



Ruben Fragoso, M.D., Ph.D.

Philosophy of Care

Undergoing radiation treatments can be scary and overwhelming. Each patient has a unique situation involving their specific diagnosis and the treatment of their disease. It is important to recognize the patient's unique issues in order to provide care for the patient as a whole person. It is also important to help patients understand their diagnosis so that they can make more informed decisions and understand their care.

Clinical Interests

Dr. Fragoso's main clinical activities involve the treatment of both benign and malignant central nervous tumors that can arise in the adult and pediatric populations. Radiation treatment techniques include Gamma Knife radiosurgery and fractionated radiation radiotherapy (3D or IMRT). Medical interests revolve around the better understanding of gliomas, particularly high grade gliomas.

Glioblastoma multiforme (GBM), a WHO grade IV glioma, carries a poor prognosis for which there have been modest therapeutic advances. My area of interest and research is focused on targeting specific cancer cells that are thought to perpetuate the tumor within the GBM itself. These "cancer stem cells" tend to be resistant to treatment. We are studying ways in which these cells can be targeted specifically and destroyed.

Title Assistant Professor

Specialty [Cancer, Radiation Oncology](#)

Department Radiation Oncology

Division Radiation Oncology

Clinic UC Davis Cancer Center

Center/Program Affiliation [UC Davis Comprehensive Cancer Center](#)

Address/Phone UC Davis Comprehensive Cancer Center, 4501 X St. Suite 0140 Sacramento, CA 95817
Phone: 800-362-5566

Additional Phone Physician Referrals: 800-362-5566

Languages Spanish

Education M.D., Harvard Medical School, Boston, Massachusetts, 2004
Ph.D., Harvard Medical School, Boston, Massachusetts, 2004



Ruben Fragoso, M.D., Ph.D.

B.A., Princeton University, Princeton, New Jersey, 1992

Internships Morristown Memorial Hospital, Morristown, New Jersey, 2005

Residency Thomas Jefferson University Hospital, Philadelphia, Pennsylvania, 2009

Professional Memberships American Association of Cancer Research
American College of Radiation Oncology
American Society of Therapeutic Radiology and Oncology
Radiological Society of North America

Select Recent Publications Donaldson JM, Kari C, Fragoso RC, Rodeck U, Williams JC. Design and development of masked therapeutic antibodies to limit off-target effects: Application to anti-EGFR antibodies. *Cancer Biol Ther*, 8(22). 2009

Fragoso RC, Pyarajan S, Irie HY, Burakoff SJ. A CD8/Lck transgene is able to drive thymocyte differentiation. *J Immunol*, 177(9): 6007-17. 2006

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