



## 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](#)

**Department** [Radiation Oncology](#)

**Division** Radiation Oncology

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

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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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