

University of Miami Miller School of Medicine
Krishna Komanduri, M.D.
Curriculum Vitae

June, 2013

I. PERSONAL

Name: Krishna Komanduri
Current Academic Rank: Professor of Medicine
Current Track of Appointment: Tenured
Primary Department: Medicine
Secondary or Joint Appointments: Microbiology and Immunology
Kalish Family Chair in Stem Cell Transplantation
Citizenship: USA
Visa Type (if non-citizen): N/A
Marital Status: Married (to Cheryl L. Komanduri)
Children: Kiran (b. 2002), Malini (2002), Jaya (2002),
Arjun (2006)

II. HIGHER EDUCATION

**Institutional:
Degree-Granting Education**

Massachusetts Institute of Technology, Cambridge, Massachusetts, SB, 1987, Biology with humanities concentration in English Literature

University of Minnesota Medical School, Minneapolis, Minnesota, MD, 1991, Medicine

Postgraduate Training

Internship and Residency in Internal Medicine, University of California, Los Angeles, California, 6/1991–6/1994

Clinical Fellowship, University of California, San Francisco, California, 7/1994–6/1997

Postdoctoral Fellowship, Gladstone Institute of Virology & Immunology, UCSF, San Francisco, California, Joseph (Mike) McCune, M.D., Ph.D., 6/1996–8/1999

Non-Institutional:

N/A

**Certification, licensure:
Board Certification**

American Board of Internal Medicine, 8/1994

ABIM Certification in Medical Oncology, 11/1997

ABIM Certification in Hematology, 11/1998

ABIM Hematology Recertification, 2009 (exp. 12/31/2019)

Licensures

Active

Florida Medical License, ME103316, 12/3/2013-1/31/2015

Texas Medical License, L7780, 12/2010–11/2012

Inactive

California, G77378, 1/1993–1/2000

III. EXPERIENCE**Academic**

Laboratory Teaching Assistant, Introduction to Experimental Biology, Massachusetts Institute of Technology, Cambridge, Massachusetts, 9/1985-5/1987

Course Faculty, Hematology Section, Introduction to Clinical Medicine, University of California-San Francisco School of Medicine, San Francisco, California, 1/1996–1/1999

Assistant Professor, UCSF School of Medicine, San Francisco, California, 1/1997–8/1999

Assistant Professor, Department of Stem Cell Transplantation, Division of Cancer Medicine, UT M.D. Anderson Cancer Center, Houston, Texas, 7/1999–9/2006

Director of Clinical Fellowship Program, Department of Stem Cell Transplantation, Division of Cancer Medicine, UT M.D. Anderson Cancer Center, Houston, Texas, 1/2000–2008

Associate Director of Hematology/Oncology Fellowship Program, Department of Stem Cell Transplantation, Division of Cancer Medicine, UT M.D. Anderson Cancer Center, Houston, Texas, 1/2005–2008

Associate Professor, Department of Stem Cell Transplantation, Division of Cancer Medicine, University of Texas, Houston, Texas, 9/2006–2008

Director, Adult Stem Cell Transplant Program – Department of Medicine, Hematology/Oncology, University of Miami Sylvester Cancer Center Miami, FL 7/2008 – Present

Co-leader (with Eli Gilboa, Ph.D.) Sylvester Cancer Center Tumor Immunology Program, 2010-Present

Sylvester Cancer Center Administrative Committees: Member, Sylvester Executive Committee, Scientific Steering Committee and Recruitment Oversight Committee.

Medical Director, Experimental and Clinical Therapies Lab (cGMP and cGTP laboratories supporting research and clinical cell therapies), University of Miami Interdisciplinary Stem Cell Institute and Sylvester Cancer Center, Miami, FL, 2/2010-Present

Hospital Appointments

Associate Director of Cell Processing, Department of Stem Cell Transplantation - Research, Division of Cancer Medicine, UT M.D. Anderson Cancer Center, Houston, Texas, 9/1999-8/2000

Non-Academic

N/A

Military

N/A

IV. PUBLICATIONS

Book and Monographs

1. Lekakis L, Komanduri KV. Immunologic outcomes of allogeneic stem cell transplantation: graft-versus-host and graft-versus-leukemia responses and implications for future therapy, *in* Advances in tumor immunology and immunotherapy, 2013.
2. Komanduri KV Gajewski J. Immune Reconstitution after Stem Cell Transplantation. In: Cellular Therapy: A Physician's Handbook. American Association of Blood Banks, 2004.
3. Komanduri KV McCune JM. Development and Reconstitution of T Lymphoid Immunity. In: Retroviral Immunology. Humana Press, 2001.
4. Solomon S Komanduri KV. The Immune System. In: Biotherapy: A Comprehensive Overview. Jones and Bartlett, 38-63, 2000.
5. Kleiner G, Kritzer-Cheren M, Phillip Ruiz P, Komanduri K, Lekakis L. Textbook: Transplantation Pathology: Pathology of Hematopoietic Stem Cell Transplantation, 2013

Juried or Refereed Journal Articles or Exhibitions

1. Parikh SH, Mendizabal A, Benjamin CL, Komanduri KV, Antony J, Petrovic A, Hale G, Driscoll TA, Martin PL, Page K, Flickinger K, Moffet J, Niedzwiecki D, Kurtzberg J, Szabolcs P. A novel reduced intensity conditioning regimen for unrelated umbilical cord blood transplantation in children with non-malignant diseases. Biol Blood Marrow Transplant. 2013 Nov 29. doi:pii: S1083-8791(13)00558-2. 10.1016/j.bbmt.2013.11.021. [Epub ahead of print]
2. Newman RG, Ross DB, Barreras H, Herretes S, Podack ER, Komanduri KV, Perez VL, Levy RB. The allure and peril of hematopoietic stem cell transplantation: overcoming immune challenges to improve success. Immunol Res. 2013 Nov 23. [Epub ahead of print] PMID: 24272856 [PubMed - as supplied by publisher]
3. Komanduri KV, Wieder ED, Benjamin CL, Levy RB. The evolving art of hematopoietic stem cell transplantation: translational research in post-transplant immune reconstitution and immunosuppression. Immunol Res. 2013 Nov 17. [Epub ahead of print] PMID: 24242818 [PubMed - as supplied by publisher]
4. Díaz-Montero CM, Zidan AA, Pallin MF, Anagnostopoulos V, Salem ML, Wieder E, Komanduri K, Montero AJ, Lichtenheld MG. Understanding the biology of ex vivo-expanded CD8 T cells for adoptive cell therapy: role of CD62L. Immunol Res. 2013 Nov 12. [Epub ahead of print] PMID: 24218360 [PubMed - as supplied by publisher]
5. Ross D, Jones M, Komanduri K, Levy RB. Antigen and lymphopenia-driven donor T cells are differentially diminished by post-transplantation administration of cyclophosphamide after hematopoietic cell transplantation. Biol Blood Marrow Transplant. 2013 Oct;19(10):1430-8. doi: 10.1016/j.bbmt.2013.06.019. Epub 2013 Jun 29.
6. Shindo T, Kim TK, Benjamin CL, Wieder ED, Levy RB, Komanduri KV. MEK inhibitors

