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Wanchang Cui, Ph.D.

Editor of

Journal of Integrative Oncology

Biography

Dr. Cui is a Research Associate at the Department of Radiation Oncology, University of Maryland School of Medicine. He received his PhD from the University of Rochester in 2008 and went on to a postdoctoral fellowship at the Johns Hopkins Bloomberg School of Public Health. After finishing the first postdoctoral training, he started his second postdoctoral training with Dr. Thomas MacVittie at the University of Maryland and finally joined the faculty there. His expertise covers molecular biology, genomics, radiation toxicity and clinical supporting of non-human primate related research. His current research is focused on defining molecular mechanisms of ionizing radiation induced normal tissue damage, mechanism of action of radiation mitigators and biomarkers of radiation induced toxicity in non-human primate models.

Research Interests

Radiation Oncology

Recent Publications

- NRF2-mediated Notch pathway activation enhances hematopoietic reconstitution following myelosuppressive radiation. Journal of Clinical Investigation. 124, 2, p. 730-741

- A pilot study in rhesus macaques to assess the treatment efficacy of a small molecular weight catalytic metalloporphyrin antioxidant (AEOL 10150) in mitigating radiation-induced lung damage. Health Physics. 106, 1, p. 73-83

- Cool-1-mediated inhibition of c-Cbl modulates multiple critical properties of glioblastomas, including the ability to generate tumors in vivo. Stem Cells. 32, 5, p. 1124-1135

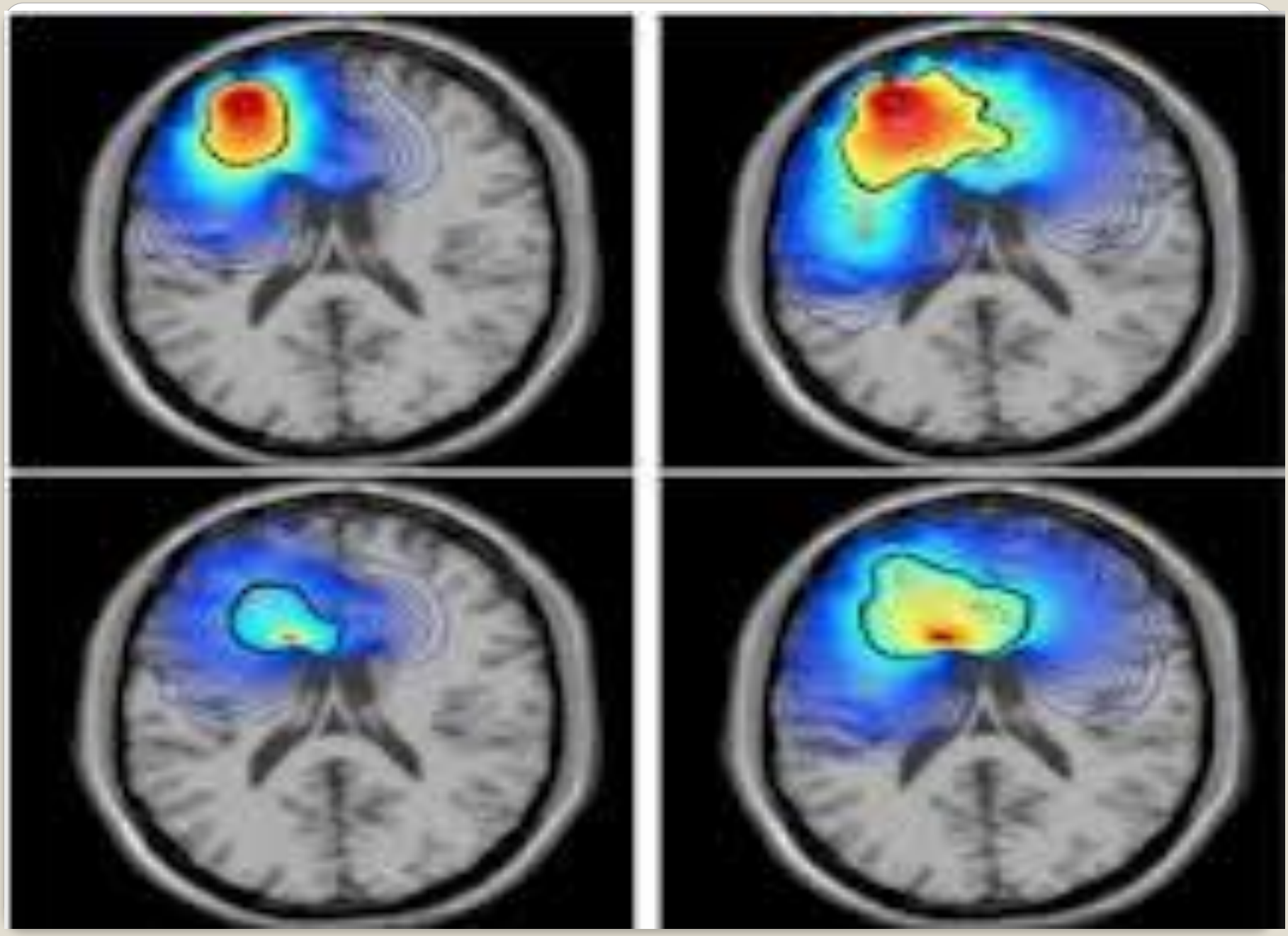
- The delayed pulmonary syndrome following acute high-dose irradiation: A rhesus macaque model. Health Physics. 106, 1, p. 56-72

- Plasma miRNA as biomarkers for assessment of total-body radiation exposure dosimetry. PLoS One. 2011;6(8):e22988

Radiation Oncology

- Radiation oncology is a medical specialty that utilizes various forms of radiation to treat cancer. It is a unique blend of state-of-the-art technology and warm personal care by a multidisciplinary radiation therapy team.

Radiation is a local treatment that affects cancer cells only in the treated area. The treatment itself is painless and the radiation is used to damage cancer cells, stopping them from growing and dividing. Radiation can come from a high energy X-ray machine (external radiation) or from a small source of radioactive material placed close to or directly into the tumor (brachytherapy).



Related journals

- Chemotherapy: Open Access
- Journal of Leukemia

Related Conference

- Global Cancer Conference
- 4th World Congress on Cancer Science and Therapy

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