**CURRICULUM VITAE**

**Sharon Fei-Hsien Chen, MD, MS**

## OFFICE ADDRESS

**Stanford University School of Medicine**
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## EDUCATION

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|---|---|
| 2004-2006 | Master of Science, Clinical Research,<br>University of Minnesota School of Public Health<br>Division of Epidemiology<br>Minneapolis, Minnesota |
| 1992-1996 | Doctor of Medicine<br>Baylor College of Medicine<br>Houston, Texas |
| 1988-1992 | Bachelor of Arts, Biology<br>University of Texas at Austin<br>Austin, Texas |

## POSTGRADUATE TRAINING

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|---|---|
| 2000-2003 | Postdoctoral Clinical Fellow, Pediatric Infectious Diseases<br>Stanford University School of Medicine<br>Palo Alto, California |
| 1996-1999 | Internship and Residency Training, Pediatrics<br>University of Rochester, Children's Hospital at Strong<br>Rochester, New York |

## OTHER POSTGRADUATE TRAINING

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|---|---|
| 2007 | Intensive Course in Clinical Research (ICCR):<br>Study Design and Performance<br>Child Health Research Program, Health Research &<br>Policy, Stanford/Packard Center for Translational Research in<br>Medicine (SPCTRM)<br>October 22-26, Stanford, CA |
| 2005 | Summer School in Primary Immune Deficiency Disorders.<br>Clinical Immunology Society<br>October 13-17, Miami, Florida |

## ACADEMIC APPOINTMENTS

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| 2006-present | Instructor, Department of Pediatrics, Division of Infectious Diseases, Stanford University School of Medicine, Stanford, CA |
| 2006 | Assistant Professor, Department of Pediatrics, Division of Infectious Diseases, University of Minnesota School of Medicine, Minneapolis, Minnesota |
| 2003-2005 | Instructor, Department of Pediatrics, Division of Infectious Diseases, University of Minnesota School of Medicine, Minneapolis, Minnesota |
| 1999 | Clinical Instructor, Department of Pediatrics, Children's Hospital at Strong, University of Rochester |
| 1997 | Chief Resident, Ambulatory Pediatrics Children's Hospital at Strong, University of Rochester |

## HOSPITAL APPOINTMENTS

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|---|---|
| 2006-present | Attending Physician, Pediatric Infectious Diseases Lucile Packard Children's Hospital and Clinics, Stanford, CA |
| 2006 | Medical Director, Pediatric Infection Control Sub-committee University of Minnesota Children's Hospital, Fairview |
| 2003-2006 | Attending Physician, Pediatric Infectious Diseases University of Minnesota Children's Hospital, Fairview and University of Minnesota Pediatric Specialty Clinics |

## VOLUNTEER POSITIONS

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| 2-4/2000 | Health Volunteers Overseas, Uganda, Africa. Mulago Hospital, Makerere Univeristy, Kampala, Uganda. |
| 5/2000 | Catholic Diocese, Bishop-appointed, Migori, Kenya, Africa. Pediatric consultant for St. Joseph's Mission Hospital, rural western Kenya. |

## CERTIFICATION & LICENSE

Medical Board of California A73096
Diplomate, American Board of Pediatrics, 1999, 2006
Board Certified, Pediatric Infectious Diseases 2005

## PROFESSIONAL MEMBERSHIPS

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| 1999-present | American Academy of Pediatrics |
| 2000-present | Pediatric Infectious Disease Society |
| 2004- present | Infectious Diseases Society of America, Member |
| 2008- present | American Society of Transplantation |

## AWARDS & HONORS

Outstanding Abstract Poster, Fourth Annual Pediatrics Research Retreat, Stanford University School of Medicine, 2013
Outstanding Faculty Educator Award, University of Minnesota School of Medicine, 2006
Outstanding Faculty Educator Award, University of Minnesota School of Medicine, 2004
Outstanding Fellow's Award, Stanford University School of Medicine, 2003
Alpha Omega Alpha 1999

## PROFESSIONAL ACTIVITIES/SERVICE

Faculty Practice Organization (FPO) Management Committee, Lucile Packard Children's Hospital, Stanford University School of Medicine, 2012-present.

General Pediatric and Medical Specialties Peer Review Committee, Lucile Packard Children's Hospital, Stanford University School of Medicine, 2011-present.

Clinical Mentor, Intensive Course in Clinical Research (ICCR): Study Design and Performance. Child Health Research Program, Health Research & Policy, Stanford/Packard Center for Translational Research in Medicine (SPCTRM), Stanford University School of Medicine, Sep 7-11, 2008; Sep 14-18, 2009; Sep 13-17, 2010; Sep 12-16, 2011; Sep 10-14, 2012.

