MICHAEL H. HSIEH

EDUCATION AND TRAINING

2007-2009	Texas Children's Hospital, Baylor College of Medicine	Houston, TX
2003-2007	Fellowship, Pediatric Urology University of California San Francisco	San Francisco, CA
2003-2007	Residency, Urology	San Francisco, CA
2002-2003	University of California San Francisco	San Francisco, CA
2001-2002	Residency, Surgery University of California San Francisco	San Francisco, CA
1994-2001	Internship, Surgery Thomas Jefferson University M.D., 2001	Philadelphia, PA
1989-1993	Ph.D., Microbiology and Immunology, 2001 Stanford University B.S., Biology 1993	Stanford, CA

PROFESSIONAL EXPERIENCE

2009-	Stanford School of Medicine Assistant Professor, Department of Urology, University Tenure Line	Stanford, CA
2000-2001	Children's Hospital of Philadelphia Children's Institute for Surgical Sciences Medical student	Philadelphia, PA
1994-1999	Thomas Jefferson University Kimmel Cancer Institute 1996-1999 Ph.D. student 1994-1996 Medical student	Philadelphia, PA
1993-1994	University of Pittsburgh School of Medicine Thomas E. Starzl Transplantation Institute Research specialist	Pittsburgh, PA
1989-1993	University of Pittsburgh School of Medicine Special Pathogens Laboratory Undergraduate student	Pittsburgh, PA

PROFESSIONAL AFFILIATIONS

2003-present	American Urological Association
0000 0044	Active Member
2009-2011	Western Section, American Urological Association
	Active Member
2008-2011	American Association of Clinical Urologists
	Member
2008	International Pediatric Endosurgery Group
	Member, Surgeon-in-Training
2008-present	Society of Pediatric Urology
	Member
2009-2011	American College of Surgeons

Associate Fellow

2008-2012 American Academy of Pediatrics

Post-Residency Training Member, Section of Urology

2009-present Pacific Rim Association of Pediatric Urology Surgeons

Member

2009-present Stanford Bio-X Program

Faculty Affiliate

2009-present Stanford Clayman Institute for Gender Research

Faculty Affiliate

2009-present Stanford Interdisciplinary Program in Immunology

Faculty Affiliate

2009-present Stanford Institute for Immunity, Transplantation, and Infection

Faculty Affiliate

2009-present Stanford NCI-Designated Cancer Center

Associate Member

2009-present American Association of Pediatric Urologists

Member

2009-present Stanford Global Health Interest Group

Member

2010-present American Society of Tropical Medicine and Hygiene

Member

2011 National Kidney Foundation

Member

2012- Stanford Center for Innovation in Global Health, Affiliate

LICENSURE

2007-2009 Texas Medical Board

Licensee

2003-present Medical Board of California

Licensee

2012-present American Board of Urology

Diplomate, with Subspecialty Certification in Pediatric Urology

CLINICAL ACTIVITIES

Attending, Pediatric Urology Service, Lucile Salter Packard Children's Hospital

Have continuously served as one of four attendings on service since August 2009, covering approximately 45-50 full operating day blocks/year and serving as attending for approximately one full day of clinic each week. Responsible for supervision of four to eight urology residents (PGY-3 to PGY-6 [chief residents]), occasional pediatric urology fellow, and occasional students per year. On call ~122 days/year (~244 days during 2010-2011 academic year).

PRO BONO ACTIVITIES

Volunteer Surgeon, International Volunteers in Urology and Medicine

Weeklong 2010 Hypospadias Workshop in San Pedro Sula, Honduras. With local pediatric surgeons, helped evaluate >80 patients in clinic, personally performed ~20 operations.

Weeklong 2011 Hypospadias Workshop and Kenya Association of Urological Surgeons Meeting in Nairobi, Kenya. With local pediatric surgeons, personally performed 10 complex hypospadias and related operations.

HONORS AND AWARDS

2013-	Healthgrades Honor Roll
	Recognized Doctor
2013-	Best Doctors in America
2010	American Academy of Pediatrics, Urology Section
	1 st Runner-Up, Best Basic Science Poster
2010	Lucile Salter Packard Children's Hospital
	Recognition of Service Excellence (R.O.S.E.) Award
2008	European Society of Pediatric Urology-American Academy of Pediatrics
	Recipient, Travel Fellowship for 2009 ESPU Meeting
2008	American Urological Association
	Winner, Ambrose/Reed Gyrus ACMI Socioeconomics Prize Essay Contest
2008	Urologic Diseases in America Symposium
	Recipient, Travel Fellowship
2006	American Academy of Pediatrics, Urology Section
	Finalist, Best Basic Science Poster
2006	Western Section, American Urological Association
	2 nd place, Miley B. Wesson/Gyrus ACMI Resident Essay Contest
2006	Western Section, American Urological Association
	Winner, Earl F. Nation Resident Scholarship Award, UCSF
2006	Northern California Urology Resident Research Symposium
	1st place, Basic Science Section
2006	American Urological Association
	Winner, Ambrose/Reed Gyrus ACMI Socioeconomics Prize Essay Contest
2005	National Institute of Diabetes and Digestive and Kidney Diseases
	T32 Research Fellowship, Training Grant in Academic Nephrology Program
2005	Northern California Urology Resident Research Symposium
	3 rd place, Basic Science Section
2004	American Academy of Pediatrics, Urology Section
	Finalist, Best Basic Science Poster
2002	University of California San Francisco
	THANKS Star Award
2001	Jefferson Medical College
	The Robert J. Mandle Memorial Graduation Award, for outstanding research
	in microbiology or immunology
2001	Jefferson Medical College
	The Hyman Menduke Research Prize
2001	Thomas Jefferson University Alumni Association
	Alumni Thesis Award
2001	American Society of Blood and Marrow Transplantation
	Ernest McCulloch and James Till Award, for best basic science paper by a
	new investigator
1999	Sigma Xi
	William Potter Student Research Prize

1999	Thomas Jefferson University
	Alumni Travel Fellowship, American Society of Blood and Marrow
	Transplantation Meeting
	National Institutes of Health
	T32 Predoctoral Fellowship, Training Grant in Cancer Immunology
1996-1999	Thomas Jefferson University
1006	Dunglison Scholarship, M.D./Ph.D. Program American Heart Association
1996	Benjamin and Ray Sonnenfeld Memorial Research Fund
1995	Alpha Omega Alpha
1000	Medical Student Research Fellowship
	modical Stadent Nessearch Followship
EDITORIAL	APPOINTMENTS
2009-12	Cochrane Renal Group (Cochrane Collaboration), ad hoc reviewer
2007-12	Journal of Urology, ad hoc reviewer
2008	Human Reproduction, ad hoc reviewer
2008	Expert Review of Pharmacoeconomics and Outcomes Research, <i>ad hoc</i>
	reviewer
2008	Canadian Journal of Urology, ad hoc reviewer
2008	Archives of Physical Medicine and Rehabilitation, ad hoc reviewer
2008	Asian Journal of Andrology, <i>ad hoc</i> reviewer
2008	International Journal of Impotence Research: Journal of Sexual Medicine, ad hoc
2000	reviewer
2009	Environmental Health Perspectives, ad hoc reviewer
2009-2012	Urologic Oncology, ad hoc reviewer
2010	PLoS Pathogens, ad hoc reviewer
2010	Human Pathology, ad hoc reviewer
2010	Annals of Urology, ad hoc reviewer
2010	Journal of Bacteriology and Parasitology, ad hoc reviewer
2010	Journal of Visualized Experiments, ad hoc reviewer
2010	World Journal of Pediatrics, <i>ad hoc</i> reviewer
2010	Colloids and Surfaces B: Biointerfaces, ad hoc reviewer
	Journal of Pediatrics, ad hoc reviewer
2010	ISRN Urology, Editorial Board member
2010	Gut Microbes, ad hoc reviewer
2011	Journal of Parasitology, ad hoc reviewer
2011	Journal of Medical Genetics, ad hoc reviewer
2011	Journal of the American Association for Laboratory Animal Science, ad hoc
	reviewer
2011	Applied and Environmental Microbiology, ad hoc reviewer
2011	American Journal of Infection Control, ad hoc reviewer
2011	Neurourology and Urodynamics, <i>ad hoc</i> reviewer
2011	PLoS One, ad hoc reviewer
2012	ad hoc reviewer for: Urology, Journal of Pediatric Urology, Neurourology and
_•	Urodynamics, American Journal of Infection Control, Journal of Urology, PLoS
	One, Molecular and Biochemical Parasitology, Journal of Clinical Pathology
2012-present	World Journal of Clinical Urology, Editorial Board Member
•	ad hoc reviewer for PLOS Neglected Tropical Diseases
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ACADEMIC AND CLINICAL COMMITTEE PARTICIPATION

