

**HAYLEY GANS, M.D.**  
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#### **EDUCATION**

1983-1987 B.A., Biochemistry, Connecticut College, New London, CT  
1987-1991 M.D., SUNY Health Science Center at Syracuse, Syracuse, NY

#### **POST-GRADUATE TRAINING**

1991-1992 Intern, Department of Pediatrics, Stanford University School of Medicine, Stanford, CA  
1992-1994 Resident, Department of Pediatrics, Stanford University School of Medicine, Stanford, CA  
1994-1998 Fellow, Division of Pediatric Infectious Diseases, Stanford University School of Medicine, Stanford, CA

#### **EMPLOYMENT**

6/98-12/04 Clinical Instructor/Research Associate.; Department of Pediatrics, Stanford University School of Medicine, Stanford, CA  
1/05-12/05 Clinical Educator: Department of Pediatrics, Stanford University School of Medicine, Stanford, CA  
1/06-6/06 Acting Assistant Professor, Department of Pediatrics, Stanford University School of Medicine, Stanford, CA  
7/06-2/15 Assistant Professor, Department of Pediatrics, Stanford University School of Medicine, Stanford, CA  
3/15-9/18 Clinical Associate Professor, Department of Pediatrics, Stanford University School of Medicine, Stanford, CA  
9/18- Clinical Professor, Department of Pediatrics, Stanford University School of Medicine, Stanford, CA

#### **OTHER APPOINTMENTS**

2007-2017 Fellowship Program Director, Pediatric Infectious Diseases, Stanford University Medical Center  
2012-2014 Physician Lead for Ambulatory Automation Project, Lucile Packard Children's Hospital  
2013- Co-director of Pediatric Infectious Diseases Program for Immunocompromised Host, Pediatric Infectious Diseases, Stanford University Medical Center  
2013-2018 Coach, Pediatric Residency Program, Stanford University Medical Center  
2014-2017 Physician Lead for Ambulatory Local Improvement Team, Lucile Packard Children's Hospital  
2014-2018 Clinical Chief, Pediatric Infectious Diseases, Lucile Packard Children's Hospital  
2017- Director, Fellowship Education, Department of Pediatrics, Stanford University Medical Center  
2017- Fellowship Associate Program Director, Pediatric Infectious Diseases; Stanford University Medical Center

#### **HONORS AND AWARDS**

1987 Phi Beta Kappa, Magna Cum Laude, Paul Abel Schwartz Award for excellence in chemistry, Connecticut College, New London, CT  
1988 Dr. Glen Leak Fellowship for study in oncology, SUNY Health Science Center at Syracuse. Syracuse, NY  
1991 American Medical Student Association Award, Preventive Medicine Public Health Award, SUNY Health Science Center at Syracuse, Syracuse, NY  
2011 Faculty Fellows Leader Program, Stanford University School of Medicine, Stanford, CA  
2017 Certificate of Achievement, Stanford Clinical Effectiveness Leadership Training, Stanford University School of Medicine, Stanford, CA  
2018 Fuji Apple Award in Recognition of Contribution to Fellowship Education and Mentorship, Stanford University Department of Pediatrics

## CERTIFICATION

1991            Diplomat, National Board of Medical Examiners  
1994-2011     Diplomat, American Board of Pediatrics  
1999-2026     Diplomat, Pediatric Infectious Diseases  
2005           Fellow, American Academy of Pediatrics  
2015           Fellow, Pediatric Infectious Diseases Society  
2016           Fellow, Infectious Diseases Society of America

## MEDICAL LICENSURE

1993-           Physician and Surgeon License, State of California

## RESEARCH SUPPORT

### Present:

7/17-7/19      National Vaccine Program Office, NIH. Safety Research of Currently Recommended Immunizations: Identifying Genetic, Immunologic and Clinical Factors Predisposing to Adverse Events after MMR Vaccine. Co-investigator.  
7/17-6/19      Child Health Research Institute. Host and pathogen risk factors in Adenovirus infection in Pediatric Solid Organ transplantation, Mentor