- selectively suppress alloreactivity and graft-versus-host disease in a memory stage-dependent manner. *Blood* 2013 Jun 6;121(23):4617-26. doi: 10.1182/blood-2012-12-476218. Epub 2013 Apr 10. PMID: 23575444 [PubMed - indexed for MEDLINE]
7. Komanduri KV. Targeting neovascularization in GVHD. *Blood*. 2013 Apr 25;121(17):3303-4. doi: 10.1182/blood-2013-01-480483.
 8. Vence LM, Wang C, Pappu H, Anson RE, Patel TA, Miller P, Bassett R, Lizee G, Overwijk WW, Komanduri K, Benjamin C, Alvarado G, Patel SP, Kim K, Papadopoulos NE, Bedikian AY, Homsy J, Hwu WJ, Boyd R, Radvanyi L, Hwu P. Chemical Castration of Melanoma Patients Does Not Increase the Frequency of Tumor-specific CD4 and CD8 T Cells After Peptide Vaccination. *J Immunother*. 2013 May;36(4):276-86. doi: 10.1097/CJI.0b013e31829419f3
 9. Komanduri KV. Pharmacists and physicians in hematopoietic stem cell transplantation: advances and opportunities to utilize collaborative practice agreements to improve care. *Biol Blood Marrow Transplant*. 2013 Feb 13. doi: 10.1016/j.bbmt.2013.02.004. [Epub ahead of print]
 10. Khan S, Juckett MB, Komanduri KV, Krishnan A, Burns LJ. American Society of Blood and Marrow Transplantation: Guidelines for Training in Hematopoietic Progenitor Cell Transplantation. *Biol Blood Marrow Transplant*. 2012 Sep;18(9):1322-8.
 11. Komanduri K. GVHD Protection? ThiNK iNKT cells. *Blood*. 2012 Sep 6;120(10):1972-3.
 12. Joseph RW, Bayraktar UD, Kim TK, John LS, Popat U, Khalili J, Molldrem JJ, Wieder ED, Komanduri KV. Vitamin D receptor upregulation in alloreactive human T cells. *Hum Immunol*. 2012 Jul;73(7):693-8.
 13. Joseph RW, Alousi A, Konda B, Komanduri K, Neumann J, Trevino C, Stolar K, Qazibash M, Hosing C, Kebriaei P, Couriel DR, Champlin RE, Saliba R, Popat U. High incidence of vitamin D deficiency in patients undergoing allogeneic stem cell transplantation. *Am J Hematol*. 2011 Nov;86(11):954-6.
 14. Bayraktar UD, Kim TK, Drews-Elger K, Benjamin C, El-Ashry D, Wieder E, Komanduri KV. Simultaneous Measurement of ER α , HER2, and PhosphoERK1/2 in Breast Cancer Cell Lines by Flow Cytometry. *Breast Cancer Research and Treatment*. 2011 Sep;129(2):623-8.
 15. Díaz-Montero CM, Naga O, Zidan AA, Salem ML, Pallin M, Parmigiani A, Walker G, Wieder E, Komanduri K, Cole DJ, Montero AJ, Lichtenheld MG. Synergy of brief activation of CD8 T-cells in the presence of IL-12 and adoptive transfer into lymphopenic hosts promotes tumor clearance and anti-tumor memory. *Am J Cancer Res*. 2011 Aug 30;1(7):882-896.
 16. Komanduri KV, Champlin RE. Can Treg therapy prevent GVHD? *Blood*. 2011 Jan 20;117(3):751-2.
 17. Li D, Li Y, Hernandez JA, Patenia R, Kim TK, Khalili J, Dougherty MC, Hanley PJ, Bollard CM, Komanduri KV, Hwu P, Champlin RE, Radvanyi LG, Molldrem JJ, Ma Q. Lovastatin Inhibits T-cell Proliferation While Preserving the Cytolytic Function of EBV, CMV, and MART-1-specific CTLs. *J Immunother*. 2010 Nov-Dec;33(9):975-82.
 18. Carreño R, Brown WS, Li D, Hernandez JA, Wang Y, Kim TK, Craft JW Jr, Komanduri KV, Radvanyi LG, Hwu P, Molldrem JJ, Legge GB, McIntyre BW, Ma Q. 2E8 binds to the high affinity I-domain in a metal ion-dependent manner: a second generation monoclonal antibody selective targeting activated LFA-1. *J Biol Chem*. 2010 Oct 22;285(43):32860-8.
 19. De Lima M, Giral S, Thall PF, de Padua Silva L, Jones RB, Komanduri KV, Braun TM, Nguyen HQ, Champlin R, Garcia-Manero G. Maintenance therapy with low-dose azacitidine after allogeneic hematopoietic stem cell transplantation for recurrent acute myelogenous leukemia or myelodysplastic syndrome: a dose and schedule finding study. *Cancer*. 2010 Jul 29.

20. Escalon ME, Komanduri KV. Cord blood transplantation: evolving strategies to improve engraftment and immune reconstitution. *Curent Opinion in Oncology*, 2010 Mar 22(2):122-9.
21. Kim TK, Billard MJ, Wieder ED, McIntyre WB, Komanduri KV. Co-engagement of alpha(4)beta(1) integrin (VLA-4) and CD4 or CD8 is necessary to induce maximal Erk1/2 phosphorylation and cytokine production in human T cells. *Hum Immunol*. 2009 Oct 6. [Epub ahead of print] PMID: 19815047. 2010 Jan 71(1):23-8.
22. Wang Y, Li D, Jones D, Bassett R, Sale GE, Khalili J, Komanduri KV, Couriel DR, Champlin RE, Molldrem JJ, Ma Q. Blocking LFA-1 activation with lovastatin prevents graft-versus-host disease in mouse bone marrow transplantation. *Biol Blood Marrow Transplant*. 2009 Dec;15(12):1513-22. Epub 2009 Oct 7.
23. Kim TK, St John LS, Wieder ED, Khalili J, Ma Q, Komanduri KV. Human late memory CD8+ T cells have a distinct cytokine signature characterized by CC chemokine production without IL-2 production. *J Immunol*. 2009 Nov 15;183(10):6167-74. Epub 2009 Oct 19. PMID: 19841187.
24. Decker WK, Xing D, Li S, Robinson SN, Yang H, Steiner D, Komanduri KV, Shpall EJ. Th-1 polarization is regulated by dendritic cell comparison of MHC class I and class II antigens. *Blood*. 2009 Apr 30;113(18):4213-23.
25. Joseph RW, Couriel DR, Komanduri KV. Chronic graft-versus-host disease after allogeneic stem cell transplantation: challenges in prevention, science and supportive care. *J Support Oncol*. Nov-Dec 6(8): 361-72, 2008.
26. Saliba RM, Komanduri KV, Giralt S, de Souza J, Patah P, Oran B, Couriel D, Rondon G, Champlin RE, de Lima M. Leukemia burden delays lymphocyte and platelet recovery after allo-SCT for AML. *Bone Marrow Transplant*. 2009 May;43(9):685-92. Epub 2008 Nov 17.
27. Komanduri KV, GVHD therapy: let there be light! *Blood* 112(4):932-3. PMID: 18684879 Aug/2008.
28. Decker WK, Li S, Xing D, Robinson SN, Yan H, Steiner D, Komanduri KV, Bollard CM, Shpall EJ. Deficient T (H)-1 responses from TNF-alpha-matured and alpha-CD40-matured dendritic cells. *J Immunother*. 2008 Feb-Mar; 31 (2): 157-65. PMID: 18481385 (PubMed – indexed for MEDLINE).
29. de Lima M, McMannis J, Gee A, Komanduri K, Couriel D, Andersson BS, Hosing C, Khouri I, Jones R, Champlin R, Karandish S, Sadeghi T, Peled T, Grynspar F, Daniely Y, Nagler A, Shpall EJ. Transplantation of ex vivo expanded cord blood cells using the copper chelator tetraethylenepentamine: a phase I/II clinical trial. *Bone Marrow Transplant*. 2008 May;41(9):771-8. Epub 2008 Jan 21.
30. Bashoura L, Gupta S, Jain A, Couriel DR, Komanduri KV, Eapen GA, Safdar A, Broglio KR, Adachi R, Dickey BF. Inhaled corticosteroids stabilize constrictive bronchiolitis after hematopoietic stem cell transplantation. *Bone Marrow Transplant* 41(1):63-7. e-Pub 10/2007, 1/2008.
31. Komanduri KV, Gress R, Einsele H, Cooper LNJ. Lymphoid reconstruction and vaccines. *Biology of Blood and Marrow Transplant* 2007 Jan;13(1 Suppl 1):17-22. Review.
32. Komanduri KV, St John LS, de Lima M, McMannis J, Rosinski S, McNiece I, Bryan SG, Kaur I, Martin S, Wieder ED, Worth L, Cooper LJ, Petropoulos D, Molldrem JJ, Champlin RE, Shpall EJ. Delayed immune reconstitution after cord blood transplantation is characterized by impaired thymopoiesis and late memory T cell skewing. *Blood*. 110(13):4543-51. Epub 8/2007 PMID: 17671230 12/2007.
33. Komanduri KV, Evren Ozemeir, Rima M. Saliba, Richard E. Champlin, Daniel R. couriel, Sergio A. Giralt, Marcos de Lima, Issa F. Khouri, Chitra Hosing, Stephen M Kornblaur, Paolo Anderlini, Elizabeth J Shpall, Musaffar H. Qazilbash, Jeffrey J. Molldrem, Roy F. Chemaly. Risk factors associated with late cytomegalovirus reactivation after allogeneic

