

CURRICULUM VITAE

NAME: ASHA BHASKARAN PILLAI

OFFICE ADDRESS: Division of Bone Marrow Transplantation
St. Jude Children's Research Hospital
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ACADEMIC DEGREES:

B.S.	1990	Stanford University, Palo Alto, California (Immunology and Medical Microbiology (Summa Cum Laude, Research Honors))
M.D.	1995	Indiana University School of Medicine, Indianapolis, Indiana (Medicine, Summa Cum Laude, Research Honors)

PROFESSIONAL APPOINTMENTS:

1995-1996	Intern, Internal Medicine/ Pediatrics, Baylor College of Medicine, Houston, TX
1996-1999	Resident, Internal Medicine/ Pediatrics, Baylor College of Medicine, Houston, TX
1999	Clinical Instructor, Department of Internal Medicine, Baylor College of Medicine, Houston, TX
2000-2001	Clinical Post-Doctoral Fellow, Division of Hematology, Stanford Hospitals and Clinics, Palo Alto, CA
2001-2004	Clinical Post-Doctoral Fellow, Division of Pediatric Hematology/ Oncology/ HSCT, Lucille Salter Packard Children's Hospital, Stanford, CA
2004-2007	NRSA BMT Research Fellow, Division of HSCT and Division of Immunology, Center for Clinical Immunologic Sciences, Stanford University, Palo Alto, CA
2008	Academic Instructor, Division of Immunology, Department of Medicine, Stanford University School of Medicine, Palo Alto, CA
2009	Assistant Member, Division of Bone Marrow Transplantation and Cellular Therapy, Department of Oncology, St. Jude Children's Research Hospital, Memphis, TN
2009	Adjunct Assistant Professor, Department of Pediatrics, University of Tennessee Health Science Center, Memphis, TN
2009	Member, Signal Transduction/Immunology Program, St Jude Comprehensive Cancer Center
2009	Member, Hematologic Malignancies Program, St Jude Comprehensive Cancer Center

MEMBERSHIPS:

1986-2001	Sigma Xi Scientific Research Society American Society for Microbiology (ASM)
1998-present	American Academy of Pediatrics (AAP) American Medical Association (AMA) National Marrow Donor Program (NMDP)
2000- present	American Society of Hematology (ASH)
2001- present	American Society of Pediatric Hematology/Oncology (ASPHO)
2001- 2003	American Association for Cancer Research (AACR)
2006-present	American Society for Bone Marrow Transplantation (ASBMT) Federation of Clinical Immunology Societies (FOCIS)
2008-present	Member, Technology, Entertainment, and Design (TED)

HONORS AND AWARDS:

1986	Kodak Foundation Research Scholar
1986	American Medical Association Research Scholar
1986	Lovelace Medical Foundation Research Scholar
1986	U.S. Navy Young Investigator Award
1987	Stanford University President's Award for Academic Excellence
1988	Cecil B. Rhodes Scholarship nominee, Oxford University, UK (withdrew for family reasons)
1988-1990	Senior Resident Writing Tutor, Structured Liberal Education (SLE), Stanford
1988	Hugh O'Brien Research Fellowship, Stanford University
1989	Phi Beta Kappa, Stanford University Chapter
1989	Firestone Research Fellowship, Stanford University
1990	Stanford Cap & Gown Women's Honor Society
1992	Alpha Omega Alpha Honor Society
1993	Soroptimist International Scholar
1994	Lyman T Meiks Pediatric Research Excellence Award, Indiana University
1995	Sigma Xi First Award, National Student Research Forum, Galveston, TX
2007	Federation of Clinical Immunology Societies (FOCIS) Travel Award
2007	K08 Clinician Scientist Career Development Award, NHLBI
2008	CCIS/ ITI Scholar Award, FOCIS Advanced Course in Immunology
2009	American Society for Bone Marrow Transplantation (ASBMT) Travel Award

CERTIFICATION/LICENSURE:

2002	American Board of Pediatrics
2005	American Board of Internal Medicine

RESEARCH INTERESTS:

1. Role of regulatory iNKT cells in protective TLI/ATG non-myeloablative transplant conditioning regimens.
2. Immunoregulatory cell network interactions after allogeneic bone marrow transplantation.
3. Immunobiology of graft-versus-host disease (GVHD).
4. Role of immunoregulatory cell networks in GVHD protection and engraftment.
5. Translational application of above to design of novel transplant regimens for children.

GRANT SUPPORT:

K08 HL-088260-01 (PI Pillai) 2/01/08 – 02/01/2013
 NHLBI
 Regulatory T Cells, Mixed Chimerism: A Novel Transplant Strategy for Thalassemias
 Role: P.I.

Investigator-Initiated Human Study (PI Pillai) 01/01/09 – 05/01/2010
 Genzyme
 TLI/ATG associated in vivo expansion of Tregs after HCT for Leukemias
 Role: P.I.

