of lung adenocarcinoma.

Publications

PUBLICATIONS

- **Analysis of knockout mice reveals critical female-specific roles for the Hippo pathway component PTPN14.** *Genes & development*
  McCrea, E. M., Makrides, N., Tabata, T., Reineking, W., Vilches-Moure, J. G., Wang, M., Lake, J. S., Vogel, H., Howitt, B., Zhang, X., Attardi, L. D.
  2025

- **Integrative multiomic approaches reveal ZMAT3 and p21 as conserved hubs in the p53 tumor suppression network.** *Cell death and differentiation*
  Boutelle, A. M., Mabene, A. R., Yao, D., Xu, H., Wang, M., Tang, Y. J., Lopez, S. S., Sinha, S., Demeter, J., Cheng, R., Benard, B. A., McCrea, E. M., Valente, et al
  2025

- **Activating p53Y220C with a Mutant-Specific Small Molecule.** *bioRxiv : the preprint server for biology*
  Zhu, X., Byun, W. S., Pieńkowska, D. E., Nguyen, K. T., Gerhartz, J., Geng, Q., Qiu, T., Zhong, J., Jiang, Z., Wang, M., Sarott, R. C., Hinshaw, S. M., Zhang, et al
  2024

- **DR5 disulfide bonding functions as a sensor and effector of protein folding stress.** *Molecular cancer research : MCR*
  Law, M. E., Dulloo, Z. M., Eggleston, S. R., Takacs, G. P., Alexandrow, G. M., Lee, Y. I., Wang, M., Hardy, B., Su, H., Forsyth, B., Das, P., Datta, P. K., Chiang, et al
  2024

- **p53 governs an AT1 differentiation programme in lung cancer suppression.** *Nature*

Kaiser, A. M., Gatto, A., Hanson, K. J., Zhao, R. L., Raj, N., Ozawa, M. G., Seoane, J. A., Bieging-Rolett, K. T., Wang, M., Li, I., Trope, W. L., Liou, D. Z., Shrager, et al

2023

- **The Mettl3 epitranscriptomic writer amplifies p53 stress responses.** *Molecular cell*

  Raj, N., Wang, M., Seoane, J. A., Zhao, R. L., Kaiser, A. M., Moonie, N. A., Demeter, J., Boutelle, A. M., Kerr, C. H., Mulligan, A. S., Moffatt, C., Zeng, S. X., Lu, et al

  2022

- **A Balancing Act: p53 Activity from Tumor Suppression to Pathology and Therapeutic Implications.** *Annual review of pathology*

  Wang, M., Attardi, L. D.

  2021

- **Zmat3 Is a Key Splicing Regulator in the p53 Tumor Suppression Program.** *Molecular cell*

  Bieging-Rolett, K. T., Kaiser, A. M., Morgens, D. W., Boutelle, A. M., Seoane, J. A., Van Nostrand, E. L., Zhu, C., Houlihan, S. L., Mello, S. S., Yee, B. A., McClendon, J., Pierce, S. E., Winters, et al

  2020; 80 (3): 452

- **A novel proteotoxic combination therapy for EGFR+ and HER2+cancers** *ONCOGENE*

  Wang, M., Ferreira, R. B., Law, M. E., Davis, B. J., Yaaghubi, E., Ghilardi, A. F., Sharma, A., Avery, B. A., Rodriguez, E., Chiang, C., Narayan, S., Heldermon, C. D., Castellano, et al

  2019; 38 (22): 4264–82

- **The unfolded protein response as a target for anticancer therapeutics** *CRITICAL REVIEWS IN ONCOLOGY HEMATOLOGY*

  Wang, M., Law, M. E., Castellano, R. K., Law, B. K.

  2018; 127: 66–79

- **Disulfide bond disrupting agents activate the unfolded protein response in EGFR- and HER2-positive breast tumor cells** *ONCOTARGET*

  Ferreira, R. B., Wang, M., Law, M. E., Davis, B. J., Bartley, A. N., Higgins, P. J., Kilberg, M. S., Santostefano, K. E., Terada, N., Heldermon, C. D., Castellano, R. K., Law, B. K.

  2017; 8 (17): 28971–89