2008-2009 Human Microbiome Project, Baylor College of Medicine. Clinical Advisory Group Member 2008 Tengion Investigator 2009-Pediatric Exchange Database in Urology (PEDiUro) Consortium present Member 2009-Stanford Institute for Immunity, Transplantation, and Infection Working Group for the Role of Chronic Infection in Human Disease, Group present Leader Stanford Interdisciplinary Program in Immunology 2010-Interviewer for graduate student applicants present 2011-Stanford Immunology Admissions application reader present Lucile Salter Packard Children's Hospital Care Improvement 2010-2012 Committee Member Prenatal Program, Pediatric Urologic Clinic, Lucile Packard Children's 2010-Hospital present Administrative Director 2010-Minimally Invasive Surgery Program, Pediatric Urologic Clinic, Lucile present Packard Children's Hospital Administrative Director Stone and Metabolism Program, Pediatric Urologic Clinic, Lucile 2010-2011 Packard Children's Hospital Administrative Director 2011 American Academy of Pediatrics, Urology Section Basic Science Abstract Reviewer Oral Defense Committee (Candidate: Rinki Kapoor, Biophysics) 2011 Committee Chair 2011 **Oral Defense Committee** (Candidate: Xianne Leong, Immunology) Committee Chair Lucile Salter Packard Children's Hospital Fetal Center Case 2010present Conference Participant 2011 American Urological Association Abstract Reviewer, Pediatrics: Congenital Anomalies – Kidney & Ureter, Team 33 2011 American Academy of Pediatrics, Urology Section Basic Science Session Co-Moderator 2011 **American Society of Tropical Medicine and Hygiene**

Schistosomiasis: Immunology/Pathology Session Co-Moderator

2012- present	Stanford University School of Medicine Medical School Admission Application Reader
2012	American Society of Tropical Medicine and Hygiene ACMCIP-Cellular Parasitology I Session Co-Moderator
2012	American Society of Tropical Medicine and Hygiene Schistosomiasis-Immunology Session Co-Moderator
2013	Woods Hole Immunoparasitology Meeting Judge, Best Podium and Poster Presentations
2013	Stanford Woods Institute for the Environment Faculty Affiliate

PATENTS

Provisional Patent: "Methods and System for Surgical Instrument Control". Co-Inventor. EFS ID 9895143. Application 61/476,222

Provisional Patent: "System and Methods for Measuring Blood Loss". Co-Inventor. Application 61/506,082 (pending).

PEER-REVIEWED PUBLICATIONS

- 1. Yee YC, Muder RR, **Hsieh MH**, Lee TC. Molecular epidemiology of endemic ciprofloxacin-susceptible and -resistant Enterobacteriaceae. Infect Control Hosp Epidemiol. 1992;13(12):706-10. PMID: 1337751.
- 2. **Hsieh MH**, Yu CM, Yu VL, Chow JW. Synergy assessed by checkerboard. A critical analysis. Diagn Microbiol Infect Dis. 1993;16(4):343-9. PMID: 8495592.
- 3. Lu L, **Hsieh M**, Oriss TB, Morel PA, Starzl TE, Rao AS, et al. Generation of DC from mouse spleen cell cultures in response to GM-CSF: immunophenotypic and functional analyses. Immunology. 1995;84(1):127-34. PMCID: 1415186. PMID: 7890296.
- 4. **Hsieh MH**, Korngold R. Differential use of FasL- and perforin-mediated cytolytic mechanisms by T-cell subsets involved in graft-versus-myeloid leukemia responses. Blood. 2000;96(3):1047-55. PMID: 10910921.
- 5. **Hsieh MH**, Patterson AE, Korngold R. T-cell subsets mediate graft-versus-myeloid leukemia responses via different cytotoxic mechanisms. Biol Blood Marrow Transplant. 2000;6(3):231-40. PMID: 10871148.
- 6. **Hsieh MH**, Varadi G, Flomenberg N, Korngold R. Leucyl-leucine methyl ester-treated haploidentical donor lymphocyte infusions can mediate graft-versus-leukemia activity with minimal graft-versus-host disease risk. Biol Blood Marrow Transplant. 2002;8(6):303-15. PMID: 12108916.

- 7. Peranteau WH, Hayashi S, **Hsieh M**, Shaaban AF, Flake AW. High-level allogeneic chimerism achieved by prenatal tolerance induction and postnatal nonmyeloablative bone marrow transplantation. Blood. 2002;100(6):2225-34. PMID: 12200389.
- 8. Hayashi S, **Hsieh M**, Peranteau WH, Ashizuka S, Flake AW. Complete allogeneic hematopoietic chimerism achieved by in utero hematopoietic cell transplantation and cotransplantation of LLME-treated, MHC-sensitized donor lymphocytes. Exp Hematol. 2004;32(3):290-9. PMID: 15003315.
- 9. **Hsieh MH**, Nguyen HT. Molecular mechanism of apoptosis induced by mechanical forces. Int Rev Cytol. 2005;245:45-90. PMID: 16125545.
- 10. Joel AB, Rubenstein JN, **Hsieh MH**, Chi T, Meng MV, Stoller ML. Failed percutaneous balloon dilation for renal access: incidence and risk factors. Urology. 2005;66(1):29-32. PMID: 15992884.
- 11. **Hsieh MH**, Perry V, Gupta N, Pearson C, Nguyen HT. The effects of detethering on the urodynamics profile in children with a tethered cord. J Neurosurg. 2006;105(5 Suppl):391-5. PMID: 17328264.
- 12. Nguyen HT, **Hsieh MH**, Gaborro A, Tinloy B, Phillips C, Adam RM. JNK/SAPK and p38 SAPK-2 mediate mechanical stretch-induced apoptosis via caspase-3 and -9 in NRK-52E renal epithelial cells. Nephron Exp Nephrol. 2006;102(2):e49-61. PMID: 16179830.
- 13. **Hsieh MH**, Grantham EC, Liu B, Macapagal R, Willingham E, Baskin LS. In utero exposure to benzophenone-2 causes hypospadias through an estrogen receptor dependent mechanism. J Urol. 2007;178(4 Pt 2):1637-42. PMID: 17707034.
- 14. **Hsieh MH**, Meng MV. Decision analysis and Markov modeling in urology. J Urol. 2007;178(5):1867-74. PMID: 17868735.
- 15. **Hsieh MH**, Meng MV, Turek PJ. Markov modeling of vasectomy reversal and ART for infertility: how do obstructive interval and female partner age influence cost effectiveness? Fertil Steril. 2007;88(4):840-6. PMID: 17544418.
- 16. **Hsieh MH**, Swana HS, Baskin LS, Meng MV. Cost-utility analysis of treatment algorithms for moderate grade vesicoureteral reflux using Markov models. J Urol. 2007;177(2):703-9; discussion 9. PMID: 17222660.
- 17. Shiroyanagi Y, Liu B, Cao M, Agras K, Li J, **Hsieh MH**, et al. Urothelial sonic hedgehog signaling plays an important role in bladder smooth muscle formation. Differentiation. 2007;75(10):968-77. PMID: 17490411.
- 18. **Hsieh MH**, Breyer BN, Eisenberg ML, Baskin LS. Associations among hypospadias, cryptorchidism, anogenital distance, and endocrine disruption. Curr Urol Rep. 2008;9(2):137-42. PMID: 18419998.
- 19. **Hsieh MH**, Meng MV, Baskin LS. Outcomes and cost analysis of pyeloplasty for antenatally diagnosed ureteropelvic junction obstruction using Markov models. Urology. 2008;72(4):794-9. PMID: 18674802.

- 20. **Hsieh MH**, Tan AG, Meng MV. Medical malpractice in American urology: 22-year national review of the impact of caps and implications for contemporary practice. J Urol. 2008;179(5):1944-9; discussion 9. PMID: 18355843.
- 21. **Hsieh MH**, Versalovic J. The human microbiome and probiotics: implications for pediatrics. Curr Probl Pediatr Adolesc Health Care. 2008;38(10):309-27. PCMID: PMC2892890. PMID: 18992706.
- 22. Kalfa N, Liu B, Cao M, Vilella M, **Hsieh M**, Baskin LS. 3-dimensional neuroanatomy of the human fetal pelvis: anatomical support for partial urogenital mobilization in the treatment of urogenital sinus. J Urol. 2008;180(4 Suppl):1709-14; discussion 14-5. PMID: 18708223.
- 23. Aaronson DS, Walsh TJ, Smith JF, Davies BJ, **Hsieh MH**, Konety BR. Meta-analysis: does lidocaine gel before flexible cystoscopy provide pain relief? BJU Int. 2009;104(4):506-9; discussion 509-10. PMID: 19239453.
- 24. Breyer BN, DiSandro M, Baskin LS, **Hsieh MH**. Obesity does not decrease the accuracy of testicular examination in anesthetized boys with cryptorchidism. J Urol. 2009;181(2):830-4. PMID: 19095266.
- 25. Dorsey FY, **Hsieh MH**, Roth DR. 46,XX SRY-Negative True Hermaphrodite Siblings. Urology; 2009;73(3):529-31. PMID: 19038427.
- 26. **Hsieh MH**, Roth DR, Meng MV. Economic Analysis of Infant vs Postpubertal Orchiopexy to Prevent Testicular Cancer. Urology. 2009;73(4):776-81. PMID: 19193413.
- 27. **Hsieh MH,** Bayne A, Cisek LJ, Jones EA, Roth DR. Bladder Injuries During Laparoscopic Orchiopexy: Incidence and Lessons Learned. J Urol. 2009;182(1);280-285. PMID: 19450839.
- 28. **Hsieh MH**, Madden-Fuentes RJ, Roth DR. Urologic Diagnoses Among Infants Hospitalized for Urinary Tract Infections. Urology; 2009;74(1):100-3. PMID: 19406456.
- 29. **Hsieh MH**, Lai J, Saigal CS, and the Urologic Diseases in America Project. Trends in Prenatal Sonography Use and Subsequent Urologic Diagnoses and Abortions in the United States. Journal of Pediatric Urology; 2009; 5(6): 490-494. PMID: 19664960.
- 30. **Hsieh MH**, Meng MV, Walsh TJ, Matthay KK, Baskin LS. Increasing Incidence of Neuroblastoma and Higher Associated Mortality of Children From Nonmetropolitan Areas: Analysis of the Surveillance, Epidemiology and End Results Database. Journal of Pediatric Hematology and Oncology; 2009; 31(12): 942-946. PMID: 19875967.
- 31. Olweny EO, **Hsieh MH**, Buckley JC, McAninch JW. Invasive Neuroendocrine Tumor of the Kidney: a Case Report. Rare Tumors; 2009; 1(2):41-42. No PMID.
- 32. **Hsieh MH**, Madden-Fuentes RJ, Lindsay NE, Roth DR. Treatment of Pediatric Vesicoureteral Reflux Using Endoscopic Injection of Hyaluronic Acid/Dextranomer Gel: Intermediate-Term Experience by a Single Surgeon. Urology, 2010 Jul;76(1):199-203. PMID: 20035980.

