Stanford



Hsi-Yang Wu

NIH Biosketch available Online

Curriculum Vitae available Online

Bio

BIO

Dr. Hsi-Yang Wu is a board certified Pediatric Urologist who treats all aspects of pediatric urology. He has a special interest in urinary incontinence and complex urinary reconstruction related to neurogenic bladder, renal transplantation and bladder exstrophy, as well as kidney stones and pediatric urologic oncology. He is the program director for the Pediatric Urology fellowship at Lucile Packard Children's Hospital and enjoys teaching the art of caring for children and their families.

ACADEMIC APPOINTMENTS

- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Program Director, Pediatric Urology Fellowship, (2009- present)

HONORS AND AWARDS

- Magna cum laude, Harvard College (1989)
- American Foundation for Urologic Disease Summer Student Scholarship, University of Pennsylvania (1990)
- Pfizer Scholars in Urology, UCSF (1998)
- Arline and Pete Harman Endowed Faculty Scholar, Stanford University (2012)

PROFESSIONAL EDUCATION

- A.B., Harvard College , Chemistry (1989)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am interested in how the brain matures to control the bladder and external sphincter to achieve urinary continence. Using functional MRI of the brain, we are investigating if certain patterns of activity will predict which children will respond to therapy for incontinence.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Pediatric Urology (Fellowship Program)

Publications

PUBLICATIONS

- **Ureterostomy as an alternative to ileal conduits in pediatric kidney transplantation.** *Clinical transplantation*
  Brubaker, A. L., Wu, H., Lee, A., Vuong, P., Stoltz, D. J., Chaudhuri, A., James, G., Grimm, P. C., Concepcion, W., Gallo, A. E.
  2020: e13777

- **When does vesicoureteral reflux in pediatric kidney transplant patients need treatment?** *Pediatric transplantation*
  Wu, H., Concepcion, W., Grimm, P. C.
  2018: e13299

- **Predictors of poor neonatal outcomes in prenatally diagnosed multicystic dysplastic kidney disease.** *Journal of perinatology : official journal of the California Perinatal Association*
  Balasundaram, M., Chock, V. Y., Wu, H. Y., Blumenfeld, Y. J., Hintz, S. R.
  2018

- **Young rats exhibit an age- and sex-dependent bladder response to alpha-antagonists but not beta-agonists** *JOURNAL OF PEDIATRIC UROLOGY*
  Chien, C., Wu, H.
  2016; 12 (2)

- **Cell Type- and Tissue-specific Enhancers in Craniofacial Development** *bioRxiv*
  Rajderkar, S. S.
  2023

- **2 year outcome for 8 year old female managed with partial cystectomy for primary bladder clear cell carcinoma.** *Urology case reports*
  Diaz, E. C., Velasquez, M. G., Kao, C., Wu, H.
  2019; 26: 100948

- **Editorial Comment.** *The Journal of urology*
  Wu, H.
  2019; 201 (1): 180–81

- **Commentary on "Pediatric urology fall congress 2017"** *Journal of pediatric urology*
  Cooper, C., Herndon, C. D., Wu, H. Y.
  2018; 14 (4): 316

- **Book review of 'Perspectives in Pediatric Pathology, Volume 30. Development and pathology of the pediatric testis'.** *Journal of pediatric urology*
  Wu, H. Y.
  2017; 13 (5): 531

- **Commentary on 'Pediatric urology fall congress 2016'.** *Journal of pediatric urology*
  Cooper, C. S., Herndon, C. D., Wu, H. Y.
  2017; 13 (4): 340

- **Sex differences in neonatal and young adult rat lower urinary tract function caused by bladder reduction.** *Journal of pediatric urology*
  Chien, C., Chang, H. H., Wu, H.
  2015; 11 (4): 197 e1-7

- **Commentary to 'Astrocyte elevated gene-1 overexpression in histologically favorable Wilms tumor is related to poor prognosis'.** *Journal of pediatric urology*
  Wu, H.
  2014; 10 (2): 323-324