- stem cell transplantation for hematological malignancies. *Bone Marrow Transplantation* 40 (2):125 - 136, 7/2007.
34. Orciuolo E, Stanzani M, Canestraro M, Galimberti S, Carulli G, Lewis R, Petrini M, Komanduri KV. Effects of *Aspergillus fumigatus* gliotoxin and methylprednisolone on human neutrophils: implications for the pathogenesis of invasive aspergillosis. *Journal of Leukocyte Biology*. e-Pub 7/2007, 7/2007.
 35. Komanduri KV, Couriel D, Champlin RE. Graft-versus-host disease after allogeneic stem cell transplantation: evolving concepts and novel therapies including photopheresis. *Biol Blood Marrow Transplant* 12:1-6, 2006.
 36. Parmar S, Robinson SN, Komanduri K, St John L, Decker W, Xing D, Yang H, McMannis J, Champlin R, de Lima M, Molldrem J, Rieber A, Bonyhadi M, Berenson R, Shpall EJ. Ex vivo expanded umbilical cord blood T cells maintain naive phenotype and TCR diversity. *Cytotherapy* 8:149-57, 2006.
 37. Xing D, Decker WK, Li S, Robinson SN, Yang H, Segal H, O'Connor S, Yao X, Komanduri KV, McMannis JD, Jones RB, de Lima M, Champlin RE, Shpall EJ. AML-loaded DC generate Th1-type cellular immune responses in vitro. *Cytotherapy* 8:95-104, 2006.
 38. Decker WK, Xing D, Li S, Robinson SN, Yang H, Yao X, Segall H, McMannis JD, Komanduri KV, Champlin RE, Shpall EJ. Double loading of dendritic cell MHC class I and MHC class II with an AML antigen repertoire enhances correlates of T-cell immunity in vitro via amplification of T-cell help. *Vaccine* 24:3203-16, 4/2006.
 39. Wong R, Shahjahan M, Wang X, Thall PF, de Lima M, Khouri I, Gajewski J, Alamo J, Couriel D, Andersson BS, Donato M, Hosing C, Komanduri K, Anderlini P, Molldrem JJ, Ueno NT, Estey E, Ippoliti C, Champlin RE, Giralt S. Prognostic Factors for Outcomes of Patients with Refractory or Relapsed Acute Myelogenous Leukemia or Myelodysplastic Syndromes Undergoing Allogeneic Progenitor Cell Transplantation. *Biol Blood Marrow Transplant* 11:108-14, 2005.
 40. Lewis RE, Wiederhold NP, Chi J, Han XY, Komanduri KV, Kontoyiannis DP, Prince RA. Detection of gliotoxin in experimental and human aspergillosis. *Infect Immun* 73:635-7, 2005.
 41. Stanzani M, Orciuolo E, Lewis R, Kontoyiannis DP, Martins SL, St John LS, Komanduri KV. *Aspergillus fumigatus* suppresses the human cellular immune response via gliotoxin-mediated apoptosis of monocytes. *Blood* 105:2258-65, 3/2005.
 42. Lu S, Wieder E, Komanduri KV, Ma Q, Molldrem JJ. Vaccines in Leukemia. In: *Advances in Pharmacology*. Elsevier Inc, 243-257, 2004.
 43. Martins SL, St John LS, Champlin RE, Wieder ED, McMannis J, Molldrem JJ, Komanduri KV. Functional assessment and specific depletion of alloreactive human T cells using flow cytometry. *Blood* 104:3429-36, 12/2004.
 44. Madoff DC, Wallace MJ, Lichtiger B, Komanduri KV, Ross WA, Narvios AB, Parmley CL. Intraarterial platelet infusion for patients with intractable gastrointestinal hemorrhage and severe refractory thrombocytopenia. *J Vasc Interv Radiol* 15:393-7, 4/2004.
 45. Stanzani M, Martins SL, Saliba RM, St John LS, Bryan S, Couriel D, McMannis J, Champlin RE, Molldrem JJ, Komanduri KV. CD25 expression on donor CD4+ or CD8+ T cells is associated with an increased risk for graft-versus-host disease after HLA-identical stem cell transplantation in humans. *Blood* 103:1140-6, 2/2004.
 46. Couriel D, Caldera Humberto, Champlin RE, Komanduri KV. Acute Graft-versus-Host Disease: Pathophysiology, Clinical Manifestations and Management. *Cancer* 101:1936-46, 2004.
 47. Komanduri KV. Thymic function and allogeneic T-cell responses in stem-cell transplantation. *Cytotherapy* 4:333-42, 2002.

48. De Lima M, St John LS, Wieder ED, Lee MS, McMannis J, Karandish S, Giralt S, Beran M, Couriel D, Korbling M, Bibawi S, Champlin R, Komanduri KV. Double-chimaerism after transplantation of two human leucocyte antigen mismatched, unrelated cord blood units. *Br J Haematol* 119:773-6, 12/2002.
49. Ozdemir E, St John LS, Gillespie G, Rowland-Jones S, Champlin RE, Molldrem JJ, Komanduri KV. Cytomegalovirus reactivation following allogeneic stem cell transplantation is associated with the presence of dysfunctional antigen-specific CD8+ T cells. *Blood* 100:3690-7, 11/2002.
50. Molldrem JJ, Komanduri KV, Wieder ED. Overexpressed differentiation antigens as targets of graft-versus-leukemia reactions. *Curr Opin Hematol* 9:503-8, 2002.
51. Komanduri KV, Feinberg J, Hutchins RK, Frame RD, Schmidt DK, Viswanathan MN, Lalezari JP, McCune JM. Loss of cytomegalovirus-specific CD4+ T cell responses in human immunodeficiency virus type 1-infected patients with high CD4+ T cell counts and recurrent retinitis. *J Infect Dis* 183:1285-9, 4/2001.
52. Komanduri KV, McCune JM. The diversity of T cells. *N Engl J Med* 344:231-2, 1/2001.
53. Komanduri KV, Donahoe SM, Moretto WJ, Schmidt DK, Gillespie G, Ogg GS, Roederer M, Nixon DF, McCune JM. Direct measurement of CD4+ and CD8+ T-cell responses to CMV in HIV-1-infected subjects. *Virology* 279:459-70, 1/2001.
54. Poulin JF, Viswanathan MN, Harris JM, Komanduri KV, Wieder E, Ringuette N, Jenkins M, McCune JM, Sekaly RP. Direct evidence for thymic function in adult humans. *J Exp Med* 190:479-86, 8/1999.
55. Komanduri KV, Viswanathan MN, Wieder ED, Schmidt DK, Bredt BM, Jacobson MA, McCune JM. Restoration of cytomegalovirus-specific CD4+ T-lymphocyte responses after ganciclovir and highly active antiretroviral therapy in individuals infected with HIV-1. *Nat Med* 4:953-6, 8/1998.
56. Komanduri KV, Salha MD, Sekaly RP, McCune JM. Superantigen-mediated deletion of specific T cell receptor V beta subsets in the SCID-hu Thy/Liv mouse is induced by staphylococcal enterotoxin B, but not HIV-1. *J Immunol* 158:544-9, 1/1997.
57. Wang J, Huang M, Lee P, Komanduri KV, Sharma S, Chen G, Dubinett SM. Interleukin-8 inhibits non-small cell lung cancer proliferation: a possible role for regulation of tumor growth by autocrine and paracrine pathways. *Journal of Interferon and Cytokine Research* 16:53-60, 1996.
58. Komanduri KV, Luce JA, McGrath MS, Herndier BG, Ng VL. The natural history and molecular heterogeneity of HIV-associated primary malignant lymphomatous effusions. *J Acquir Immune Defic Syndr Hum Retrovirol* 13:215-26, 11/1996.
59. Mooradian DL, McCarthy JB, Komanduri KV, Furcht LT. Effects of transforming growth factor-beta 1 on human pulmonary adenocarcinoma cell adhesion, motility, and invasion in vitro. *J Natl Cancer Inst* 84:523-7, 4/1992.

Other Works, Publications and Abstracts

1. Purohit S, Wieder E, Prewitt J, Benjamin C, De Lima M, Komanduri K. Generation of Inducible Regulatory T Cells Is Enhanced By 5-Azacytidine. *Pediatric Blood & Cancer* 58;7:1020-1020, July 2012.
2. De Lima M, Robinson S, McMannis J, Alousi AM, Saliba RM, Munsell M, Kebriaei P, Hosing C, Parmar S, Cooper L, Shah N, Kelly SS, Rondon G, Vina MF, Maewell I, Bosque D, Bollard CM, Chen JJ, McNiece IK, Komanduri KV, Nieto Y, Jones R, Anderson BS, Popat U, Champlin RE, Simmons PJ, Shpall EJ. Mesenchymal Stem Cell (MSC) Based Cord Blood (CB) Expansion (Exp) Leads to Rapid Engraftment of Platelets and Neutrophils. *Blood* 116;21:164-164, 11/19/2010.
3. Jones M, Ross DB, Komanduri KV, Levy RB. Post-Transplant Cyclophosphamide