- 33. El-Hattab AW, Skorupski JC, **Hsieh MH**, Breman AM, Patel A, Cheung SW, Craigen WJ. OEIS Complex Associated with Chromosome 1p36 Deletion: A Case Report and Review of the Literature. American Journal of Medical Genetics: Part A; 2010; 152A(2):504-511. PMID: 20101692.
- 34. **Hsieh MH**, Madden-Fuentes RJ, Bayne A, Munch E, Wildenfels P, Alexander SJ, Gonzales ET Jr., Cisek LJ, Jones EA, Roth DR. Cross-Sectional Evaluation of Parental Decision-Making Factors for Management of Children with Vesicoureteral Reflux. Journal of Urology, 2010; 184(4 Suppl):1589-93. PMID: 20728107.
- 35. **Hsieh MH**, Hollander A, Lamb DJ, Turek PJ. The Genetic and Phenotypic Basis of Infertility in Men with Pediatric Urologic Disorders. Urology; 2010; 76(1):25-31. PMID: 20451977.
- 36. Bayne A, Madden-Fuentes RJ, Cisek LJ, Gonzales ET Jr., Reavis KM, Roth DR, **Hsieh MH**. Factors Associated with Treatment Delay in Patients with Acute Testicular Torsion: Do Demographics or Interhospital Transfer Matter? Journal of Urology, 2010; 184(4 Suppl): 1743-7. PMID: 20728168.
- 37. **Hsieh MH**, Wildenfels PA, Gonzales ET Jr. Surgical Antibiotic Practices Among Pediatric Urologists in the United States. Journal of Pediatric Urology, 2011 Apr; 7(2):192-7. PMID: 20537590.
- 38. **Hsieh MH**, Alonzo DG, Gonzales Jr. ET, Jones EA, Cisek LJ, Roth DR: Ex-Premature Infant Boys with Hypospadias are Similar in Size to Age-Matched, Ex-Premature Infant Boys Without Hypospadias. Journal of Pediatric Urology, 2011 Oct;7(5):543-7. PMCID: PMC3010437. PMID: 20833109.
- 39. Thai KH, Thathireddy A, **Hsieh MH:** Transurethral Induction of Mouse Urinary Tract Infection. Journal of Visualized Experiments, 2010 Aug 5;(42). pii: 2070. doi: 10.3791/2070. PMID: 20729806.
- 40. Bayne AP, Alonzo DG, **Hsieh MH**, Roth DR: Impact of Anatomical and Socioeconomic Factors on Timing of Urologic Consultation for Boys With Cryptorchidism. Journal of Urology, 2011 Oct; 186(4 Suppl):1601-5. PMID: 21855921.
- 41. Eisenberg ML, **Hsieh MH,** Walters RC, Kasnow R, Lipshultz LI. The Relationship Between Anogenital distance, Fatherhood, and Fertility in Adult Men. PLoS ONE, 2011 May 11;6(5):e18973.
- 42. Fu CL, Apelo CA*, Torres B*, Thai KH, **Hsieh MH**: Mouse Bladder Wall Injection. Journal of Visualized Experiments, 2011 Jul; 53:e2523. doi: 10.3791/2523. PMID 21775962.
- 43. Elliott CS, **Hsieh MH**, Sokol ER, Comiter CV, Payne CK, Chen B: Robot-Assisted versus Open Sacrocolpopexy: a Cost Minimization Analysis. Journal of Urology, 2012 Feb;187(2):638-43. Commentary by Toby Chai in "Are Costs for Robotic Assisted Sacrocolpopexy Lower Than Those for Open Sacrocolpopexy?" (Journal of Urology April 2012 issue).
- 44. Fu CL, Odegaard JI, Herbert DR, **Hsieh MH:** A Novel Mouse Model of *Schistosoma haematobium* Egg-Induced Immunopathology. PLoS Pathogens, 2012; 8(3):e1002605. doi:10.1371/journal.ppat.1002605. Recommended by Faculty of 1000.

- 45. **Hsieh MH**, Eisenberg M, Hittelman AB, Wilson JM, Tasian GE, Baskin LS: Caucasian Male Infants and Boys with Hypospadias Exhibit Reduced Anogenital Distance. Human Reproduction, 2012. doi: 10.1093/humrep/des087. PMID: 22434852. Featured twice in "Urological Survey" of Journal of Urology, Craig Niederberger, published online 1/3/13, doi:10.1016/j.juro.2012.12.091; and Douglas Canning, published online 2/18/13, 10.1016/j.juro.2013.02.046.
- 46. Payne RP, **Hsieh MH**: Reinforcements Arrive for the War Against Chronic Cystitis and Bladder Cancer. British Journal of Urology International, 2012. 2012 Aug 9. doi: 10.1111/j.1464-410X.2012.11417.x. PMID: 22882427.
- 47. Weinberg AE, Hazard FK, **Hsieh MH**: A Case of Genitourinary Crohn's Disease. Urology, 2012 Nov;80(5):1132-4. doi: 10.1016/j.urology.2012.07.044. Epub 2012 Sep 19. PMID: 23295134.
- 48. Ray D, Nelson TA, Fu CL, Patel S, Gong DN, Odegaard JI, **Hsieh MH**: Transcriptional Profiling of the Bladder in Urogenital Schistosomiasis Reveals Pathways of Inflammatory Fibrosis and Urothelial Compromise. PLOS Neglected Tropical Diseases, 2012; 6(11);e1912. doi:10.1371/journal.pntd.0001912. Recommended by Faculty of 1000.
- 49. Nisky I, Patil S, **Hsieh MH**, Okamura AM: Kinematic analysis of motor performance in robot-assisted surgery: a preliminary study. Studies in Health Technology and Informatics. 2013;184:302-8. PMID 23400175.
- 50. Nisky I, **Hsieh M**, Okamura A: A Framework for Analysis of Surgeon Arm Posture Variability in Robot-Assisted Surgery. Proceedings of the IEEE International Conference on Robotics and Automation, Karlsruhe, Germany, 2013 pp: 245-251
- 51. Nisky I, **Hsieh M**, and Okamura A: The Effect of a Robot-Assisted Surgical System on the Kinematics of User Movements. Proceedings of the 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Osaka, Japan, 2013.

CHAPTERS AND NON-PEER REVIEWED PUBLICATIONS

Muder RR, Boldin M, Brennen C, **Hsieh M**, Vickers RM, Mitchum K, Yee YC. A controlled trial of rifampicin, minocycline, and rifampicin plus minocycline for eradication of methicillin-resistant Staphylococcus aureus in long-term care patients [letter]. J Antimicrob Chemother 1994; 34:189-90.

Hsieh MH. Cytotoxic effector mechanisms of graft-versus-leukemia and graft-versus-host disease. Thesis. Thomas Jefferson University. 2001.

Hsieh MH and Baskin LS: Bilateral antenatal hydronephrosis and a dilated bladder: a postnatal diagnostic dilemma. Dialogues in Pediatric Urology 2007; 28(3): 9.

Hsieh MH and Baskin LS: Two sisters with 21-hydroxylase deficiency and differing degrees of genital virilization after prenatal corticosteroid treatment. Dialogues in Pediatric Urology 2007; 28(3):6.

Hsieh MH and Reid G: Preventing urinary tract infections in children-the potential of probiotics. U.S. Pediatrics, Touch Briefings; 2008; 4(1): 40-42.

Hsieh MH and Turek PJ: Pediatric urinary tract infections. Website for AUA National Medical Student Curriculum, 2008. Link: http://www.auanet.org/content/education-and-meetings/medstu-curriculum/peds-UTI.pdf

Hsieh MH. Editorial Comment for "Identification of Differentially Expressed Genes in Human Cryptorchid Testes Using Suppression Subtractive Hybridization". J Urol; 2009; 181(3):1337.

Hsieh MH. Editorial Comment for "Quantitative Ultrasonographic Renal Parenchymal Area Correlates with Renal Volume and Identifies Reflux". J Urol; 2009; 182(4 Suppl):1687.

Meng MV and **Hsieh MH**: Medicolegal Aspects of Minimally Invasive Urologic Surgery, Chapter in "Complications of Robotic and Laparoscopic Urologic Surgery". 1st edition, pp. 293-306. Edited by Reza Ghavamian, Springer and Humana Press, 2010.

Hsieh MH, Meng MV, Baskin LS. Reply by the authors. Urology; 2010; 76(3):770.

Breyer BN, DiSandro M, Baskin LS, **Hsieh MH**: Evaluation and Treatment of the Undescended Testicle in Obese Males. Dialogues in Pediatric Urology 2010; 31(5):2-3.

