Stanford

Li Guan

Instructor, Radiation Oncology - Radiation Therapy

Bio

ACADEMIC APPOINTMENTS

- Instructor, Radiation Oncology - Radiation Therapy

Publications

PUBLICATIONS

- **High throughput mutational characterization of the GPCR ligand C5a using yeast display and deep sequencing.** *Structure (London, England : 1993)*
  Xu, Y., Thakkar, K., Guan, L., Miao, Y., Mehibel, M., Lee, R. B., Marciano, D., Viswanathan, V., Wang, Z., Wang, J., Ji, L., Cao, H., Petrakian, et al
  2025

- **FTO inhibition enhances the therapeutic index of radiation therapy in head and neck cancer.** *JCI insight*
  Ji, L., Pu, L., Wang, J., Cao, H., Melemenidis, S., Sinha, S., Guan, L., Laseinde, E. E., von Eyben, R., Richter, S. A., Nam, J. M., Kong, C., Casey, et al
  2025; 10 (11)

- **Salivary gland stem/progenitor cells: advancing from basic science to clinical applications.** *Cell regeneration (London, England)*
  Langthasa, J., Guan, L., Jinagal, S. L., Le, Q. T.
  2025; 14 (1): 4

- **Association between Locoregional Failure and NFE2L2/KEAP1/CUL3 Mutations in NRG/RTOG 9512: A Randomized Trial of Radiation Fractionation in T2N0 Glottic Cancer.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Guan, L., Torres-Saavedra, P. A., Zhao, X., Major, M. B., Holmes, B. J., Nguyen, N. K., Kumaravelu, P., Hodge, T., Diehn, M., Zevallos, J. P., Holsinger, F. C., Emami, B., Jordan, et al
  2024

- **Gold-siRNA supraclusters enhance the anti-tumor immune response of stereotactic ablative radiotherapy at primary and metastatic tumors.** *Nature biotechnology*
  Jiang, Y., Cao, H., Deng, H., Guan, L., Langthasa, J., Colburg, D. R., Melemenidis, S., Cotton, R. M., Aleman, J., Wang, X. J., Graves, E. E., Kalbasi, A., Pu, et al
  2024

- **Tert-expressing cells contribute to salivary gland homeostasis and tissue regeneration after radiation therapy.** *Genes & development*
  Guan, L., Viswanathan, V., Jiang, Y., Vijayakumar, S., Cao, H., Zhao, J., Colburg, D. R., Neuhöfer, P., Zhang, Y., Wang, J., Xu, Y., Laseinde, E. E., Hildebrand, et al
  2024

- **Targeted proteomic quantitation of NRF2 signaling and predictive biomarkers in HNSCC.** *Molecular & cellular proteomics : MCP*
  Wamsley, N. T., Wilkerson, E. M., Guan, L., LaPak, K. M., Schrank, T. P., Holmes, B. J., Sprung, R. W., Gilmore, P. E., Gerndt, S. P., Jackson, R. S., Paniello, R. C., Pipkorn, P., Puram, et al
  2023: 100647

- **Galectin-1 mediates chronic STING activation in tumors to promote metastasis through MDSC recruitment.** *Cancer research*
  Nambiar, D. K., Viswanathan, V., Cao, H., Zhang, W., Guan, L., Chamoli, M., Holmes, B., Kong, C., Hildebrand, R., Koong, A. J., von Eyben, R., Plevritis, S., Li, et al
  2023

- **Association between locoregional failure and NFE2L2/KEAP1/CUL3 pathway mutations in NRG/RTOG 9512: A randomized trial of hyperfractionation vs. conventional fractionation in T2N0 glottic squamous cell carcinoma (SCC).**
  Guan, L., Torres-Saavedra, P. A., Zhao, X., Major, M. B., Holmes, B. J., Nguyen, N., Kumaravelu, P., Hodge, T., Diehn, M., Zevallos, J., Emami, B., Sagar, S. M., Morrison, et al
  LIPPINCOTT WILLIAMS & WILKINS.2023

- **NFE2L2 mutations enhance radioresistance in head and neck cancer by modulating intratumoral myeloid cells.** *Cancer research*
  Guan, L., Nambiar, D. K., Cao, H., Viswanathan, V., Kwok, S., Hui, A. B., Hou, Y., Hildebrand, R., von Eyben, R., Holmes, B. J., Zhao, J., Kong, C. S., Wamsley, et al
  2023

- **The BRCA1 BRCT promotes antisense RNA production and double-stranded RNA formation to suppress ribosomal R-loops.** *Proceedings of the National Academy of Sciences of the United States of America*
  Chang, C. W., Singh, A. K., Li, M., Guan, L., Le, N., Omabe, K., Liang, F., Liu, Y.
  2022; 119 (50): e2217542119

- **Aldehyde dehydrogenase 3A1 deficiency leads to mitochondrial dysfunction and impacts salivary gland stem cell phenotype.** *PNAS nexus*
  Viswanathan, V., Cao, H., Saiki, J., Jiang, D., Mattingly, A., Nambiar, D., Bloomstein, J., Li, Y., Jiang, S., Chamoli, M., Sirjani, D., Kaplan, M., Holsinger, et al
  2022; 1 (2): pgac056

- **Relationship between KEAP1/NFE2L2 pathway activation and radiation resistance in oral cavity cancer.**
  Guan, L., Cao, H., Hui, A., Kwok, S., Viswanathan, V., Nambiar, D., Eyben, R. V., Holmes, B., Kong, C., Diehn, M., Quynh-Thu Le
  AMER ASSOC CANCER RESEARCH.2021

- **Geminin facilitates FoxO3 deacetylation to promote breast cancer cell metastasis** *JOURNAL OF CLINICAL INVESTIGATION*
  Zhang, L., Cai, M., Gong, Z., Zhang, B., Li, Y., Guan, L., Hou, X., Li, Q., Liu, G., Xue, Z., Yang, M., Ye, J., Chin, et al
  2017; 127 (6): 2159–75

- **FoxO3 Inactivation Promotes Human Cholangiocarcinoma Tumorigenesis and Chemoresistance Through Keap1-Nrf2 Signaling** *HEPATOLOGY*
  Guan, L., Zhang, L., Gong, Z., Hou, X., Xu, Y., Feng, X., Wang, H., You, H.
  2016; 63 (6): 1914–27

- **Chaperone-mediated autophagy prevents apoptosis by degrading BBC3/PUMA** *AUTOPHAGY*
  Xie, W., Zhang, L., Jiao, H., Guan, L., Zha, J., Li, X., Wu, M., Wang, Z., Han, J., You, H.
  2015; 11 (9): 1623–35

- **TRIM39 regulates cell cycle progression and DNA damage responses via stabilizing p21** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Zhang, L., Mei, Y., Fu, N., Guan, L., Xie, W., Liu, H., Yu, C., Yin, Z., Yu, V. C., You, H.
  2012; 109 (51): 20937–42