- Treatment Ameliorates Experimental Gvhd While Permitting Lymphopenic Expansion of Non-Host Reactive Donor T Cells. *Blood* 116;21:1538-1538, 11/19/2010
4. Zweidler-McKay P, Wieder ED, Benjamin CL, Kim TK, Fang W, Kannan S, Komanduri KV. Insights Into Immune Suppression During All Induction Therapy: Can CD4+T Cells Save The Day? *Pediatric Blood & Cancer* 54(6):816-817, 6/2010
 5. De Lima M, McMannis JD, Hosing C, Kebraei P, Robinson S, Kelly S, Silva LD, Fernandez-Vina M, Chiatton A, Bosque D, Rondon G, Giralt S, Cooper L, Chen JJ, Parmar S, Jones R, Anderson B, Worth L, Alousi A, McNiece IK, Komanduri KV, Simmons PJ, Champlin RE, Shpall EJ. Rapid Engraftment of Neutrophils and Platelets with Mesenchymal Stem Cell Based Cord Blood (CB) Expansion (EXP). *Blood* 22:1318-1318, 11/2009.
 6. De Lima M, McNiece I, McMannis J, Hosing C, Kebraei P, Komanduri K, Worth L, Staba S, Cooper L, Petropoulos D, Lee D, Jones R, Nieto Y, Anderson B, Korbling M, Alousi A, Qazilbash M, Popat U, Khouri I, Bollard C, Leen A, Rondon G, Molldrem J, Champlin R, Simmons P, Shpall E. Double Cord Blood Transplantation (COT) With Ex-Vivo Expansion (EXP) Of One Unit Utilizing A Mesenchymal Stromal Cell (MSC) Platform. *Biology Of Blood And Marrow Transplantation* 15(2):47-48, 2/2009.
 7. Saliba RM, Komanduri KV, Koca E, Alousi AM, Giralt S, Anderson BS, Zhang W, Rondon G, Neumann J, Popat UR, Kebraei P, De Lima M, Champlin RE. High Rate Of De Novo Chronic Graft-Versus-Host (CGVHD) Following Busulfan-Fludarabine Conditioning And Allogeneic Stem Cell Transplantation From A Matched-Sibling Donor (MSD) For AML/MDS. *Biology Of Blood And Marrow Transplantation* 15(2):122-122, 2/2009.
 8. Saliba RM, Couriel D, Komanduri K, Patah P, Westin J, Giralt S, Cooper L, Petropoulos D, Worth L, Safdar A, Champlin RE, Shpall EJ, De lima M. Incidence And Risk Factors For Chronic Graft-Versus-Host Disease (cGVHD) After Cord Blood Transplantation. *Biology Of Blood And Marrow* 14(2) 132-133, 2/2008.
 9. De Lima M, de Padua Silva L, Giralt S, Komanduri K, Andersson BS, Hosing C, Qazilbash M, Shpall E, Thall P, Zhang W, McCormick G, Wang X, Popat U, Soriano A, Alousi A, Champlin R, Garcia-Manero G. Maintenance Therapy with Low-Dose Azacitidine (AZA) after Allogeneic Hematopoietic Stem Cell Transplantation (HSCT) for Relapsed or Refractory AML or MDS: A Dose and Schedule Finding Study. *ASH Annual Meeting Abstracts*. 2008;112:1134-.
 10. De Lima M, McMannis JD, Saliba R, Worth L, Kebraei P, Popat U, Qazilbash M, Jones R, Giralt S, de Padua Silva L, Cooper L, Petropoulos D, Lee D, Kelly S, Thall P, Robinson S, Khouri I, Hosing C, Korbling M, Alousi A, Rondon G, Andersson BS, Nieto Y, Ciurea S, Komanduri K, Champlin RE, Shpall E. Double Cord Blood Transplantation (CBT) with and without Ex-Vivo Expansion (EXP): A Randomized, Controlled Study. *ASH Annual Meeting Abstracts*. 2008;112:154-.
 11. Joseph RW, Jr., Kim TK, John LS, Khalili J, Popat UR, Champlin RE, Molldrem JJ, Wieder E, Komanduri K. Demonstration of a Direct Immunomodulatory Role for Vitamin D in Human T Cells Using Flow Cytometry. *ASH Annual Meeting Abstracts*. 2008;112:2577-
 12. Joseph RW, Jr., Komanduri KV, Saliba RM, Alousi A, Giralt S, Rondon G, Neumann J, Trevino C, Couriel DR, Champlin R, Popat U. High Prevalence of Vitamin D Deficiency in Allogeneic Stem Cell Transplant Recipients. *ASH Annual Meeting Abstracts*. 2008;112:2138.
 13. Khalili JS, Saliba RM, John LS, Alousi A, Wieder ED, De Lima M, Champlin R, Molldrem JJ, Shpall EJ, McMannis J, Komanduri KV. Regulatory and Naive T Cells in Unmanipulated Donor Grafts Are Not Associated with Acute Graft Vs Host Disease in Matched Sibling Transplants for AML. *ASH Annual Meeting Abstracts*. 2008;112:719-.

14. Kim TK, Billard MJ, Wieder ED, McIntyre BW, Komanduri KV. Targeting of alpha4beta1 Integrin and CD4/CD8 on Human T Cells, in Addition to CD3 and CD28, Induces Maximal Activation, as Assessed by Single-Cell Analysis of MAP Kinase Pathway Activation and Cytokine Production. *ASH Annual Meeting Abstracts*. 2008;112:1538-.
15. Saliba RM, Komanduri KV, Koca E, Alousi AM, Giralt S, Andersson BS, Zhang W, Rondon G, Popat UR, Kebriaei P, de Lima M, Champlin RE. Donor Type Impacts the Incidence of Severe Acute but Not Chronic Graft- Versus-Host Disease (GVHD) after Reduced Toxicity Conditioning and Allogeneic Stem Cell Transplantation (ASCT) for Treatment of AML/MDS. *ASH Annual Meeting Abstracts*. 2008;112:2227-.
16. De Lima M, McMannis J, Komanduri KV, Worth L, Karandish S, Jones R, Giralt S, Cooper L, Padua L, Patah P, Petropoulos D, Thall P, Zhang W, Qiao W, Robinson S, Qureshi S, Khouri I, Hosing C, Alousi A, Rondon G, Andersson B.S., Champlin R, and Shpall E.J. Randomized Study of Double Cord Blood Transplantation (CBT) with Versus without Ex-Vivo Expansion (EXP). *Blood* 110, 12/2007.
17. Qazilbash Q, Wieder E, Thall P, Wang X, Rios R, Lu S, Kant S, Giralt S, Estey E, Cortes J, Komanduri KV, Champlin R, Molldrem JJ. PR1 Vaccine Elicited Immunological Response after Hematopoietic Stem Cell Transplantation Is Associated with Better Clinical Response and Event-Free Survival. *Blood* 110, 12/2007.
18. Qazilbash M, Wieder E, Thall P, Wang X, Rios R, Lu S, Kant S, Giralt S, Estey E, Cortes J, Komanduri KV, Champlin R, Molldrem JJ. PR1 Peptide Vaccine-Induced Immune Response Is Associated with Better Event-Free Survival in Patients with Myeloid Leukemia. *Blood* 110, 12/2007.
19. Decker W, Li S, Xing D, Robinson S, Yang H, Steiner D, Bollard C, Komanduri K, and Shpall EJ. Deficient Th-1 Responses from TNF{alpha}-Matured Dendritic Cells. *Blood* 110, 12/2007.
20. Saliba RM, Komanduri K, Giralt S, de Souza J, Patah PA, Oran B, Rondon G, Couriel DP, Champlin R, de Lima M. Correlates and outcome of absolute lymphocyte count (ALC) on day 30 post allogeneic stem cell transplantation (SCT) for treatment of AML. *Biology of Blood and Marrow Transplantation* 13 (2):98-98 2007.
21. Wang Y, Li D, Jones D, Bassett R, Sale GE, Khalili J, Komanduri KV, Couriel DP, Champlin RE, Molldrem JJ, Ma Q. Blocking LFA-activation with lovastatin graft-versus-host disease in mouse bone marrow transplantation. *Biology of Blood and Marrow Transplantation* 13(2):112-113 2007.
22. Kim TK, John LS, Wieder ED, Molldrem JJ, Komanduri KV. Higher-order cytokine flow cytometry reveals distinct functional signatures of maturation subsets of CD4+ and CD8+ T cells. *Biology of Blood and Marrow Transplantation* 13 (2):126-127 2007.
23. Komanduri KV, John LS, Bryan S, Martin S, McMannis JD, Molldrem JJ, Champlin RE, Cooper LJ, Worth L, Petropoulos D, Hosing C, Couriel DM, de Lima M, Shpall EJ. Delayed immune recovery after umbilical cord blood transplantation (UCBT) is characterized by thymic regeneration failure. *Biology of Blood and Marrow Transplantation* 13 (11):1400-1400 2007.
24. de Lima M, Padua L, Giralt S, Hosini C, Komanduri K, Qazilbash M, Shpall EJ, Thall P, Qureshi S, McCormick G, Tong W, Popat U, Soriano A, Champlin R, Garcia-Manero G. A dose and schedule finding study of maintenance therapy with low-dose 5-azacitidine (AZA) after allogeneic hematopoietic stem cell transplantation (HSCT) for high-risk AML or MDS. *Blood* 110(11):884A-885A 2007
25. Komanduri KV, Kim TK, Wieder ED, and St. John L. Cytokine Production Signatures Are Intrinsically Associated with Human T Cell Maturation Stages. *Blood* 110, 12/2007.
26. Komanduri KV, Evren Ozdmeir, Elizabeth J Shpall, Martins S, Lekakis K, Wieder E, Molldrem J, De Lima M, McMannis J, St. John L. Functional T cell immunity in allogeneic stem cell transplantation. *MASIR 2006, Santorini, Greece, 2006.*