Hsieh MH. Editorial Comment for "Molecular Effects of Genistein on Male Urethral Development". J Urol; 2011 May;185(5):1898-9.

Hsieh MH. Editorial Comment for "Pediatric Pyelonephritis: A Population-based Study of California From 1985-2006". J Urol; 2011. PMID: 21784473.

Guest editor, "Recurrent Febrile Urinary Tract Infections in the Anatomically Normal Child: The Greatest 'Mundane' Challenge of Pediatric Urology?" Contributors: Copp HL, Hagerty JA, de Jong TPVM. Dialogues in Pediatric Urology 2011; 32(5): 1-4.

Hsieh MH. Editorial Comment for "B Cell Infiltration and Lymphonodular Hyperplasia in Bladder Submucosa of Patients with Persistent Bacteriuria and Recurrent Urinary Tract Infections". J Urol; 2011 Sep;186(3):1034. PMID: 22019044.

Hsieh MH and Versalovic J: Probiotics-Mediated Suppression of Vaginal Biofilm Function and Pediatric Bacteriuria. Dialogues in Pediatric Urology 2012; 33(3): 9-11.

Hsieh MH. Editorial Comment for "Published Surgical Success Rates in Pediatric Urology—Fact or Fiction?". J Urol; 2012 Aug; PMID: 22910258.

Fu C-L and **Hsieh MH.** *Schistosoma haematobium* egg isolation. Published in Bio-protocol 9/26/12: http://www.bio-protocol.org/wenzhang.aspx?id=279

Hsieh MH. Editorial Comment for "Single Institutional Cost Analysis of 325 Robotic, Laparoscopic, and Open Partial Nephrectomies". Urology, 2013 Jan 4. pii: S0090-4295(12)01154-5. doi:10.1016/j.urology.2012.07.108. [Epub ahead of print]

Weinberg A and Hsieh MH: Current management of Vesicoureteral Reflux in Pediatric Patients:

a Review. Pediatric Health, Medicine and Therapeutics 2013, 4:1-12.

Hsieh MH. Editorial Comment for "Single Institutional Cost Analysis of 325 Robotic, Laparoscopic, and Open Partial Nephrectomies". Urology, 2013 Mar;81(3):538; discussion 539. doi: 10.1016/j.urology.2012.07.108. Epub 2013 Jan 4. PMID: 23295134.

ABSTRACTS (SINCE 2005)

Hsieh M, Perry V, Gupta N, Pearson C, and Nguyen HT. The Effects of Releasing Tethered Cord on Urodynamics. Western Section American Urological Association, 2005, Vancouver, Canada.

Hsieh MH, Meng MV, Baskin LS, and Swana HS. Cost-Effectiveness Analysis of Vesicoureteral Reflux Treatment Algorithms Using Markov Models. American Urological Association, 2006, Atlanta, GA.

Hsieh MH, Cheasty E, Willingham E, Liu B, and Baskin LS. *In Utero* Exposure to the UV Stabilizer Benzophenone-2 Causes Hypospadias in Mice. American Urological Association, 2006, Atlanta, GA.

Hsieh MH and Baskin LS. Two Sisters with 21-Hydroxylase Deficiency and Differing Degrees of Genital Virilization After Prenatal Corticosteroid Treatment. Society of Fetal Urology, 2006, Atlanta, GA.

Hsieh MH, Meng MV, and Turek PJ. Markov Modeling of Vasectomy Reversal vs. ART for Infertility Due to Vasectomy: How Do Obstructive Interval and Female Partner Age Influence Cost-Effectiveness? Western Section American Urological Association, 2006, Maui, HI.

Hittelman AB, **M Hsieh**, Meng MV. Defining criteria for adjuvant therapy in clinical stage I seminoma using decision analysis. Western Section American Urological Association, 2006, Maui, HI.

Hsieh MH, Cheasty E, Liu B, Macapagal R, Willingham E, and Baskin LS. *In Utero* Exposure to Benzophenone-2, a Non-Estrogenic Compound, Upregulates Estrogen Receptor Beta in the Genital Tubercle and Causes Hypospadias in an Estrogen Receptor-Dependent Manner. American Association of Pediatrics, Urology Section, 2006, Atlanta, GA.

Hsieh MH, Meng MV, and Baskin LS. Outcomes and Cost Analysis of Pyeloplasty for Antenatally Diagnosed Ureteropelvic Junction Obstruction Using Markov Models. American Association of Pediatrics, Urology Section, 2006, Atlanta, GA.

Kalfa N, Cao M, Liu B, Viella M, **Hsieh MH**, and Baskin LS. Tridimensional Neuroanatomy of the Fetal Pelvis: Surgical Implications for the Urogenital Sinus (UGS). American Academy of Pediatrics, Urology Section, 2007, San Francisco, CA.

Liu B, Feng D, Lin G, Cao M, **Hsieh MH**, Kan YW, and Baskin LS. Differential Expression of Smooth Muscle Differentiation Genes in Mouse Embryonic Bladder Mesenchyme. American Academy of Pediatrics, Urology Section, 2007, San Francisco, CA.

Liu B, Ryu D-S, Clavijo R, **Hsieh MH**, and Baskin LS. Sonic Hedgehog Signaling Is Involved in Phenotypic Modulation of C3H10T1/2 Cells to Smooth Muscle Cells. American Academy of Pediatrics, Urology Section, 2007, San Francisco, CA.

Hsieh MH, Breyer BN, Eisenberg ML, and Baskin LS. Boys with Hypospadias Exhibit Reduced Anogenital Distance, a Putative Sign of Endocrine Disruption. American Urological Association, 2007, Anaheim, CA.

Hsieh MH, Tan AG, and Meng MV. Medical Malpractice in American Urology: a 22-Year National Review of the Impact of Caps and Implications for Contemporary Practice. American Urological Association, 2007, Anaheim, CA.

Liu B, Lin G, **Hsieh MH**, Lin C-S, Lue TF, and Baskin L. Estradiol Effects on the Promoter Activity of Activating Transcription Factor 3 in Human Foreskin Fibroblastic Cell. American Urological Association, 2007, Anaheim, CA.

Hsieh MH, Walsh TJ, Meng MV, Matthay KK, and Baskin LS. Rising Neuroblastoma Incidence and Higher Mortality in Children from Nonmetropolitan Areas: SEER Program Experience 1973-2003. American Urological Association 2008, Orlando, FL.

Aaronson DS, Walsh TJ, Davies BJ, **Hsieh MH**, Konety B. Meta-Analysis: Does Lidocaine Gel Prior to Flexible Cystoscopy Provide Pain Relief? American Urological Association 2008, Orlando, FL.

Hsieh MH, Roth DR, Meng MV. Economic Analysis of Infant Versus Post-Pubertal Orchidopexy to Prevent Testis Cancer. American Urological Association 2008, Orlando, FL.

Kalfa N, Liu B, Cao M, Vilella M, **Hsieh M**, Baskin LS: 3-Dimensional neuroanatomy of the human fetal pelvis: anatomical support for partial urogenital mobilization in the treatment of urogenital sinus. ESPU Congress, 2008, Nice, France.

Hsieh MH, Breyer BN, and Baskin LS. Pediatric Obesity Does Not Decrease the Accuracy of Physical Examination of Undescended Testes. American Urological Association 2008, Orlando, FL.

Liu B, **Hsieh M**, and Baskin LS. Sonic Hedgehog Signaling Modulates Smooth Muscle Cell Differentiation Genes in Pluripotent C3H10T1/2 Stem Cells. American Urological Association 2008, Orlando, FL.

Hsieh MH, Roth DR, and Cisek LJ. Prone Minimally-Invasive Retroperitoneal Lymph Node Dissection for Paratesticular Rhabdomyosarcoma in a Patient with Neurofibromatosis. American Urological Association 2008, Orlando, FL.

Hsieh MH, Munch E, Reid G, Roth DR, Trautner BW, Kaplan SL, Jones EA, Versalovic J. Probiotic *Lactobacillus reuteri* RC-14 and *Lactobacillus rhamnosus* GR-1 for Prevention of Urinary Tract Infections in Catheterization-Dependent Girls with Spina Bifida. Fellows' Day, Texas Children's Hospital, 2009, Houston, TX.

Bell J, Sun H, Uray I, Szafran A, **Hsieh M,** Roth D, Karaviti L, Mancini M, Marcelli M. Androgen Receptor Signaling in Patients with Hypospadias. Fellows' Day, Texas Children's Hospital, 2009, Houston, TX.

Hsieh MH, Lai J, Saigal CS, and the Urologic Diseases in American Project. Trends in Prenatal Sonography Use and Subsequent Urologic Diagnoses and Abortions. American Urological Association 2009, Chicago, IL.

Hsieh MH, Madden-Fuentes RJ, and Roth DR. Urologic Diagnoses Among Infants Hospitalized for Urinary Tract Infections. American Urological Association 2009, Chicago, IL.

Hsieh MH, Han S, Louet M, and Lamb DJ. Array-Based Comparative Genomic Hybridization Reveals 9p24 as a Genetic Hotspot for Ambiguous Genitalia and Gonadal Dysgenesis. American Urological Association 2009, Chicago, IL.

Hsieh MH, Munch E, Reid G, Roth DR, Trautner BW, Kaplan SL, Jones EA, Versalovic J. Probiotic *Lactobacillus reuteri* RC-14 and *Lactobacillus rhamnosus* GR-1 for Prevention of Urinary Tract Infections in Catheterization-Dependent Girls with Spina Bifida. European Society of Pediatric Urology 2009, Amsterdam, Netherlands.