### Past:

1988-1989      American Cancer Society Student Award. TSF1, 3, and 6: Global Regulatory Genes in *Saccharomyces cerevisiae*, Student research project  
1996-1997      Dean's Postdoctoral Fellowship. Ontogeny of Measles Immunity In Infancy. Postdoctoral research project.  
1996-1997      Microbiology and Immunology Fellowship Award-N.I.H. Training Grant. Immunosuppressive effects of Measles Immunization in Relation to Age of Vaccination. Postdoctoral research project.  
1997-1998      NIH Grant (R01). Ontogeny of Measles Immunity In Infants. Co-investigator.  
1999-2001      Child Health Research Center Grant, Career Development Award. Immunogenicity of Measles Vaccine In Infancy. Principle Investigator  
2000-2005      Research Career Development Award (K23), NIH. Mechanisms of Immunity of Viral Vaccines in Infancy. Principle Investigator.  
5/05-4/07      VTEU, NIH, Immunogenicity and Safety of Live Attenuated Varicella Vaccine in 12 and 18 Month-old Children, With and Without Concomitant Administration of Measles-Mumps-Rubella Vaccine. Co-investigator.  
4/05-2/11      NIH Grant (R01). Ontogeny of Measles Immunity in Infants. Principle Investigator.  
2/11-2/12      Pediatric Research Fund. Innate and Adaptive Immunity in HIV Infected Children Receiving HAART. Principle Investigator  
9/11-1/13      Transplant and Tissue Engineering Center of Excellence Program Endowment Fund. T cell Immunity Before and After Liver Transplantation in Children. Principle Investigator  
7/13-7/15      Child Health Research Institute. Innate and Adaptive Immunity in HIV infected children on Highly Active Antiretroviral Therapy. Mentor  
2/17-2/18      Child Health Research Institute. Risk Factors for Cytomegalovirus and Epstein Barr Virus Infections in Pediatric Solid Organ Transplant Patients. Principle Investigator.  
7/16-6/18      Child Health Research Institute. Epidemiology, Microbiology and Outcomes of ~~Herpes~~ Herpes Infection in Children with Short Bowel Syndrome. Mentor

## **COMMITTEE SERVICE**

### **Stanford School of Medicine**

- 1998- Integrated Infectious Diseases Committee
- 2005-2009 Children's Health Research Program: Subcommittee for junior faculty Mentoring
- 2005-2008 Children's Health Research Program: Subcommittee for Fellow Grant Writing
- 2005-2015 Resident Advisor; Lucile Packard Children's Hospital
- 2007-2017 Resident Rotation Director; Lucile Packard Children's Hospital
- 2007- Clinical Mentor for Intensive Course in Clinical Research
- 2008-2012 Education Advisory Committee
- 2009-2013 Infection Control and Prevention
- 2010- Emerging Infectious Diseases and Bioterrorism subcommittee
- 2016- Task Force on Departmental Decision Making and Transparency
- 2017- Mentor, Leadership, Education and Diversity

### **Stanford Children's Health**

- 2004-2007 Pediatric Infectious Diseases Peer Review
- 2007-2011 General Pediatrics and Medical Specialty Peer Review Committee
- 2009-2018 IS Physician Advisory Group
- 2011- Health Information Management Committee

### **National**

- 2010-2018 Member, Training Program Director Committee, Pediatric Infectious Diseases Society
- 2012- Publications Committee, Journal of the Pediatric Infectious Diseases Society
- 2013-2016 Member, Vaccine Advocacy Committee, Pediatric Infectious Diseases Society
- 2014- Member, Pediatric Transplant Infectious Diseases Symposium Planning Committee, Pediatric Infectious Diseases Society and St. Jude Children's Research Hospital
- 2016-2018 Content Development Team, Pediatric Infectious Diseases Content Expert, American Board of Pediatrics
- 2017- Member, Education Committee, Pediatric Infectious Diseases Society
- 2018- Founding member, Pediatric Infectious Diseases Transplant Research Committee, Pediatric Infectious Diseases Society
- 2018- Member, Program and Meetings Committee, Pediatric Infectious Diseases Society

## **PUBLIC AND PROFESSIONAL SERVICE**

- 2007 Session Co-Chair, Society for Pediatric Research, Ontario, Canada
- 2007 Member, DSMB, Safety and Immunogenicity of Tdap Vaccine in Healthy Pregnant Women, Safety Their Neonates, and Effect of Maternal Immunization on Infant Immune Responses to DTaP Vaccine
- 2008 Faculty Member for PREP The Course, An Intensive Review in Pediatrics, American Academy of Pediatrics
- 2009 Member, DSMB, A Randomized, Double-Blind Trial on the Safety and Immunogenicity of Trivalent Influenza Vaccine in Pregnant Women
- 2009 Session Co-Chair, Infectious Diseases Society of America, Philadelphia, PA
- 2010 Faculty Fellows Program, Stanford University Medical Center, CA
- 2010 Member, Measles, Mumps, Rubella CDC Working Group, Atlanta, GA
- 2011 NIH review committee: Respiratory Pathogens Research Centers, Bethesda, MD
- 2011 NIH review committee: International Research in Infectious Diseases including AIDS (IRIDA), Bethesda, MD
- 2012 F1000 review committee
- 2012 Program proposal reviewer, APS/SPR
- 2012 Abstract reviewer, APS/APR
- 2012 Session Co-Chair, Infectious Diseases Society of America, ID week, San Diego, CA
- 2012 Reviewer, AAP Red Book, Measles chapter
- 2014- Contributor to UpToDate: Measles
- 2014 NIH review committee: International Research in Infectious Diseases including AIDS (IRIDA), Bethesda, MD

