



MASSACHUSETTS
GENERAL HOSPITAL



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2-year full time postdoctoral Research Fellow position: Extreme Dose Rate (FLASH) mouse experiments with protons

Summary: We are looking for a postdoctoral Research Fellow in Radiation Oncology for an exciting, inter-disciplinary project aimed at investigating the potential for using extreme dose rate (EDR) irradiations, also called FLASH irradiations, in proton therapy. The project is aimed at first establishing tissue sparing effects in proton irradiations. Additional experiments will long at the underlying mechanism responsible for the effect. This project involves significant amount of mouse work. The fellow will be responsible for the EDR experiments, helping in the design of the experiments, conducting the irradiations and following the mice to the determined end-points, both for acute and late effects. The candidate will take advantage of unique resources available at MGH, including the mouse and the the proton facilities. The results are anticipated to translate into novel treatments for our patients within a few years.

Qualifications: A Ph.D. and/or M.D. in oncology, molecular/cellular biology, pathology, medical physics or a related field is required. The successful candidate should be highly motivated and a team player with a strong interest in an academic career in cancer research. Applicants should be skilled in basic mouse handling techniques, including anesthetizing mice and routine tasks of daily maintenance. Additional expertise in radiation experiments, wet lab techniques including basic molecular biology assays and cell line handling, or a background in physics/computation, radiation biology is desirable but not required. MGH is an equal opportunity employer. We value diversity highly and encourage international and minority candidates to apply.

If you wish to apply, please email your CV and have at least 3 recommendation letters sent to:

Start Date: As soon as possible. Negotiable.

For further information, please contact Jan Schuemann (jschuemann@mgh.harvard.edu).