Bell JJ, Sun H, Szafram A, Uray I, Hsieh M, Roth D, Mancini M, Karaviti L, and Marcelli M. Androgen Receptor Signaling in Patients with Conditions of Sexual Differentiation. Pediatric Academic Societies' Annual Meeting 2009, Baltimore, Maryland.

Bell JJ, Sun H, Szafran A, Uray I, **Hsieh M**, Roth D, Karaviti L, Mancini M, Marcelli M. Androgen Receptor Signaling in Children with Hypospadias. Endocrine Society 2009, Washington, DC.

Hsieh MH, Munch E, Madden-Fuentes RJ, Wildenfels P, Alexander SJ, Bayne A, Gonzales ET Jr., Cisek LJ, Jones EA, Roth DR. Prospective Evaluation of Parental Decision-Making Factors for Management of Children with Vesicoureteral Reflux. American Academy of Pediatrics, Urology Section, 2009, Washington, DC.

Bayne A, **Hsieh MH,** Madden-Fuentes RJ, Jones EA, Cisek LJ, Gonzales ET Jr., Roth DR. Acute Testicular Torsion: Effect of Hospital Transfer and Socioeconomic Factors on Patient Outcomes. American Academy of Pediatrics, Urology Section, 2009, Washington, DC.

Hsieh MH, Wildenfels P, Gonzales ET Jr. Surgical Antibiotic Practices Among Pediatric Urologists in the United States. American Academy of Pediatrics, Urology Section, 2009, Washington, DC.

Hsieh MH, Thomas CM, Versalovic J. Probiotic *Lactobacillus*-Mediated Immunomodulation of Vaginal Epithelium is Strain-Specific and Modified by Estrogen. American Academy of Pediatrics, Urology Section, 2009, Washington, DC.

Higuera S, Hatef DA, **Hsieh M**, Cisek L, Friedman J, Heller L. Laparoscopic Harvest of the Epigastric Artery and Vein Combined with Microsurgical Anastomosis for Testicular Autotransplantation. American Society for Reconstructive Microsurgery, 2010, Boca Raton, FL.

Hsieh MH, Knudsen GM, Suzuki B, Lim KC, Thathireddy A, Thai KH, Caffrey CR, McKerrow JH. Proteomics-Enabled Discovery of Candidate Urine Biomarkers for Schistosomiasis. Stanford Biosciences Graduate Student Applicant Reception, 2010, Stanford CA.

Apelo C, Thathireddy A, Lim JY, Cegelski L, **Hsieh MH.** The Effects of Curcumin on the Virulence of UTI89. Symposia of Undergraduate Research and Public Service, 2010, Stanford CA.

Hsieh MH, Benoit MR, Sylvester MD, Keyhan M, Rheems MS, Kim J, Lim Y, Thathireddy A, Xie S, Matin A. The Role of rpoS and Related General Stress Response Genes in the Antibiotic Resistance of Uropathogenic Escherichia coli In Vitro and In Vivo. Symposia of Undergraduate Research and Public Service, 2010, Stanford CA.

Hsieh MH, Knudsen GM, Suzuki B, Lim KC, Thathireddy A, Thai KH, Caffrey CR, McKerrow JH. Proteomics-Enabled Discovery of Candidate Urine Biomarkers for Schistosomiasis. Symposia of Undergraduate Research and Public Service, 2010, Stanford CA.

Hsieh MH, Knudsen GM, Suzuki B, Lim KC, Thathireddy A, Thai KH, Caffrey CR, McKerrow JH. Proteomics-Enabled Discovery of Candidate Urine Biomarkers for Schistosomiasis. Bay Area International Health Interest Group Conference, 2010, San Francisco CA.

Bayne A, **Hsieh MH**, Jorgez CJ, Weedin JW, Lamb DJ. Effect of Ghrelin on Preservation of Endocrine and Spermatogenic Function of Surgically Cryptorchid Mice. American Urological Association, 2010, San Francisco, CA.

Hsieh MH, Alonzo D, Gonzales ET Jr., Jones EA, Cisek LJ, Roth DR. Ex-Premature Infant Boys with Hypospadias are Similar in Size to Age-Matched, Ex-Premature Infant Boys Without Hypospadias. World Congress of Pediatric Urology, 2010, San Francisco, CA.

Hsieh MH, Knudsen GM, Suzuki B, Lim KC, Thathireddy A, Thai KH, Caffrey CR, McKerrow JH. Proteomics-Enabled Discovery of Candidate Urine Biomarkers for Schistosomiasis. Stanford Bio-X Symposium, 2010, Stanford, CA.

Fu CL, Thathireddy A, Knudsen G, Caffrey C, McKerrow J, Herbert D, Thai K, Xie S, **Hsieh MH**. A Novel Mouse Model of Bladder Schistosomiasis Indicates That Th2 Responses May Control Inflammatory Smooth Muscle Fibrosis. Stanford University Postdoctoral Association Poster Session and Networking Event, 2010, Stanford, CA.

Hsieh MH, Benoit MB, Sylvester MD, Keyhan M, Rhee MS, Kim J, Lim Y-H, Thathireddy A, Matin AC. The Bacterial General Stress Response Confers Antibiotic Resistance to Uropathogens *in Vivo*. American Academy of Pediatrics, Urology Section, 2010, San Francisco, CA.

Hsieh MH and Burgos A. A Survey of Physicians' Treatment of Vesicoureteral Reflux and Their Referral Patterns to Specialists. American Academy of Pediatrics, Urology Section, 2010, San Francisco, CA.

Bayne AB, Alonzo DG, **Hsieh M**, Roth DR. Analysis of Anatomic and Socioeconomic Factors on Timing of Urologic Consultation for Boys with Cryptorchidism. American Academy of Pediatrics, Urology Section, 2010, San Francisco, CA.

Hsieh MH, Gargollo P, Giel DW, Bush N, Tanaka ST, Copp HL, Ross S. PEDiUro: a Necessary and Feasible Multi-Institutional Registry. American Academy of Pediatrics, Urology Section, 2010, San Francisco, CA.

Bush NC, **Hsieh MH**, Copp HL, Gargollo P, Giel DW, Tanaka ST, Ross S. Successful Alignment of Research Interests with Clinical Practice Among Newly Hired Academic Pediatric Urologists: a PEDiUro Study. American Academy of Pediatrics, Urology Section, 2010, San Francisco, CA.

Hsieh MH, Knudsen G, Thathireddy A, Thai K, Xie S, Fu CL, Suzuki B, Lim KC, McKerrow J, Caffrey C. Development of Mouse Models of Chronic *Schistosoma haematobium* Infection to Study Mechanisms of Bladder Fibrosis. American Academy of Pediatrics, Urology Section, 2010, San Francisco, CA.

Hsieh YJ, Hamilton AM, Matin AC, Rutt B, **Hsieh MH**. Direct Magnetic Resonance Imaging of Bacteria Using Magnetic Nanoparticles. Center for Biomedical Imaging at Stanford, 2011, Stanford, CA.

Elliott CS, **Hsieh MH**, Chen B, Comiter CV, Payne CK, Sokol ER. Robotic-Assisted Versus Open Sacrocolpopexy: a Cost Minimization Analysis. American Urogynecologic Surgery, 2011, Providence, RI.

Fu CL, Thathireddy A, Knudsen G, Caffrey C, McKerrow J, Herbert D, Thai K, Xie S, **Hsieh MH**. A Novel Mouse Model of Schistosoma haematobium Infection to Study Inflammatory Mechanisms of Bladder Fibrosis. American Association of Immunology, 2011, San Francisco, CA.

Elliott CS, **Hsieh MH**, Chen B, Comiter CV, Payne CK, Sokol ER. Can Robotic Surgery be Cost Effective? A Cost-Minimization Analysis of Robotic-Assisted versus Open Sacrocolpopexy. American Association of Gynecologic Laparoscopists Global Congress of Minimally Invasive Gynecology, 2011, Hollywood, FL. Winner of Best Robotics Abstract.

Ayala OD, Ray D, Nelson T, Honeycutt J, Fu CL, **Hsieh M**. RNA Isolation in *S. haematobium*-Induced Mouse Bladder Granulomas by Laser Capture Microdissection. Annual Biomedical Research Conference for Minority Students, 2011, St. Louis, MO.

Hagedorn JC and **Hsieh M.** Pediatricians' Practice Patterns for Children With Vesicoureteral Reflux. American Academy of Pediatrics, 2011, Boston, MA.

Satish S, Abdulla A, Zhao C, Rempel D, Gonzalgo M, **Hsieh M.** Virtual Instrument Pedals: Towards Improved Surgeon Ergonomics and Operating Room Safety. American Academy of Pediatrics, 2011, Boston, MA.

Hsieh YJ, Fu CL, Thathireddy A, **Hsieh MH.** The Urinary Schistosomiasis-Bacteriuria Connection: A New Model to Explore Potential Mechanisms. American Society of Tropical Medicine and Hygiene, 2011, Philadelphia, PA.

Ray D, Nelson T, Fu CL, **Hsieh MH**. Systems Biology of Bladder Schistosomiasis. American Society of Tropical Medicine and Hygiene, 2011, Philadelphia, PA.

Nisky I, **Hsieh MH**, Karniel A, Okamura A. The Role of Surgeon Perceptuomotor Performance in Robot-Assisted Surgery. Stanford Bio-X Symposium, 2012, Stanford, CA.