27. Komanduri KV. Maintenance Therapy with 5-Azacytidine after allogeneic stem cell transplantation for acute myelogenous leukemia and high-risk myelodysplastic syndrome: a dose and schedule finding study. *Blood* 108:1048a, 11/2006.
28. Komanduri KV, Lisa St. John, Susan Bryan, Sean Martin, Elizabeth J. Shpall, Ricard E. Champlin, Jeffrey J. Molldrem, Laurence J. Cooper, Laura Worth, Demetrios Petropoulos, Danel R. Couriel, Marcos de Lima. Delayed immune recovery after umbilical cord blood transplantation is characterized by thymic regeneration failure. *Blood* 108:96a, 11/2006.
29. Komanduri KV, Michael Thomas, Lisa St. John, Dongxia Xing, William Decker, Simon Robinson, Hong Yang, Jeffrey J Molldrem, Richard E. Champlin, John D. McMannis, Elizabeth Shpall. Characterization of optimal T cell/dendritic cell co-culture conditions for ex vivo expansion of antigen specific human T cells. *Blood* 108:1044a, 11/2006.
30. Komanduri KV, Elizabeth J. Shpall, Ricard E. Champlin, Marcos de Lima, Poliana A. Patah, Rima Saliba, Daniel Couriel, Kawah Chan, laura Worth, Sergio Giralt, Partow Kebriae, Issa Khouri, Laurence Cooper, Marcelo Fernandez-Vina, Pedro cano, Demetrios Petropoulos, John McMannis, chitra Hosing, Gabriela Rondon. Donor-recipient host-versus-graft HLA mismatches and outcome of cord blood transplants. *Blood* 108:133a, 10/2006.
31. Qazilbash MH, Rios R, Thall PF, Wang X, Wieder E, Lu S, Kant S, Giralt SA, Estey EH, Cortes J, Champlin RE, Komanduri K, Molldrem JJ. PR1 vaccine after hematopoietic stem cell transplantation. *Biology Of Blood And Marrow Transplantation* 12(2):16-16, 2/2006.
32. Rieber AG, Parmar S, Robinson SM, Decker W, Xing D, Komanduri KV, Bollard C, McMannis JD, Yang H, Berenson R, Bonyhadi M, Shpall EJ. Optimization of expansion of cord blood T cells with anti CD3/anti-CD28 coated beads. *Biology Of Blood And Marrow Transplantation* 12(2):81-82, 2/2006.
33. Saliba RM, Oran B, Giralt S, Komanduri K, Carrasco-Yalan A, Ghosh S, Champlin R, De lima M. Disease status at transplant impacts lymphocyte and platelet recovery after allogeneic peripheral blood stem cell transplant (PBSCT) for patients with AML/MDS. *Biology Of Blood And Marrow Transplantation* 12(2):42-42, 2/2006.
34. Komanduri KV, William K. Decker, Dongxia Xing, Sugang Li, Richard E. Champlin, John D. McMannis, Marocs de Lima, Elizabeth J. Shpall. Superior acute myeloid leukemia-specific T cell responses using dendritic cells pulsed with apoptotic bodies vs. tumor lysates or mRNA. *Blood* 106:295, 11/2005.
35. Komanduri KV, Lisa St. John, Elizabeth J. Shpall, Ricard E. Champlin, Jeffrey J. Molldrem, Evren Ozdemir. CMV reactivation after allogeneic stem cell transplantation is associated with a preponderance of circulating late-stage CMV-specific CD8+ T Cells. *Blood* 106:3250, 11/2005.
36. Komanduri KV, William K. Decker, Dongxia Xing, Sugang Li, Richard E. Champlin, John D. McMannis, Marocs de Lima, Elizabeth J. Shpall. Cell Autonomous Upregulation of dendritic cell immunocompetence is antigen-dependent. *Blood* 106:2230, 11/2005.
37. Qazilbash MH, Wieder E, Rios R, Lu S, Kant S, Giralt S, Estey EH, Thall P, de Lima M, Couriel D, Champlin RE, Komanduri KV, Molldrem J. Vaccination with the PR1 Leukemia-Associated Antigen Can Induce Complete Remission in Patients with Myeloid Leukemia. *Novel Agents and Immunotherapy. Blood* 104, 11/2004.
38. Shpall E, de Lima M, Chan K, Champlin RE, Gee A, Thall P, Komanduri KV, Couriel D, Hosing C, Andersson B, Jones R, Giralt S, Karandish S, Sadeghi T, Muriera B, O_Connor S, Wooten L, Wang X, Robinson S, Fu P, Del Angel M, Wilson J, Peled T, Grynspan F, McMannis J. Transplantation of Cord Blood Expanded Ex Vivo with Copper Chelator Technology. *Blood* 104, 11/2004.

39. Martins SLR, StJohn LS, Komanduri KV. Naive and memory CD4+ T cells proliferate and contribute to cytokine production in the human alloreactive T cell response in vitro. *Blood* 104, 11/2004.
40. Ozdemir E, Saliba R, Champlin RE, Komanduri KV. A model to predict risk for late cytomegalovirus reactivation after allogeneic stem cell transplantation for hematological malignancies. *Blood* 104, 11/2004.
41. Stanzani M, Martins SL, StJohn LS, Saliba RM, Bryan SG, Couriel DR, Champlin RE, Molldrem JJ, Komanduri KV. CD25 expression on donor T cells is associated with an increased risk of graft-versus-host disease after allogeneic stem cell transplantation. International Society for Cellular Therapy Annual Meeting Phoenix, 2003.
42. Martins SLR Komanduri KV. Development of a novel flow cytometric assay to assess the phenotype and function of alloreactive human T cells. *Blood* 102:5344 (#Part 2), 11/2003.
43. Komanduri KV, Dorsam S, StJohn LS, Wieder ED, Champlin RE, Molldrem JJ, McCormick F, Haqq C. Genomic expression analysis of activated cytomegalovirus-specific human CD4+ T cells. *Blood* 100:670a (#2638), 2002.
44. Komanduri KV, Ozdemir E, Gillespie GM, StJohn LS, Rowland-Jones , Richard EChamplin, Jeffrey JMolldrem. Definitive evidence for an immunodominance hierarchy in the human CD8+ T cell response to cytomegalovirus. *Blood* 100:410b (#5209), 2002.
45. Ozdemir E, StJohn LS, Gillespie G, Rowland-Jones S, Champlin RE, Molldrem JJ, Komanduri KV. Cytomegalovirus reactivation following allogeneic stem cell transplantation is associated with the presence of dysfunctional viral-specific CD8+ T cells. International Society for Cellular Therapy Annual Meeting Barcelona, 2002.
46. de Lima M, Komanduri KV, StJohn LS, Wieder E, Lee M, McMannis J, Karandish S, Giralt S, Beran M, Couriel D, Korbling M, Martin T, Andersson B, Bibawi S, Westmoreland M, Hosing C, Champlin R. Using two mismatched unrelated donor cord blood units for transplantation: Analysis of chimerism and immune reconstitution. *Blood* 98:382b (#5308), 2001.
47. Hosing C, de Lima M, Phan A, Martin T, Giralt S, Couriel D, Hicks K, Ippoliti C, Donato M, Komanduri KV, Champlin R. Hemorrhagic cystitis after mismatched unrelated cord blood transplantation for adults. *Blood* 98:383b (#5313), 2001.
48. Ozdemir E, StJohn LS, Gillespie G, Rowland-Jones S, Champlin RE, Molldrem JJ, Komanduri KV. Cytomegalovirus-specific CD8+ T cell recovery, as measured by HLA-peptide tetramer staining, is insufficient to control viremia following allogeneic stem cell transplantation. *Blood* 98:389a (#1638), 2001.
49. Komanduri KV, McCune JM. The diversity of T cells. *New England Journal of Medicine* 344, 2001
50. Komanduri KV, Feinburg J, Hutchins R. Persistent deficits in cytomegalovirus-specific CD4+ T-cell responses in HIV-1-infected subjects with relapsing CMV retinitis following successful highly active antiretroviral therapy. Seventh Conference on Retroviruses and Opportunistic Infections, San Francisco, CA, 2000.
51. Harris JM, Jenkins M, Schmidt D, Komanduri KV, Halvorsen R, McCune JM. Correlation between thymic mass and TRECs in age-matched HIV-1-infected people. Midwinter Immunology Conference, Asilomar, CA, 2000.
52. De Lima M, Padua L, Giralt S, Hosing C, Komanduri K, Qazilbash M, Shpall E.J., Thall P, Qureshi S, McCormick G, Tong W, Popat U, Soriano A, Champlin R, Garcia-Manero G. A Dose and Schedule Finding Study of Maintenance Therapy with Low-Dose 5-Azacitidine (AZA) after Allogeneic Hematopoietic Stem Cell Transplantation (HSCT) for High-Risk AML or MDS. *Blood* 110, 12/2000.

53. Stanzani M, Lewis R, Martins SLR, Kontoyiannis D, Komanduri KV. Aspergillus fumigatus subverts the human T cell immune response via gliotoxin-mediated effects on antigen presentation. Blood 102:3615 (#Part 1), 11/2000.