- 2014 Member, DMC, A Phase II, Multicenter, Randomized, Observer-Blind, Controlled Study to Evaluate Safety and Immunogenicity of a Trivalent Group B Streptococcus Vaccine in Healthy Pregnant
- 2015 NIH review committee: International Research in Infectious Diseases including AIDS (IRIDA), Bethesda, MD
- 2105 Center for Global Health, CDC review committee, Conducting Public Health Research in Kenya
- 2015 Reviewer, AAP Red Book, Measles chapter
- 2016 NIH review committee: Special Emphasis Group, Mycobacterial induced immunity in HIV-infected uninfected individuals”, Bethesda, MD
- 2016 FDA Grant Review Panel: Office of Orphan Products Development, Food and Drug Administration, Silver Spring, MD
- 2016 CDC Center for Global Health Special Emphasis Panel Reviewer, Teleconference
- 2017 CDC Center for Global Health Special Emphasis Panel Reviewer, Teleconference
- 2017 Session Moderator, Infectious Diseases Society of America, ID week, San Diego, CA
- 2017 Medical Education Submissions Reviewer, Western Group On Educational Affairs Association of American Medical Colleges Regional Meeting
- 2018 Medical Education Submissions Reviewer, Learn Serve Lead Association of American Medical Colleges Annual Meeting

**AD HOC REVIEWER**

- 1999- Journal of Infectious Diseases
- 1999- Journal of Pediatrics
- 2001- Pediatric Infectious Disease Journal
- 2003- Journal of Virological Methods
- 2005- Journal of Virology
- 2005- Journal of Adolescent Health
- 2005- Journal of Clinical Microbiology
- 2005- Genes and Immunity
- 2006- European Journal of Pediatrics
- 2006- Journal of American Medical Association
- 2007- Vaccine
- 2007- Epidemiology and Infection
- 2008- European Journal of Infectious Diseases
- 2009- Clinical and Vaccine Immunology
- 2009- Indian Journal of Medical Science
- 2010- Pediatrics
- 2011- Human Immunology
- 2014- Journal of the Pediatric Infectious Diseases Society
- 2015- JAMA Pediatrics
- 2016- Pediatric Transplant
- 2019- Academic Pediatrics

**SOCIETY MEMBERSHIPS**

American Academy of Pediatrics Infectious Diseases Society of America Pediatric Infectious Disease Society Western Society for Pediatric Research Clinical Immunology Society International Pediatric Transplant Association American Society of Transplantation

**MENTORSHIP**

**Research mentors:**

**Graduate:**

- 2006-2008 Rima Hanna Wakim, Pediatric Infectious Diseases Fellow
- 2008-2010 Laura Le Dyner, Pediatric Infectious Diseases Fellow

2013-2015 Megumi Itoh, Pediatric Infectious Diseases Fellow  
2016-2018 Talal Seddik, Pediatric Infectious Diseases Fellow  
2017-2019 Coralee Del Valle Mojica, Pediatric Infectious Diseases Fellow  
2019-2021 Ayelet Rosenthal, Pediatric Infectious Diseases Fellow

**Undergraduate:**

2007-2010 Josh Wong BA, Stanford University  
2015-2017 Lucia Dalle Oro, Mount Holyoke College

**Post-doctoral thesis review committee**

2010 Holly Clifford; PhD, The University of Western Australia  
2011 Laura Gelinas, PhD, University of British Columbia

**Other mentors:**

**Graduate:**

2016 Willima Otto, MD, IDWeek mentorship program, New Orleans, LA  
2017 Sonia Mehra, MD, IDweek mentorship program, San Diego, CA  
2017 Rachel Goldstein, MD, Alyssa Honda, MD, Michael Maurer MD, Luisa Valenzuela Riveros, MD, Leadership, Education and Diversity, Stanford University, Stanford Ca

**OTHER EDUCATION ACTIVITIES**

**Curriculum Development**

2007- Pediatric Infectious Diseases Fellowship, 3-year ABP content-driven curriculum  
2010- Pediatric Infectious Diseases Fellows Day, IDweek  
2014- Pediatric Transplant Infectious Diseases Symposium, St. Jude/PIDS  
2015 Created Module for Pediatric Infectious Diseases on-line curriculum  
2016 Created Module for Pediatric Transplant Infectious Diseases on-line curriculum  
2017- Core curriculum for Pediatric Fellows, 3-year ACGME and ABP driven curriculum