Honeycutt J, Fu CL, Odegaard JI, **Hsieh MH.** New Models to Explore Inflammation-Associated Carcinogenesis in Schistosomiasis. Symposium on Mediators of Immunity and Pathogenesis, 2012, Stanford, CA.

Hsieh YJ, Fu CL, **Hsieh MH.** The Effect of the Local Host Response to Helminth Eggs on the Resolution of Concomitant Bacterial Infection. Symposium on Mediators of Immunity and Pathogenesis, 2012, Stanford, CA.

Fu CL, Odegaard JI, Thathireddy A, Herbert DR, **Hsieh MH.** A Novel Mouse Model of Schistosoma haematobium Egg-Induced Immunopathology. Symposium on Mediators of Immunity and Pathogenesis, 2012, Stanford, CA.

Kerk ARE, Hsieh YJ, **Hsieh MH.** *In vivo* bladder permeability of *Schistosoma haematobium* egginfected mice. DVM Student division of the poster session of the Purdue Phi Zeta Research Day, 2012, IN (2nd place, DVM student category).

Satish S, Zhao CL, Abdulla AG, Miller K, Rempel DM, Gonzalgo ML, **Hsieh MH.** Novel method for real-time measurement of surgical blood loss. American Society of Anesthesiologists Annual Meeting, 2012, Washington, DC.

Nisky I, Patil S, **Hsieh M**, Okamura A. Kinematic Analysis of Motor Performance with a Robot-Assisted Surgical System. Bio-X Interdisciplinary Initiatives Symposium, 2012, Stanford, CA.

Kerk ARE, Hsieh YJ, **Hsieh MH.** Visualization of Uroplakin Expression in a Mouse Model of Urinary Schistosomiasis. American College of Veterinary Pathologists Annual Meeting, 2012, Seattle, Washington.

Nisky I, Patil S, **Hsieh MH**, Okamura AM. Kinematic Analysis of Motor Performance in Robot-Assisted Surgery: A Preliminary Study. NextMed/Medicine Meets Virtual Reality(MMVR) Conference, 2013, San Diego, California.

Fu CL, Thai K, Odegaard J, **Hsieh MH.** The Role of Macrophages in Schistosomal Bladder Pathogenesis. American Society of Tropical Medicine and Hygiene, 2012, Atlanta, Georgia.

Nisky I, **Hsieh MH**, Okamura AM. A Framework for Analysis of Surgeon Arm Posture Variability in Robot-Assisted Surgery. IEEE International Conference on Robotics and Automation (ICRA), 2013, Karlsruhe, Germany (presentation pending).

Nisky I, **Hsieh M,** Okamura A. Sensorimotor Performance in Robot-Assisted Surgery. Neural Control of Movement Society Meeting, Puerto Rico (presentation pending).

Pennington LF, Ray R, Fu CL, Hsieh YJ, **Hsieh MH**. Immunomodulatory Proteins of *Schistosoma haematobium*. Bio-X Interdisciplinary Initiatives Symposium, 2013, Stanford, CA.

Honeycutt J, Fu CL, Conti S, Odegaard J, **Hsieh MH**. New models to explore inflammation-associated carcinogenesis in schistosomiasis. Bio-X Interdisciplinary Initiatives Symposium, 2013, Stanford, CA.

Fu CL, Odegaard J, Hsieh MH. Macrophage Regulation of Schistosomal Bladder Pathogenesis.

Hsieh YJ, Fu CL, **Hsieh MH.** The Effect of the Local Host Response to Helminth Eggs on the Resolution of Concomitant Bacterial Infection. Bio-X Interdisciplinary Initiatives Symposium, 2013, Stanford, CA.

Pennington LF, Ray R, Fu CL, Hsieh YJ, **Hsieh MH**. Immunomodulatory Proteins of *Schistosoma haematobium*. Bay Area Microbial Pathogenesis Symposium, 2013, San Francisco, CA.

Honeycutt J, Fu CL, Conti S, Odegaard J, **Hsieh MH**. New models to explore inflammation-associated carcinogenesis in schistosomiasis. Bay Area Microbial Pathogenesis Symposium, 2013, San Francisco, CA.

Fu CL, Odegaard J, **Hsieh MH.** Macrophage Regulation of Schistosomal Bladder Pathogenesis. Bay Area Microbial Pathogenesis Symposium, 2013, San Francisco, CA.

Hsieh YJ, Fu CL, **Hsieh MH.** The Effect of the Local Host Response to Helminth Eggs on the Resolution of Concomitant Bacterial Infection. Bay Area Microbial Pathogenesis Symposium, 2013, San Francisco, CA.

Nisky I, **Hsieh MH**, Okamura AM. The Effect of Robot Assisted Surgery System on the Kinematics of User Movements. IEEE Engineering in Medicine and Biology Society Meeting, 2013, Osaka, Japan.

Hsieh YJ, Fu CL, **Hsieh MH.** Helminth-Induced IL-4 Abrogates iNKT Cell Clearance of Bacteriuria. Woods Hole Immunoparasitology Meeting, 2013, Woods Hole, MA.

Thai K, Khan M, Nicolls M, Ray D, Nelson T, Fu C-L, Patel S, Gong D, Odegaard J, Knudsen G, **Hsieh MH.** Chronic Inflammation-Induced Hematuria Involves Molecular Modulation of the Urothelial Barrier and Bladder Vasculature. American Urological Association Meeting, 2013, San Diego, CA.

Fu C-L, Thai K, Odegaard J, **Hsieh MH.** The Role of Macrophages in Chronic Bladder Inflammation-Associated Granuloma Formation, Fibrosis, and Sepsis. American Urological Association Meeting, 2013, San Diego, CA.

Hsieh Y-J, Fu C-L, **Hsieh MH.** Interleukin-4 Signaling Promotes Bacteriuria During Urinary Tract Co-Infection. American Urological Association Meeting, 2013, San Diego, CA.

Nisky I, Patil S, **Hsieh MH**, Okamura A. Kinematic Analysis of Motor Performance in Robot-Assisted Surgery: Implications for Robot Design and Surgical Training. American Urological Association Meeting, 2013, San Diego, CA.

Nisky I, **Hsieh MH,** Okamura A. The Effect of a Robot-Assisted Surgical System on the Kinematics of User Movements. Engineering in Medicine and Biology Conference, 2013, Osaka, Japan.

Morimoto T, **Hsieh MH**, Okamura A. Robot-Guided Sheaths (RoGS) for Percutaneous Access to the Pediatric Kidney: Patient-Specific Design and Preliminary Results. 6th Annual Dynamic Systems and Control Conference, 2013, Stanford, California.

INVITED SPEAKERSHIPS

"Boys with Hypospadias or Cryptorchidism Exhibit Reduced Anogenital Distance, A Putative Sign of Endocrine Disruption" and "A Taiwanese-American Physician's Perspective on

American Urologic Residency Training: a Mirror for the American and Taiwanese Medical Systems", April 9, 2007, Tzu Chi Hospital, Talin Branch, Talin, Taiwan.

"Robotic Urologic Surgery at UCSF", April 10, 2007, Buddhist Tzu Chi General Hospital, Hualien, Taiwan.

"The Human Microbiome Project: New Opportunities for Advancing the Science of Probiotics", November 9, 2008, Plenary Session, International Scientific Association for Probiotics and Prebiotics, London, Ontario, Canada.

"Probiotics in Obstetrics, Gynecology, and Urology", November 10, 2008, International Scientific Association for Probiotics and Prebiotics, London, Ontario, Canada.

"The Human Microbiome Project: the Baylor Experience", February 20, 2009, Experimental Pathology Seminar, Texas Children's Hospital, Houston, Texas.

"Immunomodulation of the Female Genitourinary Tract Through Probiotics", March 12, 2009, Feigin Center Research Seminar, Texas Children's Hospital, Houston, Texas.

"Probiotics for Renal Diseases", April 9, 2009, Pediatric Nephrology Conference, Texas Children's Hospital, Houston, Texas.

"Evaluation and Treatment of the Undescended Testicle in Obese Males", April 25, 2009, Society of Pediatric Urology, Chicago, Illinois.

"Unmet Device and Drug Needs in Pediatric Urology and Nephrology", October 29, 2009, Food and Drug Administration Workshop on Pediatric Clinical Trials, College Park, Maryland.

"Experiences with Submitting a Pediatric Probiotics IND Application to the FDA", October 30, 2009, Food and Drug Administration Workshop on Pediatric Clinical Trials, College Park, Maryland.

"Immunomodulatory effects and impact of lactic acid bacteria and other candidate Probiotics", November 4, 2009, International Scientific Association for Probiotics and Prebiotics, Irvine, California.

"Probiotic *Lactobacillus*-Mediated Immunomodulation of Vaginal Epithelium is Strain-Specific and Modified by Estrogen", November 8, 2009, Stanford Interdisciplinary Program in Immunology Scientific Conference, Stanford, California.

"Vaginal Immunomodulation Through Probiotics", December 9, 2009, Stanford Department of Microbiology and Immunology, Institute for Immunity, Transplantation and Infection, and Program in Molecular and Genetic Medicine Seminar, Stanford, California.

"Novel Models of Urinary Schistosomiasis: Addressing Basic Research Needs of a Doubly Neglected Tropical Disease", December 9, 2009, Stanford Global Health Interest Group, Stanford, California.

"Probiotics, Cystitis, and Schistosomiasis: Host-Microbial Interactions in the Genitourinary Tract", March 15, 2010, Department of Urology Seminar, Stanford, California.