Other works accepted for publication:

N/A

V. PROFESSIONAL

Grants and Contracts

Funded

Co-Investigator, Immune Mechanisms In Ocular Graft Versus Host Disease, R. Levy and V. Perez (co-PIs). National Eye Institute 1R01EY024484-01, 5/1/2014-4/30/2019 (\$399,999/year direct costs).

Principal Investigator, Selective Inhibition of GVHD for Allogeneic Transplantation for Cancer, The Florida Department of Health Bankhead Coley Cancer Research Program 4BB16, 10/1/13-9/30/2014, \$400,000 (\$200,000/year).

Principal Investigator, Merck & Co, Inc., Multicenter Trial to Study the Safety, Tolerability, Efficacy and Immunogenicity of V212 in Recipients of Autologous Hematopoietic Cell Transplants (HCTs), 2011-2014 (3 years).

Principal Investigator, Therakos, Inc., Extracorporeal Photopheresis Therapy (EPC) with UVADEX on Patients with Moderate to Severe Chronic Graft-versus-Host Disease (cGvHD), 2011-2013 (2 years).

Sub Investigator, funded by NIH Lead Group BMT-CTN, Phase II Trial of Non-Myeloablative Allogeneic Hematopoietic Cell Transplantation for Patients with Relapsed Follicular Non-Hodgkin's Lymphoma Beyond First Response, 2011-2013 (2 years).

Sub Investigator, funded by NIH Lead Group BMT-CTN enrolling through ECOG, Single Autologous Transplant with or without RVD Consolidation versus Tandem Transplant and Maintenance Therapy for Patients with Multiple Myeloma, 2011-2014 (3 years).

Principal Investigator, Bankhead Coley Research Program, Improving Cord Blood Transplantation Via Expansion of Myeloid and Regulatory T Cells, 7/1/10-6/30/15 (\$1,200,000/5 years).

Mentor, K23 Award to Alberto Montero, M.D., Enhancing T-Cell Responses with the Glutathione Mimetic NOV-002 in Breast Cancer 1K23CA148893-01, The studies proposed in this grant application will evaluate the mechanism by which redox modulation enhances anti-tumor T-cell effect in preclinical models and in the context of a phase II clinical trial, 04/01/10-03/31/15.

Pending

Grants with submissions planned July 2013:

Co-Investigator, RO1 Application, Treatment strategies for ocular GVHD, R. Levy and V. Perez (co-PIs). Submitted, Scored 7 percentile

Completed

Principal Investigator, T Cell Immune Reconstitution after Stem Cell Transplantation, NIH 7RO1CA109326, NIH, 9/28/2000–6/30/2011, \$1,100,000 (\$177,750/year)

Principal Investigator-MDACC, Immune reconstitution after cord blood transplantation, 3RO1HL091749-01, NIH/NCI, 2/1/08-1/31/12 (\$250,000/year)

Principal Investigator, Immune Reconstruction Following the use of Vidaza after Allogeneic Stem Cell Transplantation for High-Risk Acute Leukemia, Pharmion, 9/1/09-8/31/10

Principal Investigator, Graft engineering to minimize GVHD after stem cell transplantation, Leukemia & Lymphoma Society, 10/1/2005–9/30/2008, \$600,000 (\$180,000/year)

Co-Director, Therapies for Chronic Myelogenous Leukemia, NIH PO1 CA049639, NIH, PI - R. Champlin, M.D, 10/1/2002–9/30/2006, \$600,000 (\$150,000/year)

Co-Investigator, Hematopoietic Progenitor Cells, NIH 5 R01 CA061508-12, NIH, PI - Elizabeth Shpall, 4/1/2003–3/31/2008, \$225,000

Principal Investigator, Thymic function in Hematopoietic Stem Cell Transplantation, LS00-305-1, Leukemia and Lymphoma Society, 9/1/2000–8/31/2003, \$324,000 (\$108,000/year)

Principal Investigator, Isolation and Expansion of Virus-Specific T Cells for Adoptive Immunotherapy, Gillson-Longenbaugh Foundation, 6/1/2001–5/31/2005, \$195,000

Principal Investigator, Strategies to Characterize and Expand Aspergillus-specific T Cells in Stem Cell Transplant Recipients, Goodwin Funds Grant, 10/1/2002–9/30/2003, \$200,000 (\$100,000/year)

Primary Mentor, Development of novel immunotherapeutic strategies for Epstein-Barr Virus associated malignancies, ASCO Young Investigator Award, PI - Maricer Escalon, M.D, 7/1/2004–6/30/2005, \$35,000

Project PI and Immunology Core Director, Viral Immunology and Oncology, M.D. Anderson Multidisciplinary Research Program, PI - J Sastry, Ph.D, 1/1/2005–12/31/2007, \$250,000

Principal Investigator, Selective Depletion of Alloreactive T Cells, M.D. Anderson Institutional Research Grant Program, 8/1/2005–7/31/2006, \$50,000

Project PI, Post-Transplant Constrictive Bronchiolitis, M.D. Anderson Multidisciplinary Research Program, PI - B. Dickey, 8/1/2005–7/31/2007

Principal Investigator, Immune Reconstitution Following the Use of Vidaza after Allogeneic Stem Cell Transplantation for High-Risk Acute Leukemia, Pharmion, 9/1/2005–8/30/2007, \$60,000 (\$30,000/year)

Editorial responsibilities

Editorial Board, American Cancer Society Cancer Profilers, Leukemia/Lymphoma, 2000–2010.

Associate Editor, 2006 CIBMTR/ASBMT Tandem Meetings Education Book, 2005.

Peer Review for Scientific Journals

1998-present:

Ad hoc reviewer: Blood, Nature Medicine, J Immunology, J Exp Medicine, J Infectious Diseases, J Clinical Investigation, Biology of Blood & Marrow Transplantation, Bone Marrow Transplantation, British Journal of Cancer, Clinical Cancer Research, BMC Immunology, Clinical Immunology, International Immunology, J AIDS, Clinical Infectious Diseases, Clinical Experimental Immunology, Cytometry, Transplant Immunology, Transplantation.

NIH Study Section Responsibilities

Full Member, Transplantation, Tolerance and Tumor Immunology Study Section, 2010-2014

Member, Special Emphasis Panel for the National Cancer Institute, 2013 Loan Repayment Program, 2013

Ad Hoc Member, NIAID Allergy, Immunology and Transplantation [AITC] Study Section (P01 Review and Training Grant Reviews), 2013

Ad hoc member, Transplantation, Tolerance and Tumor Immunology [TTT] Study Section, 2009

Member, Special Emphasis Panel for the National Cancer Institute, 2011 Loan Repayment Program, 2011

Ad hoc member, Transformative RO1, Tolerance and Tumor Immunology Study Section, 2011

Other Study Sections

Kay Kendall Research Fund, 2002

National Blood Service of the United Kingdom Grants Program, 2004

Pediatric Cancer Research Foundation, 2010

Sylvester Investigator Initiated Trials (IIT) Grant, 2011

American Society of Hematology Scholar Awards Study Section, 2012

NYSTEM (New York Stem Cell Science Program) Consortium Awards Study Section, 2012

University of Miami Miller School of Medicine, CTSI Career Development Awards Study Section, 2013

Professional and Scientific Leadership Positions (National)

Member, Medical Student Advisory Group to President of National Board of Medical Examiners, Philadelphia, Pennsylvania, 1989–1991

Member, National Administrative Board, Association of American Medical Colleges
Organization of Student Representatives, Washington D.C., 1989–1991

American Society of Blood and Marrow Transplantation, Reimbursement Committee,
2008-present

American Society of Blood and Marrow Transplantation, Education Committee, 3/2010-
present (Founding Member)

National Marrow Donor Program Systems Capacity Initiative, Financial Working Group,
3/2010-9/2012

American Society of Hematology Scientific Committee on Immunology and Host
Defense, 1/2012-present

National Marrow Donor Program Advisory Group on Financial Barriers to Transplant,
9/2012-present

Scientific Organizing Committee, 2014 ASBMT/CIBMTR Tandem Transplant Meetings,
2/2013-present

American Society of Hematology, Scientific Committee Vice-Chair, 2014-present

American Society for Blood and Marrow Transplantation, Tandem BMT Scientific
Planning Committee Chair, 2015

Professional Memberships/Activities

Professional Society Activities, with Offices Held

National and International

International AIDS Society, Member, 1999–2008

International Society for Analytical Cytometry, Member, 2000–2008

American Society for Blood and Marrow Transplantation, Member, 2001–present

American Society of Hematology, Member, 2002–present

International Society for Cellular Therapy, Member, 2002–present

Texas Medical Association, Member, 2002–2008

American Society of Clinical Investigation, 2009-present

Honors And Awards

National Merit Scholar, 1983–1987

President, University of Minnesota Medical School Class of 1991, 1988–1989

Minnesota Medical Foundation Student Research Grant, 1990

President, University of Minnesota Medical Student Council, 1990

Merck Foundation Graduating Medical Student Award, 1991

Minnesota Medical Foundation Outstanding Student Award, 1991

University of Minnesota Presidents Student Leadership & Service Award, 1991

UCLA Solomon Scholar Research Award, 1994

UCSF Amgen Research Fellowship in Medical Oncology, 1996

University of California AIDS Research Program Fellowship, 1997–1999

M.D. Anderson Cancer Center Division of Cancer Medicine Leadership in Education Award, 2008

Elected, American Society of Clinical Investigation, 2009

Kalish Family Endowed Chair in Stem Cell Transplantation, 5/2010- Present

Best Doctors in America, 2013

Best Doctors in America, 2014

Post-Doctoral Fellowships

Postdoctoral Fellowship, Laboratory of Joseph (Mike) McCune, M.D., Ph.D., Gladstone Institutes of Virology & Immunology, UCSF

Other Professional Activities

Consultantships

Vical, Inc., 1/2004–1/2005

Conferences And Symposia

Invited Presentations at National or International Conferences

Interlink Medical Roundtable Web Presentation, 02/2014

Invited Plenary Speaker, Argentinean Society of Hematology meeting, Advances in Myeloma, Argentina, 10/2013.