Pediatric Residency Mentor Program, Stanford University School of Medicine, 2007-present.

Pediatric Residency Scholarly Project Committee, University of Minnesota School of Medicine, 2005-2006

## RESEARCH FUNDING

ACTIVE

08/2009-07/2014 NIH K23-HL096842-01
Predicting Lung Allograft Rejection Using CMV-Specific T-Cell Responses
Total Award: $653,805 PI: Sharon F. Chen
The central objective of this proposal is to determine if the measurement of CMV-specific T-cell responses in lung transplant patients can be used as a predictor of allograft rejection and poor control of CMV load.
Role: Principal Investigator

10/2011-10/2013 Division of Transplantation, Stanford University School of Medicine.
BK-specific T-cells in Pediatric Renal Transplant Patients with BK Virus Infection and Disease
Total Award: $12,000 PI: Sharon F. Chen
This project is to determine the BK-specific T-cell response in pediatric renal transplant patients who have BK virus viuria compared to viremia compared to nephropathy.
Role: Principal Investigator

5/2013-5/2014 Beta Sigma Phi Fellowship Fund
Differentiating Clinical Outcomes in Immunocompromised Pediatric Patients by Detecting Specific BK Virus Strains.
Total Award: $40,000 PI: Sharon F. Chen
This project is to characterize different BK virus strains by sequencing methods and correlate with clinical outcomes.
Role: Principal Investigator

9/2012-9/2013 Transplant and Tissue Engineering Center of Excellence Program Endowment Fund. Lucile Packard Children's Hospital at Stanford.
Differentiating Clinical Outcomes in Immunocompromised Pediatric Patients by Detecting Specific BK Virus Strains.
Total Award: $80,000 PI: Sharon F. Chen
This project is to characterize different BK virus strains by sequencing methods and correlate with clinical outcomes.
Role: Principal Investigator

COMPLETED

4/2012-4/2013 Beta Sigma Phi Fellowship Fund
Differentiating Clinical Outcomes in Immunocompromised Pediatric Patients by Detecting Specific BK Virus Strains.
Total Award: $40,000 PI: Sharon F. Chen
This project is to characterize different BK virus strains by sequencing methods and correlate with clinical outcomes.
Role: Principal Investigator

09/2008-08/2011 NIH/NIAID, PI: Kathleen Gutierrez
N01-AI-30025, DMID #06-0046, CASG #112
"Phase III Randomized, Placebo-Controlled, Blinded Investigation of 6 Weeks versus 6 Months of Oral Valganciclovir Therapy in Infants with Symptomatic Congenital CMV Infection."
Role: Co-Investigator

07/2008-07/2010 CHEST Foundation/American Society of Transplantation Clinical Research Award in Lung Transplantation, PI: Sharon F. Chen
"Anti-Viral Treatment Strategy for Cytomegalovirus (CMV) Infections in Lung Transplant Patients Based on CMV-specific T-cell Immune Responses"
Total Award: $40,000/year for 2 years

This project is to understand the patterns of CMV-specific T-cell acquisition in blood and bronchoalveolar lavage fluid of lung transplant patients relative to episodes of CMV infection and disease.

06/2007-08/2008 Children's Health Research Program, Lucile Packard Children's Hospital/ Stanford University, PI: Sharon F. Chen
"CMV-specific CD4 and CD8 T cell immune responses: implications for anti-viral prophylaxis in lung transplant patients"
Total Award: $30,000
This project is to evaluate CMV-specific T cell immune responses in lung transplant patients and assess the use of immunologic parameters for deciding anti-viral therapy.

09/2006-12/31/08 NIH/NIAID, PI: Corry Dekker
Subcontract from Vanderbilt University, 02/14/03-12/31/08
"Evaluation of Control Measures Against Diseases Other Than AIDS"
The major goal of this project is to conduct prophylactic studies on candidate vaccines, therapeutic vaccines and other biologicals and drugs for Phase I and II clinical investigations.
Role: Co-Investigator

07/01/03-12/31/08 NIH/NIAID, PI: Corry Dekker
R01 AI053589
"Health Impact of Congenital CMV Infection"
The major goal of this project is to define the epidemiology and disease burden of congenital CMV infection in a diverse Northern California population.
Role: Co-Investigator

2005 – 2007 Viking Children's Fund. PI: Sharon F. Chen (transferred to PI: Yeon Choi upon moving to Stanford University)
"Use of Newborn Blood Spots for Diagnosis of Congenital Cytomegalovirus (CMV) Infection with Real-Time Polymerase Chain Reaction (RT-PCR)"
Total Award: $50,000
This project is to apply the blood spot RT-PCR assay on archived blood spots to assess the incidence of congenital CMV infection in Minnesota and to assess the feasibility of diagnosing congenital CMV in the older child with sensorineural hearing loss.

