



## Ruolun Wei

Postdoctoral Scholar, Neurosurgery

### Bio

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#### BIO

Ruolun Wei, MD, PhD, is a postdoctoral scholar in the Department of Neurosurgery at Stanford University. Dr. Wei's work centers on neuro-oncology, with particular emphasis on brain tumor recurrence, treatment resistance, and tumor metabolism. He is also a board-certified neurosurgeon, currently focusing on full-time research. His research aims to bridge the gap between clinical practice and laboratory investigation, conducting translational research that moves from bedside to bench and back to bedside to improve therapeutic outcomes for patients with malignant brain tumors.

#### PROFESSIONAL EDUCATION

- Postdoc, Stanford University , Neuro-Oncology (2025)
- Visit Ph.D., Stanford University , Neuro-Oncology (2024)
- Ph.D., Zhengzhou University , Neurosurgery/Neuro-Oncology (2024)
- Residency, Zhengzhou University, First Affiliated Hosp , Neurosurgery Resident (2020)
- M.Sc., Zhengzhou University , Neurosurgery (2018)
- M.D., Zhengzhou University , Clinical Medicine (2016)

#### STANFORD ADVISORS

- Juan Fernandez-Miranda, Postdoctoral Faculty Sponsor
- Claudia Petritsch, Postdoctoral Research Mentor

### Publications

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#### PUBLICATIONS

- **FASN Inhibition Resensitizes Chordoma to Radiotherapy by Targeting Adaptive Unsaturated Fatty Acid Metabolism.** *bioRxiv : the preprint server for biology*  
Wei, R., Meng, Y., Nasajpour, E., Panovska, D., Oft, H. C., Xing, Y. L., Lee, C. K., Fernandez-Miranda, J. C., Banu, M. A., Zare, R. N., Petritsch, C. K. 2026
- **Next-generation models to advance pediatric solid cancer treatments**  
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AMER ASSOC CANCER RESEARCH.2026
- **Comparison of Mass Spectrometry Imaging by Desorption Electrospray Ionization (DESI) and Desorption Electro-Flow Focusing Ionization (DEFFI).** *Metabolites*  
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- **ZBTB20 promotes ferroptosis through inhibiting TMEM109 expression in glioblastoma cells.** *International journal of oncology*  
Chen, X., Luo, M., Niu, X., Wang, W., Cao, H., Zhang, L., Wei, R., Duan, P.  
2025; 67 (6)
- **COMPARATIVE PATHOLOGY OF A RARE MN1::PATZ1-FUSION NEUROEPITHELIAL PRIMARY TUMOR AND RECURRENCE DEMONSTRATING MARKED HETEROGENEITY, POTENTIAL CHANGES IN TUMOR IMMUNE COMPOSITION, AND CELL-STATE TRANSITIONS**  
Nasajpour, E., Wei, R., Panovska, D., Xing, L., Dhimi, T., Che, C., Rabin, L., Feng, Z., Lyle, G., Beale, H., Kephart, E., Vaske, O., Geraldo, et al  
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- **Inflammation-driven Resistance to MAPK inhibition in Pediatric Gliomas: Mechanisms and Therapeutic Strategies**  
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- **Imprint Desorption Electrospray Ionization Mass Spectrometry Imaging (IDESI-MSI) Reveals Absorption of Triclopyr-Based Herbicide in Plants and Mouse Organs.** *Metabolites*  
Liu, H., Tian, Y., Wei, R., Meng, Y., Zare, R. N.  
2025; 15 (7)
- **BRAF/MEK inhibition induces cell state transitions boosting immune checkpoint sensitivity in BRAFV600E-mutant glioma.** *Cell reports. Medicine*  
Xing, Y. L., Panovska, D., Park, J. W., Grossauer, S., Koeck, K., Bui, B., Nasajpour, E., Nirschl, J. J., Feng, Z. P., Cheung, P., Habib, P., Wei, R., Wang, et al  
2025: 102183
- **VCAN in the extracellular matrix drives glioma recurrence by enhancing cell proliferation and migration.** *Frontiers in neuroscience*  
Wei, R., Xie, H., Zhou, Y., Chen, X., Zhang, L., Bui, B., Liu, X.  
2024; 18: 1501906
- **Glioma actively orchestrate a self-advantageous extracellular matrix to promote recurrence and progression** *BMC CANCER*  
Wei, R., Zhou, J., Bui, B., Liu, X.  
2024; 24 (1): 974
- **Evaluation of Oil-Absorbing Film for Imprint Desorption Electrospray Ionization Mass Spectrometry Imaging (IDESI-MSI) on Biological Samples.** *Metabolites*  
Li, J., Wei, R., Meng, Y., Zare, R. N.  
2024; 14 (3)
- **Online calculator to predict early mortality in patient with surgically treated recurrent lower-grade glioma.** *BMC cancer*  
Wei, R., Zhao, C., Li, J., Yang, F., Xue, Y., Wei, X.  
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- **Advanced Diagnosis of Glioma by Using Emerging Magnetic Resonance Sequences.** *Frontiers in oncology*  
Wei, R. L., Wei, X. T.  
2021; 11: 694498
- **Behavior-Oriented Nomogram for the Stratification of Lower-Grade Gliomas to Improve Individualized Treatment.** *Frontiers in oncology*  
Wei, R. L., Zhang, L. W., Li, J. G., Yang, F. D., Xue, Y. K., Wei, X. T.  
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- **A Hematological-Related Prognostic Scoring System for Patients With Newly Diagnosed Glioblastoma.** *Frontiers in oncology*  
Zhao, C., Li, L. Q., Yang, F. D., Wei, R. L., Wang, M. K., Song, D. X., Guo, X. Y., Du, W., Wei, X. T.  
2020; 10: 591352
- **Long noncoding RNA ENST00000413528 sponges microRNA-593-5p to modulate human glioma growth via polo-like kinase 1.** *CNS neuroscience & therapeutics*  
Zhang, R., Wei, R. L., Du, W., Zhang, L. W., Du, T., Geng, Y. D., Wei, X. T.  
2019; 25 (8): 842-854