- **Can evidence-based medicine change toilet-training practice?** *Arab journal of urology*
  Wu, H.
  2013; 11 (1): 13-18

- **The surgical management of paediatric bladder and prostate rhabdomyosarcoma.** *Arab journal of urology*
  Wu, H.
  2013; 11 (1): 40-46
- **Achieving urinary continence in children** *NATURE REVIEWS UROLOGY*
  Wu, H.
  2010; 7 (7): 371-377
- **Differential Effect of L-Cysteine in Isolated Whole-Bladder Preparations from Neonatal and Adult Rats** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
  Buyuknacar, H. S., Gocmen, C., de Groat, W. C., Kumcu, E. K., Wu, H., Onder, S.
  2010; 333 (1): 228-235
- **Top-down Approach for Evaluation of Urinary Tract Infection** *UROLOGY*
  Wu, H., Shortliffe, L. D.
  2010; 75 (3): 514-515
- **Bladder Reduction Surgery Accelerates the Appearance of Spontaneous Voiding in Neonatal Rats** *JOURNAL OF UROLOGY*
  Ng, Y., Wu, H., Lee, K. H., Yeung, C. K.
  2010; 183 (1): 370-377
- **Genitourinary rhabdomyosarcoma: Which treatment, how much, and when?** *JOURNAL OF PEDIATRIC UROLOGY*
  Wu, H., Snyder, H. M., Womer, R. B.
  2009; 5 (6): 501-506
- **Quantitative Ultrasound Renal Parenchymal Area Correlates With Renal Volume and Identifies Reflux Nephropathy** *60th Annual Meeting of the American-Academy-of-Pediatrics/International-Childrens-Continence-Society*
  Wong, I. Y., Copp, H. L., Clark, C. J., Wu, H., Shortliffe, L. D.
  ELSEVIER SCIENCE INC.2009: 1683–87
- **Postnatal Development of Voiding Reflexes and Bladder Smooth Muscle Properties: An Overview of Recent Findings** *LUTS-LOWER URINARY TRACT SYMPTOMS*
  Ng, Y., Wu, H.
  2009; 1: S74-S76
- **Activation of the nitric oxide-cGMP pathway reduces phasic contractions in neonatal rat bladder strips via protein kinase G** *AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY*
  Artim, D. E., Kullmann, F. A., Daugherty, S. L., Wu, H., de Groat, W. C.
  2009; 297 (2): F333-F340
- **When is prior ureteral stent placement necessary to access the upper urinary tract in prepubertal children?** *JOURNAL OF UROLOGY*
  Corcoran, A. T., Smaldone, M. C., Mally, D., Ost, M. C., Bellinger, M. F., Schneck, F. X., Docimo, S. G., Wu, H.
  2008; 180 (4): 1861-1863
- **Computerized tomography findings in pediatric renal trauma - Indications for early intervention?** *JOURNAL OF UROLOGY*
  Cannon, G. M., Polsky, E. G., Smaldone, M. C., Gaines, B. A., Schneck, F. X., Bellinger, M. F., Docimo, S. G., Wu, H.
  2008; 179 (4): 1529-1532
- **Commentary to 'Pediatric flexible ureteroscopic lithotripsy as first line approach'.** *Journal of urology*
  Wu, H. Y.
  2008; 180 (6): 2619
- **Is ureteroscopy first line treatment for pediatric stone disease?** *JOURNAL OF UROLOGY*
  Smaldone, M. C., Cannon, G. M., Wu, H., Bassett, J., Polsky, E. G., Bellinger, M. F., Docimo, S. G., Schneck, F. X.
  2007; 178 (5): 2128-2131
- **Ureteroscopic management of lower-pole stones in a pediatric population** *24th World Congress of Endourology*
  Cannon, G. M., Smaldone, M. C., Wu, H., Bassett, J. C., Bellinger, M. F., Docimo, S. G., Schneck, F. X.
  MARY ANN LIEBERT INC.2007: 1179–82

