



Julian R. Perks, Ph.D.

Clinical Interests Dr. Perks is a physicist whose clinical interests include stereotactic radiotherapy as well as radiosurgery planning and treatment delivery. In particular, he has been focusing on the commissioning and clinical integration of a new gamma-knife system for the treatment of intracranial lesions. He also is working to expand the department's intensity-modulated radiotherapy (IMRT) capabilities. Dr. Perks's research activities include the comparison of linear accelerator and gamma knife-based radiosurgery procedures, optimizing imaging protocols, and the retrospective analysis of cone beam CR predictive outcome models to develop data for UC Davis. As a researcher, he does not see patients.

Title Physicist

Specialty [Cancer, Radiation Oncology](#)

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Education Ph.D., University of Birmingham, Birmingham UK 1996
B.Sc., University of Birmingham, Birmingham UK 1993

Select Recent Publications Liu R, Fan M, Candas D, Qin L, Zhang X, Eldridge A, Zou JX, Zhang T, Juma S, Jin C, Li RF, Perks J, Sun LQ, Vaughan AT, Hai CX, Gius DR, Li JJ. CDK1-Mediated SIRT3 Activation Enhances Mitochondrial Function and Tumor Radioresistance. *Mol Cancer Ther.* 2015 Sep;14(9):2090-102.

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