2004–2005 T32 Institutional Training Grant, NIH/NIAID, Infectious Diseases Training in Clinical Investigation, PI: Philip K. Peterson
"Preventing HHV-6 reactivation in Umbilical Cord Blood Transplant Patients"
This project is a retrospective evaluation of the potential use of high-dose acyclovir for post-transplant prophylaxis against HHV-6 reactivation.
Role: Trainee

2001-2003 Siegleman Fellowship, PI: Sharon F. Chen
"CD8 T cell responses to primary cytomegalovirus infection in healthy young children"
This project investigates the CMV-specific CD8 T cell response in natural primary CMV infection in children and its relationship to control of the viral infection

## PUBLICATIONS

Eid AJ, **Chen SF** and the American Society of Transplantation Infectious Diseases Community of Practice. Human Parvovirus B19. The American Society of Transplantation Infectious Diseases Guidelines 3rd Edition. *American Journal of Transplantation* 2013, 13 (supp 4): 201-205.

Nguyen, L.; McClellan, R.B; Chaudhuri, A.; Alexander, S.R.; **Chen, S.F**.; Concepcion, W.; Grimm, P. Conversion from Tacrolimus/Mycophenolic Acid to Tacrolimus/Leflunomide to Treat Cutaneous Warts in a Series of Four Pediatric Renal Allograft Recipients. *Transplantation* 15 September 2012, 94: 5.

**Chen SF,** Gutierrez K. *Mycobacterium bovis* Disease in a Pediatric Renal Transplant Patient. Pediatric Infectious Diseases Journal. 2006 Jun 25(6): 564-566.

**Chen SF**. *Staphylococcus aureus* Decolonization. Pediatric Infectious Diseases Journal. 2005 Jan; 24(1):79-80.

**Chen SF**, Tu W, Adler S, Dekker CL, Lewis DB, Arvin AA, et al. Antiviral CD8 T Cells in the Control of Primary Human Cytomegalovirus Infection in Early Childhood. Journal of Infectious Diseases. 2004 May 1, 189: 1619-1627.

Tu W, **Chen SF**, Adler S, Arvin AA, Lewis, DB, et al. Persistent and Selective Deficiency of CD4+ T Cell Immunity to Cytomegalovirus in Immunocompetent Young Children. The Journal of Immunology 2004, 172:3260-3267.

**Chen SF**, Weinberg G. Acute Retinal Necrosis. Pediatric Infectious Diseases Journal. 2002 Jan;21(1):78-80.

## CHAPTERS

Arvin AM, **Chen SF.** Vaccines, Viral. In The Desk Encyclopedia of Microbiology. (Moselio Schaechter, Editor). 3rd Edition. 2009; Elsevier, Oxford. pp. 1154-1162.

**Chen SF.** Principles of Antiparasitic Therapy. In Nelson Textbook of Pediatrics, Eds. Kleigman RM, Behrman RE, Jenson HB, Stanton BF. 18th Edition. 2007; Saunders-Elsevier. Philadelphia, PA. Chapter 276, pp. 1448-58

**Chen SF**, Schleiss MR. Principles of Antiviral Therapy. In Nelson Textbook of Pediatrics, Eds. Kleigman RM, Behrman RE, Jenson HB, Stanton BF. 18th Edition. 2007; Saunders-Elsevier. Philadelphia, PA. Chapter 242, pp.1327-31.

**Chen SF**, Hall CB. RSV and Bronchiolitis. Mosby Pediatric Clinical Advisor. Ed. Garfunkel, Kaczorowski, Christy. Mosby, Inc. 2002.

**Chen SF**. Rotator Cuff Syndrome. Mosby Pediatric Clinical Advisor. Ed. Garfunkel, Kaczorowski, Christy. Mosby, Inc. 2002.

**Chen SF**. Slipped Capital Femoral Epiphysis. Mosby Pediatric Clinical Advisor. Ed. Garfunkel, Kaczorowski, Christy. Mosby, Inc. 2002

## ABSTRACTS

**Chen SF**, Kapusinszky B, Sahoo MK, Yamamoto F, Mallempati K, Kjelson L, Anderson M, Gallo A, Grimm P, Concepcion W, Pinsky BA. Novel BK Virus Variants in Pediatric Immunocompromised Patients. Infectious Diseases Society of America (IDSA) ID Week Joint Meeting, Oct 2-6, 2013, San Francisco, CA 2013 (poster).

