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[Home](#) > [Our Team](#) > [Medical Faculty](#) > [Steve Braunstein](#)

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## Steve Braunstein

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### Steve Braunstein, M.D., Ph.D.



#### Assistant Professor Department of Radiation Oncology

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### Professional Focus

Dr. Steve Braunstein is a radiation oncologist with a clinical interest in the treatment of central nervous system, pediatric, thoracic, and soft tissue malignancies. He has expertise in modern radiation therapy techniques including stereotactic radiotherapy, intraoperative radiotherapy, and intensity modulated radiation therapy.

Dr. Braunstein earned his M.D. at New York University School of Medicine where he also obtained a Ph.D. studying essential molecular pathways by which cancer cells mediate

response to radiation. Throughout his radiation oncology residency at UCSF, he has continued such work to further resolve genetic polymorphisms which yield the observed heterogeneity of tumor cell population radiosensitivity and risk of radiation-related secondary cancers. He continues to expand his work in current translational research efforts towards intensifying the tumor response while minimizing treatment-related toxicity for patients undergoing radiation therapy as part of modern multimodal cancer treatment.

## Education

2009	New York University School of Medicine, New York	MD/PhD	
2010	Brigham and Women's Hospital, Boston, MA	Internship	Internal Medicine
2010-2014	University of California San Francisco, San Francisco, CA	Resident	Radiation Therapy
2013	University of California San Francisco, San Francisco, CA	Chief Resident	Radiation Therapy

## Professional Experience

2014-present UCSF Assistant Professor in Residence Radiation Oncology

## Awards & Honors

1996 Presidential Full Tuition College Scholarship

1997 Phi Beta Kappa Inductee

1997 HHMI Undergraduate Student Research Fellowship

1998 CUNY Jonas Salk Medical Scholarship

2003 NYC Urban Health Initiative Grant

2008 Honors in Doctoral Dissertation

2008 AOA Inductee

2012 UCSF Patient Care Fund Grant

2013 UCSF Resident QI Champion

2013 UCSF Exceptional Physician Award

2014 Mount Zion Health Fund Research Award

2014 UCSF Patient Care Fund Grant

Recent Significant Publications :

Braunstein S, Dioniso S, Lometti M, Pinnaduwege D, Chuang C, Yom S, Gottschalk A, Descovich, M. **Evaluation of Ray Tracing and Monte Carlo algorithms in dose calculation and clinical outcomes for robotic stereotactic body radiotherapy of lung cancers.** JSBRT 2014;3(1):67-79.

Braunstein S, Nakamura JL. **Radiotherapy-induced malignancies: Review of clinical features, pathobiology and evolving approaches for mitigating risk.** Front Oncol 2013 Apr;3:73. PMID 23565507.

Nie K, Chuang C, Kirby N, Braunstein S, Pouliot J. **Site-Specific Deformable Imaging Registration (DIR) Algorithm Selection Using Patient-Based Simulated Deformations.** Med Phys 2013 Apr; 40(4). PMID 23556905.

Choi G, Huang B, Pinarbasi E, Braunstein S, Horvai A, Kogan S, Bhatia S, Faddegon B, Nakamura JL. **Genetically mediated Nf1 loss in mice promotes diverse radiation-induced tumor modeling second malignant neoplasms.**Cancer Res 2012 Dec;72(24):5425-34. PMID 23071067.

Badura M, Braunstein S, Zavadil J, Schneider RJ. **DNA damage and eIF4GI in breast cancer cells reprogram translation for survival and DNA repair mRNAs.** PNAS. 2012 Nov;109(46):18767-72. PMID 23112151.

Ramirez-Valle F, Badura ML, Braunstein S, Narasimhan M, Schneider RJ. **Mitotic raptor promotes mTORC1 activity, G(2)/M cell cycle progression, and internal ribosome entry site-mediated mRNA translation.** Mol Cell Biol. 2010 Jul;30(13):3151-64. PMID: 20439490.

Braunstein S, Badura ML, Xi Q, Formenti SC, Schneider RJ. **Regulation of protein synthesis by ionizing radiation.** Mol Cell Biol. 2009 Nov; 29(21):5645-5656. Cited in Pubmed; PMID: 19704005

Matsumura S, Wang B, Kawashima N, Braunstein S, Badura M, Cameron TO, Babb JS, Schneider RJ, Formenti SC, Dustin ML, Demaria S. **Radiation-induced CXCL16 release by breast cancer cells attracts effector T cells.** J Immunol. 2008 Sep; 181(5): 3099-3107. PMID: 18713980.

Ramírez-Valle F, Braunstein S, Zavadil J, Formenti SC, Schneider RJ. **eIF4GI links nutrient sensing by mTOR to cell proliferation and inhibition of autophagy.** J Cell Biol. 2008 Apr; 181(2): 293-307. PMID: 18426977.

Braunstein S, Formenti SC, Schneider RJ. **Acquisition of stable inducible up-regulation of nuclear factor-kappaB by tumor necrosis factor exposure confers increased radiation resistance without increased transformation in breast cancer cells.** Mol Cancer Res. 2008 Jan; 6(1): 78-88. PMID: 18234964.

**Source URL:** <http://radonc.ucsf.edu/steve-braunstein>

**Links**

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