



Sharon F. Chen

Clinical Professor, Pediatrics - Infectious Diseases

CLINICAL OFFICE (PRIMARY)

- **Pediatric Infectious Disease**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Linda Lambert - Administrative Assistant

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Bio

CLINICAL FOCUS

- Pediatric Infectious Diseases
- Immunocompromised Hosts

ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics - Infectious Diseases
- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Member, Alpha Omega Alpha (1999)
- Pediatric Housestaff Outstanding Fellow's Award, Stanford University (2003)
- Outstanding Faculty Educator Award, University of Minnesota (2004)
- Outstanding Faculty Educator Award, University of Minnesota (2006)
- Henry J. Kaiser Family Foundation Award for Excellence in Preclinical Teaching, Stanford University School of Medicine (2017)
- Medical Education Scholarship Award of Excellence, Department of Pediatrics, Stanford University School of Medicine (2018)

PROFESSIONAL EDUCATION

- Medical Education: Baylor College of Medicine (1996) TX
- Board Certification: Pediatric Infectious Diseases, American Board of Pediatrics (2005)
- Bachelor of Arts, University of Texas at Austin, Biology (1992)
- Residency: University of Rochester (1999) NY
- Fellowship: Stanford University Medical Center (2003) CA
- Masters of Science, Univ Minnesota Schl Public Hlth, Clinical Research (2006)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research interest is in viral infections commonly affecting immunocompromised patients and the viruses' stimulation of the host's immune system. I have a special interest in latent and persistent viruses, such as cytomegalovirus, BK virus, adenovirus, hepatitis B virus and others. I focus on the host immune response to these viruses with the end goal of improving clinical practices. I collaborate with individual and core viral/immunology laboratories to conduct my research, primarily on T-cell responses.

As Co-director of the Stanford Childrens' Pediatric Infectious Diseases Program in Immunocompromised Hosts (PIDPIC), I develop and conduct clinical and translational studies to improve identification, treatment and prevention of infectious diseases in the immunocompromised patient population. In collaboration with the clinical teams, we establish best practices from our clinical studies and start innovative protocols, in order to improve our care for this complex patient population.

My scholarly work extends to medical education. I have a special interest in how people think and make decisions. These are vital skills to continually improve in order to provide high-quality care to patients. "Thinking" is a hidden process, so I am building tools to expose these hidden traits and taking advantage of large language models and AI to help detect and analyze these traits. Using design thinking principles and rooted in education pedagogy, I build assessment tools to promote continual learning. I collaborate with education experts in the Stanford Graduate School of Education and the Hasso Plattner Institute of Design (d.school).

Teaching

COURSES

2023-24

- Microbiology and Infectious Diseases I: INDE 263 (Win)
- Microbiology and Infectious Diseases II: INDE 265 (Aut)

2022-23

- Microbiology and Infectious Diseases I: INDE 263 (Win)
- Microbiology and Infectious Diseases II: INDE 265 (Aut)

2021-22

- Microbiology and Infectious Diseases I: INDE 263 (Win)
- Microbiology and Infectious Diseases II: INDE 265 (Aut)

2020-21

- Microbiology and Infectious Diseases I: INDE 263 (Win)
- Microbiology and Infectious Diseases III: INDE 265 (Aut)

STANFORD ADVISEES

Med Scholar Project Advisor

Candice Kim

Publications

PUBLICATIONS

- **A Multi-Institution Collaboration to Define Core Content and Design Flexible Curricular Components for a Foundational Medical School Course: Implications for National Curriculum Reform.** *Academic medicine : journal of the Association of American Medical Colleges*

Chen, S. F., Deitz, J., Batten, J. N., DeCoste-Lopez, J., Adam, M., Alspaugh, J. A., Amieva, M. R., Becker, P., Boslett, B., Carline, J., Chin-Hong, P., Engle, D. L., Hayward, et al
2019