Invited Plenary Speaker, International Society for Cellular Therapy, Latin America Regional Meeting, Lima Peru, 10/20/13 (Scheduled)

Invited Plenary Speaker, National Marrow Donor Program Blood and Marrow Stem Cell Transplant: A Forum on Quality, Transparency, Cost and Value, Chicago, IL, 7/2013 (Scheduled)

Meet-the-Scientist: Immune Reconstitution After Allogeneic Transplantation, American Society of Hematology Annual Meeting, Atlanta, GA, 12/2012.

Emerging Strategies in Bone Marrow and Hematopoietic Cell Transplantation, 2011 CTS-IXA Joint Congress, Miami, Florida, 10/24/2011.

Immunologic Reconstitution, Advance Practice Professionals, American Society for Blood and Marrow Transplantation Annual Meeting, Honolulu, Hawaii, 02/18/2011.

Invited Plenary Speaker, 6th Annual Chicago Supportive Oncology Conference, Chicago, IL 10/2010.

Invited Plenary Speaker, Interdisciplinary Stem Cell Institute, Miami, FL, 5/2010.

Chair, pre-conference session on Flow Cytometry, International Society for Cellular Therapy. Miami, Florida, 5/2008.

Cord Blood Transplantation Plenary Session, SCT. International Society for Cellular Therapy. Miami, Florida, 5/2008.

Immune Reconstruction Plenary Session, Annual Meeting of American Association of Blood and Marrow Transplantation, Keystone, Colorado, 2/2007.

Dendritic Cell Biology, Annual Meeting of American Association of Blood Banks (AABB), Miami, Florida, 12/2006.

Invited Plenary Speaker, Chicago Supportive Care Oncology Conference, Chicago, Illinois, 9/2006.

Invited Plenary Speaker, 2nd Meeting on Measurement of Antigen-specific Immune Responses (MASIR), Santorini, Greece, 6/2006.

T cell regulation, 56th Annual Symposium on Fundamental Cancer Research, Houston, Texas, 10/1/2003.

Immunotherapy, Plenary Presentation, CMV-specific Immune Reconstitution and Immunodominance, International Society for Cellular Therapy Annual Meeting, Phoenix, Arizona, 5/1/2003.

Adoptive Immunotherapy with CMV-specific T Cells, Miltenyi Biotec, Corporate Symposium, International Society for Cellular Therapy Annual Meeting, Phoenix, Arizona, 5/1/2003.

Cytomegalovirus Reactivation Following Allogeneic Stem Cell Transplantation is Associated with the Presence of Dysfunctional Viral-Specific CD8+T Cells, Immunotherapy Session, International Society for Cellular Therapy Annual Meeting, Barcelona, Spain, 5/1/2002.

Flow Cytometric Evaluation of Antigen-Specific T Cell Expansion for Immunotherapy, Immunotherapy Workshop at the International Society for Cellular Therapy Annual Meeting, Barcelona, Spain, 5/1/2002.

Antigen-Specific Cellular Immunotherapy for AML, ASBMT/IBMTR, 2002 Tandem Meetings, Orlando, Florida, 2/1/2002.

T Cell Homeostasis in HIV Disease, Plenary Presentation, Immune Reconstitution: Facts and Challenges, Institute for Clinical Research, Montreal, Quebec, 10/1/1999.

T Cell Production in HIV Disease, Plenary Presentation, Second Annual Meeting, Research Institute for Human and Genetic Therapy, Washington, DC, 4/1/1999.

Correlation of de novo T cell production, Thymic Mass and Peripheral Blood Immunophenotyping in Healthy and HIV-1-infected Individuals, Second Annual Conference on AIDS Research, San Diego, California, 2/1/1999.

Using Flow Cytometry to Evaluate Antigen-Specific T Cell Responses to CMV, Second Symposium on CMV Retinitis, Yosemite, California, 2/1/1999.

Assessing Antigen-Specific Immune Function by Flow Cytometry, San Francisco AIDS Community Consortium Grand Rounds, San Francisco, California, 1/1/1998.

SEB, but not HIV-1, Induces Superantigen-Mediated Deletions in the SCID-hu Thy/Liv Mouse, IX Annual Conference of the Jacques Cartier Center: Pathogenesis of AIDS, Quebec, Canada, 10/1/1996.

How to Build a Student-Run Peer Support Network, Education Session Presentation, Association of American Medical Colleges Annual Meeting, San Francisco, California, 10/1/1990.

Seminar Invitations from Other Institutions

University Hospital Case Medical Center. Division of Hematology and Oncology (May, 2013)

Case Western Reserve University. Division of Hematologic Malignancies (Fall, 2013)

Department of Health, Peru (September, 2013)

Evolving clinical and laboratory strategies in allogeneic stem cell transplantation. Rush University Hematology/Oncology Grand Rounds, Chicago, Illinois, 4/2013

T Cells and the Evolving Art of Allogeneic Stem Cell Transplantation, University of Illinois at Chicago, Hematology/Oncology Grand Rounds, Chicago, Illinois, 4/20/2012.

Improving T cell Immune reconstitution after allogeneic Stem Cell Transplantation, University of Miami Sylvester Cancer Center, Miami, Florida, 10/2006.

Characterizing and improving T cell reconstitution after stem cell transplantation, University of Michigan Cancer Center, Ann Arbor, Michigan, 3/1/2005.

T Cell Homeostasis: Lessons Learned from HIV-1 Disease, UCSF Hematology/Oncology Grand Rounds, San Francisco, California, 7/1/1999.

Workshop on HIV Pathogenesis: The Potential for Immune Reconstitution in HIV Disease, Tenth Annual UCSF Student AIDS Forum, 10/1/1998.

Assessment of CMV-Specific CD4+ Lymphocyte Reconstitution in HIV-1-Infected Subjects, Second Annual California Statewide AIDS Research P, Santa Monica, California, 10/1/1998.

HIV, CMV and the T Cell Repertoire in Mice and Men, University of Minnesota Division of Hematology, 10/1/1998.

HIV-1 and the CD4+ T Cell Repertoire in Mice and Men, Stanford University, Division of Hematology Grand, Palo Alto, California, 5/1/1998.

Thymic Function and Immune Restoration in HIV-1 Disease, Stanford University Medical Center AIDS Clinical T, Palo Alto, California, 3/1/1998.

Antigen-Specific Responses to Cytomegalovirus in HIV-1-Infected Subjects: Assessment of Functional CD4+ Lymphocyte Responses by Flow Cytometry, University of California AIDS Research Program Ann, Los Angeles, California, 2/1/1998.

Assessment of Immune Function by Flow Cytometry, Becton-Dickinson Immunocytometry Systems, San Jose, California, 9/1/1996.

Autocrine Production of IL-8 Regulates Human Lung Cancer Growth, UCLA Solomon Scholars Research Conference, 6/1/1994.

Other Presentations at State and Local Conferences

Maternal/Child Research Forums, University of Miami, Miami, Florida, 12/11/2013

The Evolution of the Sylvester Stem Cell Transplant Program, Pap Corps President Meeting, University of Miami, Boca Raton, Florida, 09/24/2013

T Cells and the Evolving Art of Allogeneic Stem Cell Transplantation, Microbiology & Immunology Research Seminar Series, University of Miami, Miami, Florida, 11/29/2012.

The Evolution of the Sylvester Stem Cell Transplant Program, Pap Corps President Meeting, University of Miami, Del Ray Beach, Florida, 11/01/2012.

Evolving Approaches In Allogeneic Stem Cell Transplantation, Dermatology Grand Rounds, University of Miami, Miami, Florida, 10/10/2012.

T Cells and the Evolving Art of Allogeneic Stem Cell Transplantation, Research Grand Rounds, University of Miami, Miami, Florida, 9/19/2012.

Radiation Injury Treatment Network Program Overview, Miami-Dade County Health Department, Hospital Preparedness Consortium Meeting, Miami, Florida, 5/30/2012.