"Urine Trouble: Th2-Associated Smooth Muscle Fibrosis", September 12, 2010, Stanford Interdisciplinary Program in Immunology Scientific Conference, Asilomar, California.

"Targeting Elements of Bacterial Innate Resistance to Combat Bacterial Biofilm Resistance: The Physiologic Relevance", November 10, 2010, United States Army Institute for Surgical Research, San Antonio, Texas.

"Schistosoma haematobium: 112 Million Reasons to Develop Better Animal Models", October 17, 2010, Northern California Branch of the American Association for Laboratory Animal Science Symposium, South San Francisco, California.

"Prone Retroperitoneoscopic Surgery in Children", February 16, 2011, Cleveland Clinic, Cleveland, Ohio.

"Minimal Access Surgery in Paediatric Urology", February 25, 2011, Kenya Association of Urological Surgeons, Nairobi, Kenya.

"Immunoparasitology: the Path to an Efficacious UTI Vaccine?", October 19, 2011, Nationwide Children's Hospital, Columbus, Ohio (visiting professorship).

"Getting a Career Development Award in Probiotics Research", October 22, 2011, International Scientific Association for Prebiotics and Probiotics-Student and Fellows Association, Berkeley, California.

"The Local Host Response to Helminth Eggs Hinders Resolution of Concomitant Bacterial Infection", November 29, 2011, Stanford Immunology, Microbiology and Immunology, ITI Joint Seminar Series, Stanford, California.

"A Low-cost Mobile Platform for Real Time Monitoring of Maternal Blood Loss During Childbirth", March 23, 2012, Extreme Affordability Conference, University of Utah Center for Global Surgery, Salt Lake City, Utah.

"Bacteriuria in Renal Transplant Patients", August 3, 2012, Transplantation Workshop, Southern Taiwan, Kaohsiung, Taiwan.

"Macrophage and Type 2 Immune Regulation of Schistosomal Bladder Pathogenesis", November 9, 2012, University of California Davis, Davis, California.

"Texting While Driving: Helminth-Induced IL-4 Impairs iNKT Cell Clearance of Bacterial Urinary Tract Co-Infection", March 6, 2013, Hillview Research Seminar (Stanford Blood Center), Stanford, California.

TEACHING ACTIVITIES (SINCE 2008)

Urology "Boot Camp" for second year Baylor urology residents, Pediatric Urology topics, October 20, 2008. 1 hour lecture.

Acute Scrotum and Pediatric Urinary Tract Infections for third year medical students (surgical clerkship). January 22, 2009. 1 hour lecture.

Blunt Pediatric Urologic Trauma for pediatric urology service housestaff. September 25, 2009. 1

hour lecture.

Department of Urology basic science journal club. March 1, 2010. Facilitated 1 hour discussion of basic science articles.

"Benign Urologic Research". Stanford medical student lunch seminar. April 9, 2010. 1 hour lecture (given in conjunction with James Brooks).

"Pediatric Acute Scrotum" for Stanford Department of Urology residents. August 9, 2010. 1 hour lecture.

"Antibiotics in Urology: Why, When, What, Who, Where, and How" for Stanford Department of Urology residents. September 24, 2010. 2 hour lecture.

"Ureteropelvic Junction Obstruction" for Stanford Department of Urology residents. January 31, 2011. 1 hour lecture.

"Kutting Up Kids Kindly" for Stanford Department of Urology residents. September 25, 2011. 1 hour lecture.

"Scientific Writing Part 1: the Audience" for Hsieh Laboratory members. September 30, 2011. 1 hour lecture.

Blunt Pediatric Urologic Trauma for pediatric urology service housestaff. January 20, 2012. 1 hour lecture.

Schistosomiasis lecture for Stanford Human Biology Course "Parasites and Pestilence". January 20, 2012. 1 hour session.

Schistosomiasis wet lab for Stanford Human Biology Course "Parasites and Pestilence". February 15, 2012. 2 hour session.

"Surgery: the Unscientific Science" for "Surgery for Engineers" course (instructor: Allison Okamura). April 11, 2012. 45 minute lecture.

Prenatal Diagnosis of Urologic Anomalies lecture for pediatric urology service housestaff. February 15, 2013. 1 hour lecture.

"Surgery: the Unscientific Science" for "Surgery for Engineers" course (instructor: Allison Okamura). April 15, 2013. 45 minute lecture.

"Immunodiagnostics and Vaccines for the Deadliest Parasitic Worm on Earth" for Translational Immunology course. April 15, 2013. 45 minute lecture.

"Inflammatory Carcinogenesis: Drone Strikes on the Methylome" for Advanced Immunology course (instructor: K. Chris Garcia). April 23, 2013. 1 hour lecture.

CONFERENCES AND COURSES ATTENDED (SINCE 2009)

Fellows' Day, Texas Children's Hospital, 2009, Houston, Texas

American Urological Association 2009, Chicago, Illinois

European Society of Pediatric Urology 2009, Amsterdam, Netherlands

Society of Pediatric Urology, April 25, 2009, Chicago, Illinois.

Food and Drug Administration Workshop on Pediatric Clinical Trials, October 29-30, 2009, College Park, Maryland.

Arthur M. Sackler Colloquium of the National Academy of Sciences: Microbes and Health, November 3, 2009, Irvine, California.

International Scientific Association for Probiotics and Prebiotics, November 4-5, 2009, Irvine, California.

Stanford Interdisciplinary Program in Immunology Scientific Conference, November 8, 2009, Stanford, California.

American Urological Association Foundation/Society for Basic Urology Research Conference on "Decreasing Mortality from Bladder Cancer over the Next Decade", December 6, 2009, Linthicum, Maryland.

American Urological Association Course on Laparoendoscopic Single-Site Surgery, January 8, 2010, Los Angeles, California.

Stanford Biosciences Graduate Student Applicant Reception, March 4, 2010, Stanford, California.

Bay Area International Health Interest Group Conference, March 7, 2010, San Francisco, California.

Schistosomiasis Training Course, May 12-13, 2010, Rockville, Maryland.

First World Congress of Pediatric Urology, May 27-31, 2010, San Francisco, California.

American Urological Association, May 31-June 2, 2010, San Francisco, California.

American Academy of Pediatrics, October 2-4, 2010, San Francisco, California.

Western Section American Urological Association, Oct 24-29, 2010, Hawaii.

American Society of Tropical Medicine and Hygiene, Nov 4-7, 2010, Atlanta, Georgia.

Global Health Diagnostics Innovation Summit: Translating Ideas Into Impact, Dec 10, 2010, Berkeley, California.

Kenya Association of Urological Surgeons, February 25, 2011, Nairobi, Kenya.

American Academy of Pediatrics, October 15-18, 2011, Boston, Massachusetts.

American Society of Tropical Medicine and Hygiene, Dec 4-8, 2011, Philadelphia, Pennsylvania.

Center for Biomedical Imaging at Stanford Symposium, 2011, Stanford, CA.

American Association of Immunology, 2011, San Francisco, CA.

Stanford Bio-X Symposium, 2012, Stanford, CA.

Symposium on Mediators of Immunity and Pathogenesis, 2012, Stanford, CA.

American Urological Association, May 19-23, 2012, Atlanta, Georgia.

American Society of Tropical Medicine and Hygiene, November 2012, Atlanta, GA.

American Urological Association New Investigators Workshop, November 2012, Linthicum, MD.

Bay Area Microbial Pathogenesis Symposium, March 2013, San Francisco, CA.

NIDDK K Awardees' Workshop, April 2013, Bethesda, MD.

MENTORING

PREDOCTORAL STUDENTS SUPERVISED OR MENTORED:

Dates	Name	Program or School	Role	Current Position
2010	Jennifer Payne	Mountain View High School	Student volunteer	College student
2010- 2012	Shelly Xie	Stanford University	Student volunteer	Gap year
2010- 2012	Kim Thai	Stanford University	Student volunteer	Medical student
2010- 2011	Baldemar Torres	Stanford University	Student volunteer	Gap year
2010- 2011	Charity Apelo	Stanford University	Student volunteer	Medical school applicant
2011	Oscar Ayala	Univ. of Texas Austin	Summer intern	Bioengineering Ph.D. student (Vanderbilt)
2011- 2012	Aileen Bui	Stanford University	Student volunteer	Gap year
2011- present	Thien-Linh Le	Stanford University	Student volunteer	Student volunteer

DOCTORAL STUDENTS SUPERVISED OR MENTORED:

Dates	Name	Program	or	Role	Current Position
		School			
2011-	Jared Honeycutt	Stanford		Graduate	Graduate Student
present		University		Student	(Immunology)
				(Immunology)	
2011-	Amber Kerk	Purdue		Summer	Veterinary Student
2012		University		Veterinary	-
				Student	

2011-	Luke Pennington	Stanford	MD/PhD	MD/PhD Student
2012		University	Student	

POSTDOCTORAL FELLOWS SUPERVISED OR MENTORED:

Dates	Name	Program or School	Role	Current Position
2010- present	Chi-Ling Fu	Immunology/ Urology	Postdoctoral Fellow	Postdoctoral Fellow
2010- present	Yi-Ju Hsieh	Urology	Postdoctoral Fellow	Postdoctoral Fellow
2011- 2012	Debalina Ray	Urology	Postdoctoral Felllow	Postdoctoral Fellow (UCSF)
2011- present	Justin Odegaard	Pathology	Fellow	Fellow
2011- 2012	Robert Payne	Pediatric Urology	Research Fellow	Clinical Fellow

Mentor, Asian Interactive Mentoring Program (Stanford), 2009-present

Mentor for 5 Asian American sophomores since 2009.