**PUBLICATIONS (29 total)**

**Peer reviewed articles (26 total)**

1. Chen, S., West, R.W., Jr., Johnson, S.L., Gans, H., Kruger, B. and Ma, J. TSF3, A Global Regulatory Protein that Silences Transcription of Yeast GAL genes, also Mediates Repression by Alpha 2 Repressor and is Identical to SIN4. Molecular and Cellular Biology. 13:831-40, 1993. PMID:8423805
2. Chen, S., West, R.W., Jr., Ma, J., Johnson, S.L., Gans, H. and Woldehawariat, G. TSF1 to TSF6, Required for Silencing the *Saccharomyces cerevisiae* GAL Genes, are Global Regulatory Genes. Genetics. 134: 701-16, 1993. PMID: 8349104
3. Gans, H.A., Arvin, A.M., Galinus, J., Logan, L., DeHovitz, R. and Maldonado, Y. Deficiency of the Humoral Immune Response to Measles Vaccine in Infants Immunized at Age 6 Months. Journal of the America Medical Association. 280:527-32, 1998. PMID: 9707142
4. Gans, H.A., Maldonado, Y., Yasukawa, L.L., Beeler, J., Rinki, M.M., DeHovitz, R., and Arvin, A.M. Interleukin 12, Interferon  $\gamma$  and T cell Proliferation to Measles in Immunized Infants. Journal of Immunology. 162: 5569-75, 1999. PMID: 10228039
5. Shetty A, Gans H, So S, Millan M, Arvin A, Gutierrez K, Intravenous Ribavirin Therapy for Adenovirus Pneumonia. Pediatric Pulmonology. 29:69-73, 2000. PMID: 1061378
6. Gans, H.A., Yasukawa, L.L., Rinki, M.M., DeHovitz, R., Forghani, B. Beeler, J, Audet, S., Maldonado, Y and Arvin, A.M. Immune Response to Measles and Mumps Vaccination of Infants at 6, 9, and 12 Months. Journal of Infectious Diseases. 184:817-26, 2001. PMID: 11528592
7. Webster G, Schiffman J, Dosanjh A, Amieva M, Gans H, Sectish T, Jarisch-Herxheimer Reaction Associated with Ciprofloxacin Administration for Tick-borne Relapsing Fever. Pediatric Infectious Disease Journal. 21: 571-3, 2002. PMID: 12182387
8. Wong-Chew R, Islas-Romero R, Garcia-Garcia L, Beeler J, Audet S, Santos-Preciado J, Gans H, Lew-Yasukawa L, Maldonado Y, Arvin A and Valdespino-Gomez J. Induction of Humoral and Cellular After