Investigator-Initiated Murine Study (PI Pillai) 01/01/09 – 05/01/2010
 Genzyme
 Role of murine ATG in expansion of Tregs after TLI/ATG and BMT
 Role: P.I.

PUBLICATIONS:**Original Articles**

1. Clayberger C, Luna-Fineman S, Lee JE, Pillai A, Campbell M, Krensky AM. Interleukin-3 is a growth factor for human follicular B-cell lymphoma. *J Exp Med* 175 (2):371-376, 1992.
2. Pillai A, Jeng MR. Transfusion-Related Iron Overload: Review and Management. *Clinical Implications of Anemia (Review Article)* (2)1:3-7, 2004.
3. Pillai A, George T, Dutt S, Teo P, Strober S. Natural killer T cells can prevent graft-versus host-disease and permit graft anti-tumor activity after bone marrow transplantation. *J Immunol* 178(10):6242-6251, 2007.
4. Pillai A, Teo P, George T, Mukhopadhyay A, Dejhahksh-Jones S, Strober S. Alloantigen recognition is required for CD8-mediated graft anti-tumor activity against murine BCL1 lymphoma after myeloablative bone marrow transplantation. *Bone Marrow Transplant* 40(5):487-497, 2007.
5. Pillai A, George T, Dutt S, Strober S. Host natural killer T cells induce an IL-4 dependent expansion of donor CD4⁺CD25⁺Foxp3⁺ Tregs that protects against graft-versus-host disease. *Blood*, First Edition 113(18):4458-67 PMID: PMC2676099, 2009.

Abstracts and Presentations

1. Pillai A, Teo P, Mukhopadhyay A, Strober S. Host NK T cells separate graft-versus-tumor effect and graft-versus-host-disease after TLI/ATS and BMT. Abstract #3049; 46th Annual Meeting of the American Society of Hematology (ASH); December 04 -07, 2004 ; San Diego, CA, USA. *Blood*; Nov 16 2004;104;11 (1): 833A.
2. Pillai A, Teo P, Mukhopadhyay A, Strober S. Donor CD8⁺ T cells facilitate graft-versus-tumor effect via alloantigen recognition following murine myeloablative BMT. Abstract #3051; 46th Annual Meeting of the American Society of Hematology (ASH); December 04 -07, 2004 ; San Diego, CA, USA. *Blood*; Nov 16 2004;104;11 (1): 833A.
3. Pillai A, Dutt S, Strober S. Natural Killer T Cells Can Separate GVHD and GVT After Non-Myeloablative Bone Marrow Transplantation. Federation of Clinical Immunology Societies (FOCIS) International Conference, San Francisco, CA. June 1, 2006. Selected oral presentation #240771
4. Pillai A, George T, Dutt S, Strober S. Host Natural Killer T cells and Donor CD4⁺CD25⁺ Tregs Protect Against GVHD After Non-Meyeloablative Bone Marrow Transplantation.. American Society for Hematology (ASH) International Conference, Orlando, FL. Dec 11, 2006. Selected oral presentation #445.
5. Pillai A, George T, Dutt S, Strober, S. An immunoregulatory network of host natural killer T cells and donor CD4⁺ CD25⁺ Tregs protects against GVHD after non-myeloablative bone marrow transplantation. Abstract #319; Annual Meeting of the American Society for Bone Marrow Transplantation (ASBMT); February 08 -13, 2007 ; San Diego, CA, USA. Selected poster presentation #319.
6. Pillai A, George T, Dutt S, Strober, S. "Host natural killer T cells and donor CD4⁺CD25⁺Foxp3⁺ form an immunoregulatory network that protects against GVHD." Annual Meeting of the Federation of Clinical Immunology Societies (FOCIS); June 7 -11, 2007 ; San Diego, CA, USA. Selected oral presentation #OR.68.
7. Pillai A, George T, Dutt S, Strober, S. "Host natural killer T cells induce an IL-4 dependent proliferation of donor CD4⁺CD25⁺Foxp3⁺ Tregs that protects against GVHD." First International Conference on Tregs, Beijing, China, October 24-30, 2008. Selected oral presentation, October 26, 2008.
8. Pillai A, George T, Dutt S, Strober, S. "Host NKT cell IL-4-dependent proliferation of donor CD4⁺CD25⁺Foxp3⁺ Tregs defines a novel immunoregulatory ineraction after non-myeloablative BMT." American Society for Bone Marrow Transplantation (ASBMT) Annual Conference, Tampa, Florida. Selected oral presentation #31, February 13, 2009.