- **The Use of Short, Animated, Patient-Centered Springboard Videos to Underscore the Clinical Relevance of Preclinical Medical Student Education.** *Academic medicine*
Adam, M., Chen, S. F., Amieva, M., Deitz, J., Jang, H., Porwal, A., Prober, C.
2017
- **Limited Variation in BK Virus T-Cell Epitopes Revealed by Next-Generation Sequencing.** *Journal of clinical microbiology*
Sahoo, M. K., Tan, S. K., Chen, S. F., Kapusinszky, B., Concepcion, K. R., Kjelson, L., Mallempti, K., Farina, H. M., Fernández-Viña, M., Tyan, D., Grimm, P. C., Anderson, M. W., Concepcion, et al
2015; 53 (10): 3226-3233
- **Novel protocol including liver biopsy to identify and treat CD8+ T-cell predominant acute hepatitis and liver failure.** *Pediatric transplantation*
McKenzie, R. B., Berquist, W. E., Nadeau, K. C., Louie, C. Y., Chen, S. F., Sibley, R. K., Glader, B. E., Wong, W. B., Hofmann, L. V., Esquivel, C. O., Cox, K. L.
2014; 18 (5): 503-509
- **Longitudinal Kinetics of Cytomegalovirus-specific T-cell Immunity and Viral Replication in Infants with Congenital Cytomegalovirus Infection** *Journal of the Pediatric Infectious Diseases Society*
Chen, S. F., Holmes, T. H., Slifer, T., Ramachandran, V., Mackey, S., Hebson, C., Arvin, A. M., Lewis, D. B., Dekker, C. L.
2014
- **Antiviral CD8 T cells in the control of primary human cytomegalovirus infection in early childhood** *40th Annual Meeting of the Infectious-Diseases-Society-of-America*
Chen, S. F., Tu, W. W., Sharp, M. A., Tongson, E. C., He, X. S., Greenberg, H. B., Holmes, T. H., Wang, Z. T., Kemble, G., Manganello, A. M., Adler, S. P., Dekker, C. L., Levvis, et al
UNIV CHICAGO PRESS.2004: 1619-27
- **Persistent and selective deficiency of CD4(+) T cell immunity to cytomegalovirus in immunocompetent young children** *JOURNAL OF IMMUNOLOGY*
Tu, W. W., Chen, S., Sharp, M., Dekker, C., Manganello, A. M., Tongson, E. C., Maecker, H. T., Holmes, T. H., Wang, Z. T., Kemble, G., Adler, S., Arvin, A., Lewis, et al
2004; 172 (5): 3260-3267
- **Clinical characteristics and outcomes of pediatric patients with CMV DNA detection in bronchoalveolar lavage fluid.** *Pediatric pulmonology*
Burgener, E. B., Waggoner, J., Pinsky, B. A., Chen, S. F.
2017; 52 (1): 112-118
- **Molecular and Culture-Based Bronchoalveolar Lavage Fluid Testing for the Diagnosis of Cytomegalovirus Pneumonitis.** *Open forum infectious diseases*
Tan, S. K., Burgener, E. B., Waggoner, J. J., Gajurel, K., Gonzalez, S., Chen, S. F., Pinsky, B. A.
2016; 3 (1): ofv212-?
- **Pleural Effusion and Fever in an Immunocompromised Patient.** *Journal of the Pediatric Infectious Diseases Society*
Kay, A. W., Itoh, M., Valdez, J., Chen, S. F., Mathew, R., Gans, H. A.
2015; 4 (1): e6-9
- **BK Polyomavirus Subtype III in a Pediatric Renal Transplant Patient with Nephropathy.** *Journal of clinical microbiology*
Kapusinszky, B., Chen, S. F., Sahoo, M. K., Lefterova, M. I., Kjelson, L., Grimm, P. C., Kambham, N., Concepcion, W., Pinsky, B. A.
2013; 51 (12): 4255-4258
- **Human Parvovirus B19 in Solid Organ Transplantation** *AMERICAN JOURNAL OF TRANSPLANTATION*
Eid, A. J., Chen, S. F.
2013; 13: 201-205
- **Conversion From Tacrolimus/Mycophenolic Acid to Tacrolimus/Leflunomide to Treat Cutaneous Warts in a Series of Four Pediatric Renal Allograft Recipients** *TRANSPLANTATION*
Lieuko Nguyen, L., McClellan, R. B., Chaudhuri, A., Alexander, S. R., Chen, S. F., Concepcion, W., Grimm, P.
2012; 94 (5): 450-455
- **Mycobacterium bovis disease in a pediatric renal transplant patient** *PEDIATRIC INFECTIOUS DISEASE JOURNAL*
Chen, S. F., Gutierrez, K.

2006; 25 (6): 564-566

- **Staphylococcus aureus decolonization** *PEDIATRIC INFECTIOUS DISEASE JOURNAL*
Chen, S. F.
2005; 24 (1): 79-80
- **Acute retinal necrosis syndrome in a child** *PEDIATRIC INFECTIOUS DISEASE JOURNAL*
Chen, S., Weinberg, G. A.
2002; 21 (1): 78-80