- Aerosol or Subcutaneous Administration of Measles Vaccine as a Primary Dose to 12 Month Old Children. Journal of Infectious Disease. 189:254-7, 2004. PMID: 14722890
9. Gans, H, Yasukawa L., Alderson, A., Rinki M., DeHovitz R., Maldonado Y, Beeler J, Audet S, Arvin A. Humoral and Cell-Mediated Immune Responses To an Early Two-Dose Measles Vaccination Regimen in the United States. Journal of Infectious Disease. June 15: 189, 2004. PMID:15195246
  10. Gans, H, Yasukawa L., Alderson, A., Rinki M., DeHovitz R., Maldonado Y, and Arvin A. T cell Immunity to Measles Viral Proteins in Infants and Adults after Measles Immunization. Viral Immunology. 17:298-307, 2004. PMID: 15279707
  11. Wong-Chew R, Islas-Romero R, García-García L, Beeler J, Audet S, Santos-Preciado J, Gans H, Lew-Yasukawa L, Maldonado Y, Arvin A and Valdespino-Gomez J. Immunogenicity of Aerosol Measles Vaccine Given as the Primary Measles Immunization to Nine-month-old Mexican Children. Vaccine. 24:683-690, 2006. PMID: 16154241
  12. Nair, N, Gans, H, Yasukawa L, Long-Wagar, A, Arvin A, Griffin, D. Age-dependent Differences in IgG Isotype and Avidity Induced by Measles Vaccine During the First Year of Life. Journal of Infectious Disease. 196:1339- 45, 2007. PMID: 1792239
  13. Wakim, R, Yasukawa L, Sung, P, Arvin A, Gans H, Immune Response To Mumps Vaccine In Adults Who Were Vaccinated in Childhood. Journal of Infectious Disease. 197:1669-75, 2008. PMID: 18419345
  14. Michalik DE, Steinberg SP, Larussa PS, Edwards KM, Write PF, Arvin AM, Gans HA, Gershon AA. Primary Vaccine Failure After 1 Dose of Varicella Vaccine in Healthy Children. Journal of Infectious Disease. 197:944- 9, 2008. PMID: 18419532
  15. Gans HA, Yasukawa LL, Zhang CZ, Wakim RH, Rinki M, Dehovitz R, Arvin AM. Effects of Interleukin-12 and Interleukin-15 on Measles-specific T-cell Responses in Vaccinated Infants. Viral Immunology. 21:163-72, 2008. PMID:18419254
  16. Hong, D, Bernstein, M, Smith, C, Gans, H, Shaw, R, Eosinophilic Meningoencephalitis: Psychiatric Presentation and Treatment. International Journal of Psychiatry in Medicine, 2008;38(3):287-95. PMID:19069573
  17. Wakim, R, Yasukawa L, Sung, P, Fang M, Sullivan B, Rinky M, DeHovitz R, Arvin A, Gans H. Age Related Expansion in the Frequency of CD4+ T cells that Produce IFN- $\gamma$  in Response to Staphylococcal Enterotoxin B during Childhood. Journal of Infectious Disease. 200(12):1921-7, 2009 PMID: 19909079
  18. Klein N, Gans H, Sung P, Lew L, Johnson J, Sarafanov A, Chumakov K, Hansen J, Black S, Dekker C. Preterm Infants' T Cell Response to Inactivated Poliovirus Vaccine. Journal of Infectious Disease. 201(2):214-22, 2010. PMID: 20017631
  19. PrabhuDas, M Adkins, B, Gans, H, King C, Levy O, Ramilo, O, Siegrist, Challenges in Infant Immunity: implications for responses to infection and vaccines. Nature Immunology 12(3): 189-94, 2011 PMID:21321588
  20. Limbago b, Rasheed J, Anderson K, Zhu W, Kitchel B, Watz N, Munro S, Gans H, Banaei N, Kallen A, IMP-Producing Carbapenem-resistant *Klebsiella pneumoniae* in the United States. Journal of Clinical Microbiology Dec;49(12):4239-45, 2011 PMID:21998425
  21. Gans HA, Yasukawa L, Sung P, Sullivan B, Dehovitz R, Audet S, Beeler J, Arvin AM. Measles Humoral and Cell Mediated Immunity in 5-10 year old Children After Primary Measles Immunization Administered at 6 or 9 Months of Age. Journal of Infectious Disease, 2013 Feb 15;207(4):574-82 PMID:23300162
  22. Kay A, Itoh M, Valdez J, Chen S, Mathew R, Gans, H. Pleural Effusion and Fever in an Immunocompromised Patient: Journal of the Pediatric Infectious Diseases Society, Mar; 4(1):e6-9, 2015 PMID:26407371
  23. Itoh M, Kann D, Schwenk H, and Gans, H Fever and Renal Failure in a Child with DiGeorge Syndrome and Tetralogy of Fallot: Journal of the Pediatric Infectious Diseases Society, Eadvance publication May 19, 2015 PMID: 26407263
  24. Mahony T, Sidell D, Gans H\*, Brown K, Farhadian B, Gustafson M, Sherr J, Thienemann M, Frankovich J. Improvement of psychiatric symptoms in youth following resolution of sinusitis. Int J Pediatr Otorhinolaryngol. 2017 Jan;92:38-44. PMID:28012531  
\*participated in review of data and involved with data analysis and assistance with authorship
  25. Mahony T, Sidell D, Gans H\*, Cooperstock M, Brown K, Cheung JM, Farhadian B, Gustafson M, Thienemann M, Frankovich J. Palatal Petechiae in the Absence of Group A Streptococcus in Pediatric Patients with Acute-Onset Neuropsychiatric Deterioration: A Cohort Study. J Child Adolesc Psychopharmacol. 2017 Sep;27(7):660- 666. PMID: 2838752

*\*participated in review of data and involved with data analysis and assistance with authorship*

26. McCarthy EK, Ogawa MT, Hopper RK, Feinstein JA, **Gans HA**. Central line replacement following infection does not improve reinfection rates in pediatric pulmonary hypertension patients receiving intravenous prostanoid therapy. *Pulm Circ*. 2018;8(1): PMID:29309237

#### **Invited Peer reviewed articles (3 total)**

1. **Gans H**, DeHovitz R, Forghani B, Beeler J, Maldonado Y, Arvin A, Measles and Mumps Vaccination as a Model to Investigate the Developing Immune System: Passive and Active Immunity during the First Year of Life. *Vaccine*. 21:3398-3405, 2003. PMID: 12850348
2. **Gans, HA**. The Status of Live Viral Vaccination in Early Life. *Vaccine*. 2013 May 17;31(21):2531-7 PMID: 23026688
3. **Gans HA**, Maldonado YM. Loss of Passively Acquired Maternal Antibodies in Highly Vaccinated Populations: An Emerging Need to Define the Ontogeny of Infant Immune Responses. *Journal of Infectious Disease*. Jul;208(1):1-3, 2013, PMID:23661801

