

**Sam Sun, MD**

**Ironwood Cancer and Research Centers**

**Division of Radiation Oncology**

Radiation Oncologist

**Education:**

7/2017-6/2021

**Residency, Radiation Oncology**

Baylor College of Medicine, Houston, TX

7/2016-6/2017

**Internship – Internal Medicine**

University of Colorado, Denver, CO

7/2012--5/2016

**Doctor of Medicine**

Washington University, St. Louis, MO

**Professional Experience:**

8/2024-Present

Physician, Radiation Oncologist  
Ironwood Cancer & Research Centers, Goodyear, AZ

8/2021-8/2024

Physician, Radiation Oncologist  
Covenant Medical Group, Lubbock, TX

**Activities and Honors:**

*Certifications:*

American Board of Radiology (ABR), *Diplomate*

*Awards, Honors and Committees:*

Robert Carter Award (2016)

Amgen Scholar (2011)  
Olin College Full Tuition Scholarship (2008)  
U.S. Presidential Scholar (2007)

### **Professional Memberships:**

American Society of Radiation Oncology  
American Society of Clinical Oncology  
American Brachytherapy Society

### **Publications:**

#### **Research Articles**

- 1 Brunnhoelzl, Daniel, et al. "Implementation of high dose rate, CT-based prostate brachytherapy in an academic teaching hospital and residency training program." *Cureus* (2022).
- 2 Cao, Song, et al. "Dynamic host immune response in virus-associated cancers." *Communications biology* (2019).
- 3 **Sun, Sam Q.**, et al. "Database of evidence for precision oncology portal." *Bioinformatics*. (2018).
- 4 Sengupta, Sohini; Sun, Sam Q., et al. "Integrative omics analyses broadens treatment targets in human cancer." *Genome medicine*. (2018). PMID: 30053901
- 5 Ding, Li, et al. "Perspective on oncogenic processes at the end of the beginning of cancer genomics." *Cell* (2018). PMID: 29625049
- 6 Gao, Qingsong, et al. "Driver fusions and their implications in the development and treatment of human cancers." *Cell reports* (2018). PMID: 29617662
- 7 Cao, Yanan, et al. "Pan-cancer analysis of somatic mutations across 21 neuroendocrine tumor types." *Cell research* (2018). PMID: 29507395
- 8 Huang, Kuan-lin, et al. "Proteogenomic integration reveals therapeutic targets in breast cancer xenografts." *Nature communications* (2017). PMID: 27294619
- 9 Niu, Beifang, et al. "Protein-structure-guided discovery of functional mutations across 19 cancer types." *Nature genetics* (2017). PMID: 27294619
- 10 Gum, Jeffrey, et al. "Posterior-only vertebral column resection for fused spondyloptosis." *Spine deformity* (2017). PMID: 29287823

- 11 **Sun, Sam Q.**, et al. "Radiation therapy for residual or recurrent atypical meningioma: the effects of modality, timing, and tumor pathology on long-term outcomes." *Neurosurgery* (2016). PMID: 26645969
- 12 **Sun, Sam Q.**, et al. "Simpson grade I-III resection of spinal atypical (World Health Organization Grade II) meningiomas is associated with symptom resolution and low recurrence." *Neurosurgery* (2015). PMID: 25774702
- 13 **Sun, Sam Q.**, et al. "An evidence-based treatment algorithm for the management of WHO Grade II and III meningiomas." *Neurosurgical focus* (2015). PMID: 25727225
- 14 **Sun, Sam Q.**, et al. "Management of atypical cranial meningiomas, part 1: predictors of recurrence and the role of adjuvant radiation after gross total resection." *Neurosurgery* (2014). PMID: 24932707
- 15 **Sun, Sam Q.**, et al. "Management of atypical cranial meningiomas, part 2: predictors of progression and the role of adjuvant radiation after subtotal resection." *Neurosurgery* (2014). PMID: 24932708

## Presentations

- 1 **Sun, Sam Q.** Druggable genomic landscape of primary and metastatic breast cancers. San Antonio Breast Cancer Symposium, 2018.
- 2 **Sun, Sam Q.** Proteogenomic integration broadens treatment targets in human cancers. Texas Radiological Society, 2018.
- 3 Shen, Wei, et al. Retrospective analysis of circulating tumor DNA of archived plasma samples in metastatic colorectal cancer patients. ASCO, 2016.
- 4 **Sun, Sam Q.**, et al. Simpson grade II resection of spinal atypical meningiomas is associated with symptom resolution and low recurrence. Congress of Neurological Surgeons, 2014.
- 5 Cai, Chunyu, et al. Histological predictors of progression and radiosensitivity in intracranial atypical meningioma after gross total or subtotal resection. American Association of Neuropathology, 2014.
- 6 Gum, Jeffrey L., et al. Diagnosing congenital cervical stenosis on lateral radiographs: The utility of laminar depth. Cervical Spine Research Society, 2014.
- 7 **Sun, Sam Q.**, et al. Radiation therapy for residual atypical meningioma. American Association of Neurological Surgeons, 2014.
- 8 **Sun, Sam Q.**, et al. Risk factors for the recurrence of atypical meningiomas. American Association of Neurological Surgeons, 2014.
- 9 Holekamp, Terry F., et al. Neurologic risks associated with treating myelopathy due to severe spinal deformity with vertebral column resection. Scoliosis Research Society, 2013.
- 10 Webb, Andrew, et al. Resurrection of boron neutron capture therapy in an era of nano-oncology. International Cancer Immunotherapy Symposium, 2012.

11 **Sun, Sam Q.**, et al. The effect of RASSF1A on FasL-mediated apoptosis in Jurkat T cells. American Society of Cell Biology, 2010.

### **Clinical Trials:**

**Site Principal Investigator** for REPLACE-CV, A Randomized Study to Evaluate MACE in Patients with Prostate Cancer Treated with Relugolix or Leuprolide Acetate (NCT05605964).

**Site Co-Investigator** for NRG-BN012, A Randomized Phase III Trial of Pre-Operative Compared to Post-Operative Stereotactic Radiosurgery in Patients with Resectable Brain Metastases (NCT04474925).

**Site Co-Investigator** for NRG-GU011, A Phase II Double-Blinded, Placebo Controlled Trial of Prostate Oligometastatic Radiotherapy with or without Androgen Deprivation Therapy in Oligometastatic Prostate Cancer (NCT05053152).

### **Research Trials:**

Sub investigator in Ironwood Cancer and Research Centers trials, please refer to website for details.