Stem Cell Transplant at Sylvester: Present and Future, Pap Corps President Meeting, University of Miami, Boca Raton, Florida, 4/12/2012.

Medical Response To Radiation Exposure: The Role of Hematologists, University of Miami, Hematology/Oncology Grand Rounds, Miami, Florida, 2/15/2012.

Improving Immunologic Outcomes of Allogeneic Stem Cell Transplantation, Interdisciplinary Stem Cell Institute (ISCI), Research Rounds, Miami, Florida, 6/13/2011.

T cell renewal and differentiation in the setting of allogeneic stem cell transplantation for cancer, Vaccine & Gene Therapy Institute Florida, Port St. Lucie, Florida, 1/25/2011.

Measuring Human T cell Responses: from bench to bedside, Pathology Grand Rounds, University of Miami, Miami, Florida, 1/6/2011.

Memory T cells in Cancer Immunity and Allogeneic Transplant Reconstitution Transplant Immune Reconstitution, Sylvester Grand Rounds, University of Miami, Miami, Florida, 8/13/2010.

Lymphoma/Myeloma Research Conferences, M.D. Anderson Cancer Center, Houston, Texas, 8/2006.

Improving allogeneic stem cell transplantation outcomes through graft engineering, Department of Lymphoma and Myeloma Lecture Series, MD Anderson Cancer Center, Houston, Texas, 10/1/2005.

Improving immune reconstitution after BMT through donor graft engineering, Blood and Marrow Transplantation Cell Therapy Lab Lecture Series, UT MD Anderson Cancer Center, Houston, Texas, 5/1/2005.

T cell immunity to viruses in the setting of cancer, Viral Oncology and Immunology Multidisciplinary Research Program Lecture, 5/1/2005.

BMT Immunology, Blood and Marrow Transplantation Fellows Lecture Series, UT MD Anderson Cancer Center, Houston, Texas, 4/1/2005.

Growth Hormone, Insulin-like Growth Factor I and Immune Function, Dept. of Endocrine Neoplasia Research Seminar Series, 4/1/2003.

Studies of Antigen-Specific T Cells in Human Subjects, UT MD Anderson Cancer Center, Houston, Texas, 6/1/2002.

T Cell Homeostasis in Immunodeficiency, Hematology Clinical Research Conference, UT M.D. Anderson Cancer Center, Houston, Texas, 9/1/1999.

Depletion and Reconstitution of the T Cell Repertoire in HIV-1 Infection, Department of Bone Marrow Transplantation Grand Rounds, UT M.D. Anderson Cancer Center, Houston, Texas, 11/1/1998.

VI. TEACHING

Teaching Awards Received

MD Anderson Cancer Center, Division of Cancer Medicine, Leadership in Education Award (Inaugural Recipient), 2008

Formal Teaching Responsibilities:

Training seminar, Peru's Ministry of Health/Peru's first comprehensive pediatric bone marrow transplant referral center, Lima, Peru, 09/2013

Instructor, Introduction to Laboratory Biology, Massachusetts Institute of Technology, 1985–1987

Instructor, Pathophysiology of Hematology, UCSF School of Medicine, 1996–1999

Clinical Preceptor, UCSF School of Medicine MD/PhD Program, 1997–1999

Lecturer, Molecular Principles of Virology, University of Texas Houston Graduate School of Biological Sciences, Course Number: GS04 0043, 2004–2005.

Evolving Indications for Stem Cell Transplant, Fellows Core Curriculum, University of Miami, Miami, Florida, 1/27/2011.

SCT: History and Evolution of Conditioning Regimens, Hematology/Oncology Fellows Core Curriculum Lectures, University of Miami, Miami, Florida, 11/8/2011.

Introduction to Stem Cell Transplantation, Internal Medicine Lecture Series, University of Miami, Miami, Florida, 2/20/2012.

Stem Cell Transplantation: Supportive Care, Internal Medicine Lecture Series, University of Miami, Miami, Florida, 4/10/2012.

Thesis and Dissertation Advising/Post-doctoral student supervision

Supervisory Teaching

Advisory Committees

Member, G.S.B.S., Jahan Khalili, 2006–2008

Member, Advisory committee, G.S.B.S, Tae Kon Kim, 2006–2008

Member, Advisory committee, G.S.B.S., Yufeng Li, 2007–2008

Chair, Sheila and David Fuente Graduate Program in Cancer Biology, Robert G. Newman, 2008-present

Chair, Microbiology and Immunology, Duncan Ross, 2008-2012

Member, Advisory Committee, Cancer Biology Graduate Program, Santhosh Sivajothi, 2009-2013

Member, Progress Committee, Dept. Microbiology & Immunology, Xiaomei Yuan, 2012-present.

Supervisory Committees

Shreya Kant, 4/2002–10/2005

Direct Supervision

MD/MBA Student

University of Miami, Lauren Siliati, 5/2010-5/2011

Doctoral Nursing Student

University of Colorado, Maritza Alencar, ARNP, March 2013-present

Life Sciences Graduate Students

University of Texas G.S.B.S., Jahan Khalili, 6/2006–2008

University of Texas G.S.B.S., Tae Kon Kim, 6/2006–2010 (Ph.D. awarded May 2010)

Postdoctoral Research Fellows

Evren Ozdemir, M.D, 6/2001–7/2002

Marta Stanzani, M.D, 6/2002–3/2004

Sergio Martins, M.D., Ph.D, 9/2002–12/2003

Maricer Escalon, M.D, 1/2004–1/2005

Enrico Orciuolo, M.D, 2/2004–1/2005

Lazaros Lekakis, M.D. 7/2006-6/2006

Richard Joseph, M.D., 7/2007-6/2008

Ulas Bayraktar, M.D. 1/2009-6/2010

Tae Kon Kim, M.D, 5/2010-5/2012

Takero Shindo, M.D., Ph.D., 7/2010-7/2012

Saroj Purohit, M.D., 2/2011-5/2012

VII. SERVICE

University Committee and Administrative Responsibilities

University of Miami:

Member, Sheila and David Fuente Graduate Program in Cancer Biology (CAB), 7/2008-Present.

Chair, Leukemia Search Committee, 4/2009-2011.

Member, Sylvester Comprehensive Cancer Center Scientific Steering Committee, 6/2010-Present.

Co-Director, Sylvester Comprehensive Cancer Center Tumor Immunology Program, 6/2010-Present.

Member, University of Miami Hospital & Clinics Medical Executive Committee, 7/2010-Present.

Member, Sylvester Comprehensive Cancer Center, Clinical Research Services Advisory Committee, 8/2010-Present.

Director, Sylvester Cancer Center Stem Cell Transplant Program Quality Committee, 10/2009-Present.

Member, University of Miami Miller School of Medicine Appointment, Promotion and Tenure Committee, 2011-present

Member, Sylvester Comprehensive Cancer Center (Sylvester) Executive Committee, 08/2012-Present.

Member, Sylvester Recruitment Oversight Committee, 5/2013-Present.

University of Texas MD Anderson Cancer Center:

Internal Communications Project Team, Member, 1/2000–1/2001

Infectious Diseases Faculty Search Committee, Member, 1/2001–1/2002

Internal Communications Advisory Committee, Member, 1/2001

Graduate Medical Education Committee, Member, 1/2001

GMEC Budget Subcommittee, Member, 1/2001

Medical Oncology Fellowship Steering Committee, Member, 1/2001

Department of Veterinary Sciences, Translational Virologist Search Committee, Member, 1/2002

Department of Pulmonary Medicine Search Committee, Member, 1/2003–1/2004

Institutional Review Board Committee, Member, 1/2005–1/2006

MDA Internal Self-Assessment Committee, Member, 1/2005

MDA Alumni and Faculty Association Steering Committee, Member, 1/2005
Executive Committee Medical Oncology Fellowship Program, Member, 1/2005
Search Committee for Head of Clinical virology, Member, 2006–2008
Employee Feedback Outcome and Response Team (EFfORT) Task Force on Diversity Issues, Member, 2006–2008
MDACC Faculty Senate, Elected Representative, 2006–2008
Division of Cancer Medicine Clinician Educator Track Creation Task Force, Member, 2007–2008
ASCO YIA Award Oversight Task Force, Chair, 2007–2008
Research Laboratory Space Subcommittee, Member, 2007-2008
Provost's Task Force on Development of a Faculty Mentoring Program, 2007-2008

Community Activities

Indications for and Advances in Stem Cell Transplantation, Leukemia & Lymphoma Society and Cancer Support Center of South Miami, March 11, 2013

Evolving Approaches in Stem Cell Transplantation for Leukemia, Lee Memorial System Regional Cancer Center, Leukemia & Lymphoma Society, Fort Myers, Florida, 4/15/2011.

Advances in stem cell transplantation for leukemia and lymphoma, Cancer Support Community, Leukemia & Lymphoma Society, Miami, Florida, September 13, 2010.

Understanding Myeloma, Myeloma Program, Cancer Support Community, Leukemia & Lymphoma Society, Deerfield Beach Hilton, Deerfield Beach, Florida, May 4, 2010.