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Robert R. Jenq, MD

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Lab Phone

646-888-2317

Education

Oregon Health and Science University School of Medicine, Portland, Oregon

My career aim is to develop and evaluate strategies that improve outcomes after hematopoietic stem cell transplantation (HSCT), in particular by augmenting graft-versus-tumor (GVT) to reduce the rates of malignant relapse and alleviating graft-versus-host

disease (GVHD). To this goal, I have studied therapies that modulate alloreactive T cells in GVT and GVHD, using mouse models of HSCT.

To develop strategies of augmenting anti-tumor immunity following HSCT, I have focused in particular on T cell repertoire enhancement strategies. Simultaneously, I have begun to study the T cell repertoire in the setting of GVHD. Finally, I have also examined how aspects of mucosal immunology can impact on intestinal GVHD, including the microbial flora and dietary factors.

Awards

BMT Tandem 2014 Best Abstract

Grant

“Microbiota-focused strategies to mitigate GVHD”

Source: NIH/NHLBI R01 HL124112

Dates of Support: 8/15/15 to 8/14/20

Manuscript reviewer

Biology of Blood and Marrow Transplantation

Blood

Bone Marrow Transplantation

Mucosal Immunology

Science Translational Medicine

Honors

10/08: Oral presentation: Federation of Immunological Societies of Asia-Oceania

1/11: Participant: MSK Center for Microbes, Inflammation, and Cancer Microbial Ecology Workshop

2/11: Oral presentation: BMT Tandem Meetings

4/11: Oral presentation: Nature meeting, Microbiota and mucosal immunology: the interface in health and disease

10/12: Oral presentation: Universidad Internacional de Andalucia - the microbiome: role in health and disease

12/12: Invited speaker: American Society of Hematology Annual Meeting, Scientific Committee on Transplantation Biology

7/13: Invited speaker: Lucille Castori Center for Microbes, Inflammation & Cancer Annual Summer Symposium

2/14: Invited speaker: Graft vs. Host Responses in HIV Eradication Workshop, National Institute of Allergy and Infectious Diseases

2/14: BMT Tandem Meetings Best Abstract Award for Basic Science Research: “Identification of Intestinal Commensal Bacteria Protective Against GVHD in Mice and Humans”

6/14: Invited speaker: Working Group on the Microbiome in Cardiovascular, Pulmonary and Hematologic Health and Diseases, National Heart, Lung and Blood Institute

7/14: Invited speaker: University of Minnesota Adult BMT Grand Rounds: “Intestinal flora and outcomes in allogeneic BMT”

3/15: Invited speaker: Dana-Farber Cancer Institute Stem Cell Transplantation Grand Rounds: "Intestinal flora and outcomes in allogeneic BMT"

5/15: Invited speaker: Columbia University Pediatric Hematology/Oncology/Stem Cell Transplantation Division Grand Rounds: "Intestinal flora and outcomes in allogeneic BMT"

9/15: Invited speaker: Canadian Blood and Marrow Transplant Group: Graft-Versus-Host Disease Symposium: "Intestinal bacterial flora and outcomes after allogeneic BMT"

Publications

[Jenq RR, King CG, Volk C, Suh D, Smith OM, Rao U, Yim N, Holland AM, Lu SX, Zakrzewski JL, Goldberg GL, Diab A, Alpdogan O, Penack O, Na IK, Kappel LW, Wolchok JD, Houghton AN, Perales MA, van den Brink MRM. Keratinocyte growth factor enhances DNA plasmid tumor vaccine responses following murine allogeneic bone marrow transplantation. Blood. 2009 Feb 12;113\(7\):1574-80.](#)

[Jenq RR, van den Brink MR. Allogeneic haematopoietic stem cell transplantation: individualized stem cell and immune therapy of cancer. Nat Rev Cancer. 2010 Mar;10\(3\):213-21.](#)

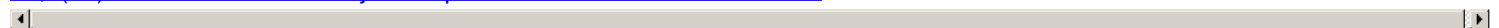
[Jenq RR*, Curran MA*, Goldberg GL, Liu C, Allison JP, van den Brink MR. Repertoire Enhancement with Adoptively Transferred Female Lymphocytes Controls the Growth of Pre-Implanted Murine Prostate Cancer. PLoS One. 2012;7\(4\):e35222. Epub 2012 Apr 6.](#)

[Jenq RR*, Ubeda C*, Taur Y, Menezes CC, Khanin R, Dudakov JA, Liu C, West ML, Singer NV, Equinda MJ, Gobourne A, Lipuma L, Young LF, Smith OM, Ghosh A, Hanash AM, Goldberg JD, Aoyama K, Blazar BR, Pamer EG, van den Brink MR. Regulation of intestinal inflammation by microbiota following allogeneic bone marrow transplantation. J Exp Med. 2012 May 7;209\(5\):903-11. Epub 2012 Apr 30.](#)

[Jenq RR*, Curran MA*, Goldberg GL, Liu C, Allison JP, van den Brink MR. Repertoire Enhancement with Adoptively Transferred Female Lymphocytes Controls the Growth of Pre-Implanted Murine Prostate Cancer. PLoS One. 2012;7\(4\):e35222. Epub 2012 Apr 6.](#)

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[Diab A*, Jenq RR* \(* These authors contributed equally\), Rizzuto GA, Cohen AD, Huggins DW, Merghoub T, Engelhorn ME, Guevara-Patiño JA, Suh D, Hubbard-Lucey VM, Kochman AA, Chen S, Zhong H, Wolchok JD, van den Brink MR, Houghton AN, Perales MA. Enhanced responses to tumor immunization following total body irradiation are time-dependent. PLoS One. 2013 Dec 12;8\(12\):e82496. doi: 10.1371/journal.pone.0082496. eCollection 2013.](#)



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