INVITED PRESENTATIONS

1. Pillai A, "Host natural killer T cells and donor CD4+CD25+Foxp3+ form an immunoregulatory network that protects against GVHD." Division of Stem Cell Transplantation, University of Texas M.D. Anderson Cancer Center, Houston, TX.; January 30, 2007.
2. Pillai A. "Host natural killer T cells induce an IL-4 dependent in vivo expansion of donor CD4+CD25+Foxp3+ that protects against GVHD." Division of Hematopoietic Cell Transplantation/Cellular Therapy, St. Jude Children's Research Hospital, Memphis, TN; September 5, 2008.
3. Pillai A. "Immunoregulatory strategies after allogeneic HCT." Division of Pediatric Hematology/Oncology, Lucille Packard Children's Hospital, Stanford University, Stanford, CA; October 3, 2008.
4. Pillai A. "Host natural killer T cells induce in vivo expansion of donor Treg that protects against GVHD." Divisions of Pediatric Hematology/Oncology, Riley Hospital for Children; Indianapolis, IN; November 3, 2008.
5. Pillai A. "Immunoregulatory strategies after allogeneic HCT." Department of Pediatrics, Stanford University, Stanford, CA; November 17, 2008.

International Development/ Leadership Experience

- 1988-1990 President, *Stanford Indians for Collective Action*
- 1988-1990 Resident Writing Tutor, Program in Structured Liberal Education (SLE), Stanford
- 1989 Co-Founder and Cultural Affairs Chairperson, *Sanskriti* (Stanford University)
- 1989-1990 Resident Assistant, Alondra House, Florence Moore Hall, Stanford University
- 1989-1990 Youth Counselor, *East Palo Alto Barrio Assistance Program* (Stanford University)
- 1992-1995 Founder, International Health Forum (Indiana University)
- 1991-1993 Co-Founder, *Take Five Project* (Medical Student Children's Support System, James Whitcomb Riley Children's Hospital, Indianapolis, IN)
- 1993-1994 Co-Director, *Evening of the Arts* Benefit (Indiana University, Indianapolis, IN.)
- 1993-1994 President, American Medical Student Association (AMSA), Indiana University 1995 Clinical elective, Division of Cardiology, Sathya Sai Institute of Higher Medical Sciences (Andhra Pradesh, India)
- 1995 Clinical elective, Departments of Medicine and Pediatrics, Indiana University/MOI University Health Initiative (Eldoret, Kenya)
- 1996 Physician Advisor, AIMS Project, Mata Amritanandamayi Mission Trust (Kollam, Kerala, India)
- 1996 Clinical elective, Pediatric Oncology, Regional Cancer Center, Trivandrum, India
- 2003 Advisor, *VISION 2020 International C.E.O. Summit*, Amrita University (September 23-25, 2003; Cochin, Kerala, India)
- 2005 Director, *For the Children*, South Asian Tsunami Relief Project (May 15, 2005)
- 2006 Co-Instructor, *National Pediatric Oncology Initiative* (Amrita Institute of Medical Sciences, Cochin, Kerala, India)
- 2007 Founder, *Purogati* [US 501(c)(3) non-profit dedicated to advanced healthcare, education, and other infrastructure development in India]
- 2007 Medical Advisory Board, Project Alexis (Yahoo! Foundation initiative)
- 2008 TED Member, TED 2009 attendee (Long Beach, CA, Feb 03-07, 2009).
- 2009 TED Member, TED 2010 attendee (Long Beach, CA, Feb 09-13, 2010).

PUBLICATIONS

1. Dremann S. Agents of Change: In tsunami's wake, physicians alter world medicine through volunteerism. Palo Alto Weekly; Mar 16, 2005, pp. 15-17.
http://www.paloaltoonline.com/weekly/morguepdf/2005/2005_03_16.paw.section1.pdf
2. Conger K. Tsunami survivor: Doctor treats the terrible pain of grief. Stanford Report; 2005.
<http://news-service.stanford.edu/news/2005/january26/med-tsunami-asha-012605.html>
3. Hatte S. Tsunami's wake. Stanford Medicine Magazine; Jan 26, 2005.
<http://stanmed.stanford.edu/2005summer/tsunami.html>

4. Pillai A. Survivors: Psychological trauma in the aftermath of the tsunami. India Currents; March 23, 2005.
http://www.indiacurrents.com/news/view_article.html?article_id=19f1fbb85be8b6239a8e47502da46d6a

INVITED PRESENTATIONS

1. Successful 5-Stage NGO Disaster Response Scenario: Post-Tsunami Relief and Sustainable Development in South India; for Sanskriti, Stanford University, Tressider Union, Jan 20, 2005.
2. After the Waves: Recovery from the Tsunami Disaster in South Asia; Panel #2, for Haas Center for Public Service, Stanford University, Jan 25, 2005. <http://haas.stanford.edu/index.php/item/1112>
3. The NGO Perspective to Disaster Relief: Post- Tsunami Sustainable Development in South India. Plenary Panel, for the Tsunami Relief Coalition and International Development Forum, Cal State University, Hayward, Mar 17, 2005. <http://pioneer.csueastbay.edu/PioneerWeb/PioneerNews3-1705/PioneerNews3-17-05- page1.pdf>

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