**Chen SF**, Kapusinszky B, Sahoo MK, Yamamoto F, Mallempati K, Kjelson L, James J, Chandri A, Anderson M, Gallo A, Grimm P, Concepcion W, Pinsky BA. Differentiating Clinical Outcomes in Immunocompromised Pediatric Patients by Detecting Specific BK Virus Strains. 2013 Department of Pediatrics Research Retreat, Stanford University School of Medicine, April 26, 2013, Stanford, CA (poster).

**Chen SF,** Liu LX, Dhillon G, de Leon V, Mistry N, Weill D, Lewis DB. De novo CMV-specific T cell Responses in High-risk (D+/R-) Lung Transplant Patients on Anti-viral Prophylaxis. American Thoracic Society International Meeting, May 18-23, 2012, San Francisco, CA (oral presentation).

**Chen SF,** Liu LX, Dhillon G, de Leon V, Weill D, Lewis DB. Monitoring CMV-specific T-cell Immunity to Identify Lung Transplant Patients at High Risk of Late CMV Infection. Infectious Disease Society of America (IDSA), Oct 21-24, 2010, Vancouver, Canada (poster).

**Chen SF,** Liu LX, Dhillon G, de Leon V, Weill D, Lewis DB. Monitoring CMV-specific –cell Immunity to Identify Lung Transplant Patients with Persistent High Risk of CMV Infection in the Post-Transplant Period. 2010 Stanford University School of Medicine Department of Pediatrics Research Retreat. Feb 26, 2010, Stanford, CA (poster).

**Chen SF,** Liu LX, Dhillon G, de Leon V, Weill D, Lewis DB. "Relationship Between CMV-specific T-cell Immunity and Allograft Rejection in Lung Transplant Patients". Infectious Disease Society of America (IDSA), Oct. 29 – Nov. 1, 2009, Philadelphia, PA. (poster)

**Chen SF,** Liu LX, Dhillon G, de Leon V, Weill D, Lewis DB. "CMV-Specific T-cell Responses in Lung Transplant Patients Using a Monocyte-Derived Dendritic Cell (MDDC) Assay". American Transplant Congress, May 30-Jun3, 2009, Boston, MA. (poster)

**Chen SF**, Lewis DB, Holmes TH, Slifer TS, Ramachadran V, Liu L-X, Arvin AM, Dekker CL. "Congenital HCMV Infection Impairs CD4 and CD8 T-Cell Responses to HCMV and Unrelated Antigens". 2008 Congenital CMV Conference, Nov 2008, Atlanta, GA. (oral presentation)

Raasch JP, **Chen SF**, Baker SA, Kumar A. "Skin Lesions in a Patient with X-linked Agammaglobulinemia". Primary Immunodeficiency Disease Consortium Conference/Federation of Clinical Immunology Societies Conference, June 2006, San Francisco, CA. (poster)

**Chen SF**, Tu W, Adler S, Dekker CL, Lewis DB, Arvin AA, et al. "Analysis of Human Cytomegalovirus-Specific CD8 T cell Responses in Infected Children and Adults and Correlation with CMV Viral Load in Urine". Infectious Diseases Society of America (IDSA) 2002, Chicago, IL. (poster)

## INVITED PRESENTATIONS

Interferon-gamma Release Assays for *Mycobacterium Tuberculosis*: Limitations in Children. El Camino Hospital Pediatric Grand Rounds, May 16, 2011, Mountain View, CA.

Hot Topics in Pediatric Infectious Diseases. 18th Annual Pediatric Update Pre-Conference: Pediatric Infectious Diseases – Clinical Challenges in Primary Care. Stanford University School of Medicine and Lucile Packard Children's Hospital, Stanford, CA. July 15, 2010.

Antiviral Treatment Strategy for CMV Infections in Lung Transplant Patients Based on CMV-specific T-cell Immune Response. CHEST 2009, Transplant Network, Nov. 2, 2009, San Diego, CA.

Human Metapneumovirus: The New Kid on the Block. Fourteenth Annual Practical Pediatrics for the Primary Care Physician. Children's Hospitals and Clinics, St. Paul, MN; September 23, 2004.

Hepatitis C Infection. Topics and Advances in Pediatrics. University of Minnesota Medical School, Minneapolis, MN. June 10, 2005.

Primary Immune Deficiencies: Clinical Pearls. University of Minnesota Medical Center Telemedicine CME for TriCounty Hospital, Wadena, MN. Minneapolis, MN. June 5, 2006.