Mentor, Stanford Immersion in Medicine Series, 2011-present

Mentor for 5 sophomores who observed surgery and shadowed in clinic.

Pre-Major Advisor for Stanford Freshmen, 2011-2012

Advisor for 6 Stanford undergraduate freshmen.

GRANTS AND AWARDS GIVEN TO MENTORED TRAINEES

Kim Thai

Stanford University Undergraduate Advising and Research Major Grant, 2010

Chi-Ling Fu, Ph.D.

NIH Immunology Training Grant (Molecular and Cellular Immunobiology, 5 T32 Al07290), 2010

Justin Odegaard, M.D., Ph.D.

Stanford Institute for Immunity, Transplantation, and Infection and Beckman Center for Molecular and Genetic Medicine Young Investigator Award, 2011

Stanford Society of Physician Scholars Collaborative Research Grant, 2012 (with Luke Pennington)

Luke Pennington, B.S.

Stanford University School of Medicine Medical Scholars Research Program Award, 2012

Stanford Society of Physician Scholars Collaborative Research Grant, 2012 (with Luke Pennington)

Brittany Bankston

Stanford Bio-X Undergraduate Summer Research Program Award, 2012

Monica Richardson, M.D., M.P.H.

American Medical Association Foundation Seed Grant Award, 2013

Simon Conti, M.D.

2nd place, Best Basic Science Abstract, 2013 Northern California Urology Residents' Research Seminar

Thien-Linh Le

Stanford Bio-X Undergraduate Summer Research Program Award, 2013

Deborah Boyett

Stanford Vice Provost for Undergraduate Education Major Grant, 2013

Parameth Thiennimitr

Stanford University School of Medicine Dean's Postdoctoral Fellowship, 2013 Stanford Child Health Research Institute Postdoctoral Fellowship, 2013

Jared Honeycutt

Stanford Immunology Training Grant (Molecular and Cellular Immunobiology, T32 Al07290), 2013

MEDIA COVERAGE (SINCE 2009)

Renal and Urology News, "Gel Injection for Vesicoureteral Reflux is Highly Effective", January 13, 2010.

Family Circle Magazine, Kid's Health Column, Q&A, March 2010 issue. "My 7-year-old son still wets the bed. Should I be concerned?"

NHS Economic Evaluation Database, Centre for Reviews and Dissemination, January 27, 2010, summary of "Outcomes and cost analysis of pyeloplasty for antenatally diagnosed ureteropelvic junction obstruction using Markov models".

KTVU FOX-2 News, "A Cause to Celebrate", Lucile Packard Children's Hospital 20th Anniversary Celebration, June 6, 2011. Featured story on robotic surgery at Packard (program headed by Michael Hsieh).

Urology Times, "Pediatricians Delaying Referral of VUR Patients", March 2012.

Lucile Packard Children's Hospital Physician Update, "Pediatric Urology Service Ramps Up Robotic Surgery Program", Fall 2011.

Berkeley Bioengineering Bulletin, "Starting Up: MTM grad launches Gauss Surgical", Spring 2012.

Scope Blog (scopeblog.stanford.edu), "A good mouse model for a bad worm", Bruce Goldman, March 30, 2012.

www.lpch.org, "Global Impact: Training for Robotic Surgeries in India", September 3, 2012.

American Urological Association Daily Scope, "Research Wednesdays: Honoring AUA's Foundation Scholars", October 3, 2012.

New York Times, "When Robotic Surgery Leaves Just a Scratch", November 18, 2012.

Economist Intelligence Unit, "Smart Systems, Smarter Doctors: Humans and Machines in Healthcare", February 2013.

Academia.edu Blog, "Open Access to Research: A Remedy for Disease?: Spotlight on Dr. Mike Hsieh, Stanford University", February 26, 2013.

RESEARCH SUPPORT

American Urological Association Foundation Research Scholars Program Fellowship (Mentor: Dolores J. Lamb, Ph.D.) 2008-2009.

Project Title: "Definition of the Essential Genetic Alterations in Gonadal Dysgenesis"

The primary goal of this project is to define the essential chromosomal alterations which cause human gonadal dysgenesis by recapitulating the phenotype in chromosome engineered mice.

Society of Pediatric Urology Research Grant (Mentor: James Versalovic, M.D., Ph.D.) 2008-2010.

Project Title: "Probiotics-Mediated Suppression of Vaginal Biofilm Function and Pediatric Bacteriuria"

The main objectives of this study are to: 1) to delineate the *in vitro* effects of probiotic *L. reuteri* and *L. rhamnosus* LuxS/AI-2-dependent signaling on vaginal epithelial biofilm formation and biofilm-related antimicrobial activity and 2) to define the *in vivo* and *ex vivo* effects of probiotic *Lactobacillus* on bacteriuria and vaginal epithelial biofilm formation in girls with spina bifida.

Pilot Early Career Award, Stanford Pediatric Research Fund, Spectrum Child Health Research, 2010-2011.

Project Title: "The Role of Alternatively Activated Macrophages in Schistosomal Bladder Fibrosis"

The aim of this project is to develop reliable relevant mouse models of urinary schistosomiasis. This will facilitate the use of mouse-specific reagents, including transgenic mouse strains, to enhance understanding of the inflammatory mechanisms of schistosomal bladder fibrosis.

1-K08-DK087895-01 06/01/10-05/31/14 **NIH/NIDDK**

Project Title: "Estrogenic Modulation of Genitourinary Epithelial-Probiotic Cross-Talk" This proposal will examine how probiotic biofilms grow on genitourinary epithelium, and how probiotics, estrogen, genitourinary epithelium, and natural killer T cells interact to determine which bacteria grow in the female genitourinary tract.

Stanford Cancer Center Translational Science Development Cancer Research Award, 9/1/10-8/31/11

Project Title: "Novel Anti-Cancer Peptoids as Potential Therapeutic Drugs for Bladder Cancer". Role: Co-PI.

This project will test the anticancer properties of peptoids in animal models of bladder cancer.

Center for Biomedical Imaging at Stanford (CBIS) Seed Funding for Imaging Research or Educational Projects, 8/1/10-7/31/11

Project Title: "Single Cell Magnetic Resonance Imaging of Infections Using Bacterial Magnetite". Role: Pl.

The aims of this study are to: optimize the magnetotactic properties of uropathogenic bacteria, analyze the temporal and spatial kinetics of IBC formation in the bladder and during ascending infection, and define how biofilm-related genes modulate IBC formation at the single cell level.

Business Association of Stanford Entrepreneurial Students (BASES) Forge Grant, 1/27/11-1/26/12

Project Title: "Design of a Novel Haptic Interface for Robotic Surgery" Role: Pl.

The purpose of this project is to design an interface that provides haptic feedback at the surgeon machine interface of a robotic surgical system. Initial testing will evaluate the role of haptic feedback on training and performance in the surgical setting.

UCSF Resource Allocation Program T1 Translational Catalyst Program for the Development of Diagnostics and Therapeutics, Phases I-III, 11/15/10-11/14/11

Project Title: "Development of a Rapid Diagnostic Tool for Detecting Schistosome Infection and Assessing Schistosome Worm Burden in Urine and Blood Samples". Role: Co-Investigator. The proposed work will develop a point-of-care urine or blood-based diagnostic test for schistosomiasis.

Stanford Center for Clinical Human Immunology Pilot Project Grant, U19, 2011-2012, Project Title: "Mechanisms of Bacteria-Induced Vaginal CD1d Signaling". Role: PI. The aim of this study is to identify uropathogenic *E. coli* and commensal *Lactobacillus* genes which regulate human vaginal CD1d activity.

UBS Optimus Foundation Global Health Research Innovation Program, 2011-2013, Project Title: "A New Field Assay to Diagnose and Monitor Schistosomiasis". Role: PI. This project will generate a point-of-care urine or blood-based diagnostic test for schistosomiasis.

UCSF Resource Allocation Program T1 Translational Catalyst Program for the Development of Diagnostics and Therapeutics, Phase IV: Award Toward Translational Development

3/28/11-6/30/12

Project Title: "Development of a Rapid Diagnostic Tool for Detecting Schistosome Infection and Assessing Schistosome Worm Burden in Urine and Blood Samples". Role: Co-investigator. The proposed work will develop a point-of-care urine or blood-based diagnostic test for schistosomiasis.

Stanford Consortium for Innovation, Design, Evaluation and Action (C-IDEA), 2011-2012, "Development of a Field Assay to Diagnose and Monitor Schistosomiasis". Role: Pl.

Institute for Stem Cell Biology and Regenerative Medicine at Stanford Stinehart/Reed Award, 2011-2012, "Effects of Schistosoma haematobium infestation on Hedgehog/Wnt control of bladder epithelial stem cell proliferation". Role: Co-investigator.

Stanford Child Health Research Institute Pilot Award, 2011-2012, "Defining the Roles of IL-4 and Alternatively Activated Macrophages in Urinary Tract Co-Infection". Role: PI.

Intuitive Surgical Technology Research Grant Proposal, 2012, "Human Motor Performance and Adaptation in Robot-Assisted Surgery" (full proposal). Role: Co-investigator.

Stanford University, Woods Institute for the Environment-Environmental Venture **Projects**, 2013, "New Solutions for Global Control of Parasitic Infections: the Case of Schistosomiasis". Role: Pl.