#### **BOOK CHAPTERS (6 total)**

##### **Invited (6 total)**

1. **Gans, H**, Bacterial sepsis in the neonate. In *Fetal and Neonatal Brain Injury*, 3<sup>rd</sup> Edn, Cambridge University Press, 2003, 314-332, revised for 4<sup>th</sup> Edn, 2008, revised for 5<sup>th</sup> Edn 2017
2. **Gans, H** and Lewis, D, Hemophagocytic Lymphohistiocytosis and Macrophage Activation Syndrome. In *Pediatric Infectious Diseases*, 3<sup>rd</sup> Edn, Churchill Livingstone Elsevier, 2008, 113-117, revised for 4<sup>th</sup> Edn, 2011, revised for 5<sup>th</sup> Edn, 2016
3. **Gans, H**, Measles, American Academy of Pediatrics. In: Kimberlin, DW, ed. Red Book: 2015 Report of the Committee on Infectious Diseases. 30<sup>th</sup> Edn. Elk Grove Village, IL; American Academy of Pediatrics: 535-547, revised for 31<sup>st</sup> Edn, 2016
4. **Gans, H**, Maldonado Y, Clinical manifestations and diagnosis of measles. In: Baron EL, ed. UpToDate, 2015, 2017
5. **Gans, H**, Maldonado Y, Epidemiology and transmission of measles. In: Baron EL, ed. UpToDate, 2015, 2017
6. **Gans, H**, Maldonado Y, Prevention and treatment of measles. In: Baron EL, ed. UpToDate, 2015, 2017

##### **Book Chapters submitted**

1. Mason, W and **Gans H**, Measles in *Nelson Textbook of Pediatrics*. 21<sup>st</sup> Edn. Philadelphia, PA: Elsevier, 2018
2. Mason, W and **Gans H**, Rubella in *Nelson Textbook of Pediatrics*. 21<sup>st</sup> Edn. Philadelphia, PA: Elsevier, 2018
3. Mason, W and **Gans H**, Mumps in *Nelson Textbook of Pediatrics*. 21<sup>st</sup> Edn. Philadelphia, PA: Elsevier, 2018

#### **ABSTRACTS (23 of 33 total)**

1. **Gans, H**, Zhang Z., Yasukawa L., DeHovitz R., Arvin, A. Diminished IL-12 and IL-15 from Infant T cell Responses to Measles Vaccine-Is it Antigen Presentation? IDSA, 2005, poster
2. Hanna Wakim, R., Yasukawa L., Sung, P., Rinki M, Sullivan, B., DeHovitz R., Arvin, **Gans, H**. Infant CD4+ T Cells Have Limited Interferon-gamma Production Compared with Adults in Responses to *Staphylococcus aureus* Enterotoxin B, Society of Pediatric Research-Pediatric Academic Society, 2006, poster
3. Hanna Wakim, R., Yasukawa L., Sung, P., Sullivan, B., Arvin, **Gans, H**. Immune Response to Mumps Vaccine in Adults Who Were Vaccinated in Childhood, Society for Pediatric Research-Pediatric Academic Society, 2007, poster
4. **Gans H**, Yasukawa L., Sung P., Sullivan B., DeHovitz R., Beeler J., Audet S., Maldonado Y., and Arvin A., Measles Immunity In Children After An Early Two-Dose Vaccine Regimen, Society for Pediatric Research-Pediatric Academic Society, 2008, poster
5. Klein N, **Gans H**, Sung P, Lew L, Johnson J, Arvin A, Black S, M.D.<sup>2</sup> Dekker C. Preterm Infants' T Cell Response to Inactivated Poliovirus Vaccine, Society for Pediatric Research-Pediatric Academic Society, 2008, poster
6. **Gans H**, Hanna Wakim, R Yasukawa L., Sung P., Sullivan B., DeHovitz R and Arvin A. Antigen Presentation in Infancy Correlates with Measles-Specific T-Cell Response to Vaccination, IDSA, 2008, poster
7. Dyner, LL, Lew L, Sung P, DeHovitz R, Arvin A, and **Gans H**. Memory T cell Function in Infants, Children and Adults, Society for Pediatric Research-Pediatric Academic Society, 2009, poster

