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Memorial Sloan Kettering
Cancer Center

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Arnab Ghosh, MD, PhD

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Research Fellow

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Lab Phone

646-888-2317

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Start Year

2008

End Year

2013

Education

Mysore Medical College (MD), Karnataka, India and Medizinische Hochschule Hannover (PhD), Hannover, Germany

The focus of my research is make tumor immunotherapy more effective and competent. Allogeneic hematopoietic stem cell transplantation (AHSCT) in combination with donor lymphocyte infusion has been a very effective therapy option for a variety of cancers. However, its use has to some extent been limited by graft-versus-host disease (GVHD), delayed immunological reconstitution and the rarity of suitable donors. Recent studies indicate that precursor T cells have a huge potential as suitable immunotherapeutic agents. The precursor T cells are generated in vitro from hematopoietic stem cells co-cultured with NOTCH expression systems. The resultant cells have antitumor properties, do not cause GVHD, enhances T cell reconstitution and can be used as an off-the shelf cellular therapy. Furthermore, they can be genetically manipulated to enhance their anti-tumor properties. My present research involves exploring the potentials of precursor T cells. In addition, I am presently designing protocols that can be used to manufacture human precursor T cells for use in clinical settings.

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