Stem cell based therapies for cancer

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Abstract
Stem cell homing to tumors represents an attractive modality for onsite-delivery of therapeutic molecules to tumors. Emphasis will be on the 1) utility of stem cells as pro-apoptotic, anti-angiogenic and anti-proliferative therapeutic vehicles in treating cancer; and 2) integration of optical imaging techniques to assess the fate of stem cells, tumors and pharmacokinetics of therapeutic proteins in mouse models of cancer.

References:
5. Yip, S. and Shah, K., Stem cell based therapies for brain malignancies; Current Opinions in Molecular Therapy, 2008; 10, 334-342.

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http://www.kshahlabs.org
http://cmir.mgh.harvard.edu/fac/faculty/about/20

Biography
Dr. Khalid Shah received his MS and Ph.D. at Wageningen University and Research Center, The Netherlands in 2001. Following a three-year postdoctoral position at Massachusetts General Hospital/Department of Neurology, Harvard Medical School, he now heads the Molecular Neurotherapy and Imaging Laboratory in the departments of Radiology and Neurology at Massachusetts General Hospital since 2005. His laboratory is focused on developing novel stem cell based targeted therapies for brain tumors and neurodegenerative diseases. In addition, Dr. Shah is the Director of the Stem Cell Therapeutics and Imaging program in the Center for Translational Research at MGH and also directs the Stem Cell Imaging Program in the Center for Molecular Imaging Research at MGH.