8. Dyner L, Yasukawa L, Sung P, **Gans H**. ELISPOT T-cell Response to Measles and Varicella Zoster Virus in Adults, Children, and HIV-infected Children. Infectious Diseases Society of America, 2010, poster
9. Hanna Wakim, R., Sung, P, Yasukawa L., Steinberg, S, Gershon, A, **Gans, H**. T and B cell Responses After One and Two Varicella Vaccine Doses Administered to Children at 12 and 18 Months of Age, Infectious Diseases Society of America, 2010, poster
10. **Gans HA**, Yasukawa L, Sung P, Sullivan B, Dehovitz R, Audet S, Beeler J, Arvin AM. Persistence of Measles Immunity in 5-10-year-old Children Who Received an Early Two Dose Measles Immunization Regimen. Infectious Diseases Society of America, ID week 2012, San Diego, CA, oral presentation.
11. Dyner L, Nathoo K, Mason P, Yasukawa L, Sung P, Beeler J., Audet S, **Gans H**, Maldonado Y. Immunogenicity of the Measles Vaccine in HIV-infected and HIV-exposed Uninfected Infants in Zimbabwe, Infectious Diseases Society of America, IDWeek 2012, San Diego, CA, poster
12. Wong J, Yasukawa L, Kobayashi S, Zolopa A, **Gans HA**, Despite Highly Active Antiretroviral Therapy HIV+ adults have a skewed differentiation of T cell populations and decreased CD4+ T cell Immunity to Measles and Varicella Antigens, IDWeek 2013, San Francisco, CA, poster
13. Itoh M, Petru A, **Gans HA**. Effects of Highly Active Antiretroviral Therapy on Innate and Adaptive Immunity in HIV Infected Children, IDWeek 2015, San Diego, CA, poster
14. Seddik T, Nespor C, Tian L, Kerner J, Maldonado Y and **Gans H**. Risk Factors for Bloodstream Infection in Children with Intestinal Insufficiency on Parenteral Nutrition, IDWeek 2017, San Diego, CA, poster
15. Del Valle Mojica C, Chen SF, **Gans H**. Host factors and clinical spectrum of Adenovirus infection in pediatric solid organ transplantation: a closer look at the infant, the toddler and the child. American Transplant Congress 2018, American Society of Transplantation, June 2-6, 2018, Seattle WA, poster
16. Dalle Oro, L, Boothroyd, D, Chen SF, **Gans H**. High-risk Populations and Time After Transplant for Development of Posttransplant Lymphoproliferative Disease After Solid Organ Transplant in Pediatric Recipients. International Pediatric Transplant Association, 2018, San Jose, Costa Rica, poster
17. Del Valle Mojica C, **Gans H**, Chen SF. Time to infection and high levels of adenoviral DNAemia predict cidofovir use after solid organ transplantation in pediatric recipients. International Pediatric Transplant Association, 2018, San Jose, Costa Rica, talk
18. Del Valle Mojica C, Chen SF, **Gans H**. A New Perspective About Disseminated Adenovirus Infection and Its Outcomes in Pediatric Solid Organ Transplantation, IDweek, 2018, San Francisco, CA, poster
19. Dalle Oro, L, Boothroyd, D, Chen SF, **Gans H** Risk Factors for Disseminated Adenovirus Infection and Its Outcomes in Pediatric Solid Organ Transplantation, IDweek, 2018, San Francisco, CA, poster
20. Zerbo O, Modaressi S, Goddard K, Lewis N, Bok K, **Gans H**, Klein N, Parental Risk Factors for Fever 7–10 Days after the First Dose of Measles-containing Vaccines, IDweek, 2018, San Francisco, CA, poster
21. Seddik T, Maldonado Y, Nespor C, Kerner J, **Gans H**. Microbiology and Outcome of Bloodstream Infections in Children with Intestinal Insufficiency, IDweek, 2018, San Francisco, CA, poster
22. Bio L, Schwenk H, Chen S, **Gans, H**. Identification of Solid Organ Transplant Antimicrobial Stewardship Opportunities in Pediatric Liver Transplant Patients. IDweek, 2018, San Francisco, CA, poster
23. Del Valle Mojica C., **Gans H.**, Chen S. Adenovirus Relationship to Rejection: Two sides of the coin. International Pediatric Transplant Association, 20198, Vancouver, Canada, talk

## **WORKSHOPS (8 total)**

### **Peer reviewed (8 total)**

1. Lee L, Loutit C, Andrews J, Blankenburg B, MPH, Blecharczyk E, **Gans H**, Rassbach C, Sakai D. Say What you Mean and Write What you Say: Giving Good Verbal Feedback and Turning Feedback into Written Evaluations Pediatric Education Day, Stanford CA, Oct 2017
2. Bone M, Kesselheim J, Myers A, McGann K, **Gans H**. Using Fellow Well-Being Programs to Create Institutional Climate Change. Association of Pediatric Program Directors, Atlanta, CA, March 2018
3. Halpern-Felsher B, Herman B, Klasner A, McGann K, Myers A, Mason K, Weiss P, **Gans H**. Building Bridges: Developing a Core Curriculum for Pediatric Sub-Specialty Fellowships. Association of Pediatric Program Directors, Atlanta, CA, March 2018
4. Maurer M, Goldstein R, Valenzuela Riveros L, Honda A, Brooks M, **Gans H**, Mendoza F, Vaks Y, Yemane L. Death by a Thousand Paper Cuts: Microaggressions and Their Effects on the Learning Climate. Association of Pediatric Program Directors, Atlanta, CA, March 2018



5. Halpern-Felsher B, Herman B, Klasner A, McGann K, Myers A, Mason K, Weiss P, Gans H. Building Bridges: Developing a Core Curriculum for Pediatric Sub-Specialty Fellowships. Association of Pediatric Program Directors, Forum for Fellowship Directors, Pediatric Academic Society, Toronto, CA May 2018
6. Whitgob E, Goldstein R, Salem S, Purdie D, Walz A, Lewis C, Lehman D, Fleming G, Conrad S, Weiss P, Blankenburg B, Gans H. Beyond Free Food: The Value of Building Fellow Community. Association of Pediatric Program Directors, Forum for Fellowship Directors, Pediatric Academic Society, Toronto, CA May 2018
7. Lee L, Loutit C, Andrews J, Blankenburg B, MPH, Blecharczyk E, Gans H, Rassbach C, Sakai D. Say What you Mean and Write What you Say: Giving Good Verbal Feedback and Turning Feedback into Written Evaluations. Pediatric Academic Society, Toronto, CA May 2018
8. Maurer M, Goldstein R, Valenzuela Riveros L, Honda A, Brooks M, Gans H, Mendoza F, Vaks Y, Yemane L. Death by a Thousand Paper Cuts: Microaggressions and Their Effects on the Learning Climate. Pediatric Academic Society, Baltimore, MD, 2019

#### **INVITED PRESENTATIONS (21 of 43 total)**

1. "Challenges of Neonatal and Infant Vaccine: understanding the Developing Immune System", Pediatric Grand Rounds, Lucile Salter Children's Hospital at Stanford, CA, 2010
2. "Development of Immunity to Viral Infections in the Infant", Challenges in Infant Immunology Workshop, National Institutes of Health, Bethesda, MD, 2010
3. "Periodic Fever Syndromes", Pediatric Infectious Diseases: Clinical Challenges in Primary Care CME Conference, Stanford University, 2010
4. "Hot Topics in Pediatric Infectious Diseases", CME conference, Stanford, CA, 2011
5. "The Challenges of Infant Immunization", Infectious Diseases Research Retreat, Stanford University Medical Center, Stanford, CA, 2012
6. The Physician Scientist: A New Model for the 21<sup>st</sup> Century." Fellows Day Platform speaker, Infectious Diseases Society of America, ID week 2012, San Diego, CA, 2012
7. "Measles Immunology", Stanford University, undergraduate sophomore college, Stanford University, Stanford, CA, 2012
8. "The Tale of Two Viruses", Transplant Symposium, Stanford University, Stanford, CA, 2014
9. Vaccines, What's Hot", International Pediatric Transplant Association, San Francisco, CA, 2015
10. "Hot Topics in Pediatric Infectious Diseases", 23<sup>rd</sup> Annual Pediatric Update CME conference, Stanford, CA, 2015
11. "Top 10 Papers in Transplant ID", 3<sup>rd</sup> Annual St Judes/PIDS Pediatric Transplant Symposium, Memphis, 2016
12. "The Many Faces of Fever in The Emergency Department", 21<sup>st</sup> Annual Pediatric Emergency Care, Conference, Dominican Hospital, Santa Cruz, CA, 2016
13. "From Skin to Bones, Common Infections that Present to the Emergency Department, 21<sup>st</sup> Annual Pediatric Emergency Care, Conference, Dominican Hospital, Santa Cruz, CA, 2016
14. "Hot Topics in Pediatric Infectious Diseases", 24<sup>th</sup> Annual Pediatric Update CME conference, Stanford, CA, 2016
15. "Molecular Mechanisms Regulating Infant Vaccine Responses", HIVR4P satellite session, "Vaccine Elicited Immunity in the Pediatric Immune System", Chicago, IL, 2016
16. "Insight into Immunosuppression and Pediatric Infections", Platform Session, IDWeek, New Orleans, LA, 2016
17. "Bacterial Infections in the Pediatric Transplant Population", 4<sup>th</sup> Annual St Judes/PIDS Pediatric Transplant Symposium, Memphis, TN, 2017
18. "Bacterial Infections in the Pediatric Transplant Population, 5<sup>th</sup> Annual St Judes/PIDS Pediatric Transplant Symposium, Memphis, TN, 2018
19. "Infectious Complications of Immunomodulators and Pediatrics", Platform Session, IDWeek, San Francisco, CA, 2018
20. "Demystifying the Interview Process", Fellows Day, IDWeek, San Francisco, CA, 2018
21. "EBV controversies in Pediatric Transplantation", Moderator, 6<sup>th</sup> Annual St Judes/PIDS Pediatric Transplant Symposium, Memphis, TN, 2019