- **Dirt bikes and all terrain vehicles: The real threat to pediatric kidneys** *58th Annual Meeting of the American-Academy-of-Pediatrics*
  Wu, H., Gaines, B. A.
  ELSEVIER SCIENCE INC.2007: 1672–74
- **Smooth muscle and neural mechanisms contributing to the downregulation of neonatal rat spontaneous bladder contractions during postnatal development** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*
  Ng, Y., de Groat, W. C., Wu, H.
  2007; 292 (5): R2100-R2112
- **Acute renal failure from xanthine nephropathy during management of acute leukemia** *PEDIATRIC NEPHROLOGY*
  LaRosa, C., McMullen, L., Bakdash, S., Ellis, D., Krishnamurti, L., Wu, H., Moritz, M. L.
  2007; 22 (1): 132-135
- **Muscarinic regulation of neonatal rat bladder spontaneous contractions** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*
  Ng, Y., de Groat, W. C., Wu, H.
  2006; 291 (4): R1049-R1059
- **Dysfunctional elimination syndrome is a negative predictor for vesicoureteral reflux.** *Journal of pediatric urology*
  Colen, J., Docimo, S. G., Stanitski, K., Sweeney, D. D., Wise, B., Brandt, P., Wu, H.
  2006; 2 (4): 312-315
- **Maternal separation uncouples reflex from spontaneous voiding in rat pups** *JOURNAL OF UROLOGY*
  Wu, H. Y., de Groat, W. C.
  2006; 175 (3): 1148-1151
- **Urinary ascites without hydronephrosis in a neonate with urethral atresia.** *Urology*
  Stein, R. J., Noh, P. H., Wu, H.
  2005; 66 (2): 432-?
- **Wilms' tumor management** *CURRENT OPINION IN UROLOGY*
  Wu, H. Y., Snyder, H. M., D'Angio, G. J.
  2005; 15 (4): 273-276
- **Commentary to 'Dysfunctional elimination symptoms in childhood and adulthood'.** *Journal of urology*
  Wu, H. Y.
  2005; 174 (4): 1628
- **Pediatric urologic oncology: bladder, prostate, testis** *UROLOGIC CLINICS OF NORTH AMERICA*
  Wu, H. Y., Snyder, H. M.
  2004; 31 (3): 619-?
- **Surgical management of children with urolithiasis** *UROLOGIC CLINICS OF NORTH AMERICA*
  Wu, H. Y., Docimo, S. G.
  2004; 31 (3): 589-?
- **Decrease in maximal force generation in the neonatal mouse bladder corresponds to shift in myosin heavy chain isoform composition** *JOURNAL OF UROLOGY*
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- **Testis histopathology in boys with cryptorchidism correlates with future fertility potential** *JOURNAL OF UROLOGY*
  Rusnack, S. L., Wu, H. Y., Huff, D. S., Snyder, H. M., Carr, M. C., Bellah, R. D., Zderic, S. A., Canning, D. A.
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- **Spontaneous regression of cystic dysplasia of the testis** *JOURNAL OF UROLOGY*
  Thomas, A. D., Wu, H. Y., Canning, D. A., Snyder, H. M.
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- **Genitourinary malformations in chromosome 22q11.2 deletion** *JOURNAL OF UROLOGY*

Wu, H. Y., Rusnack, S. L., Bellah, R. D., Plachter, N., McDonald-McGinn, D. M., Zackai, E. H., Canning, D. A.
2002; 168 (6): 2564-2565

- **Spontaneous resolution of vesicoureteral reflux: A 15-year perspective** *JOURNAL OF UROLOGY*
  Schwab, C. W., Wu, H. Y., Selman, H., Smith, G. H., Snyder, H. M., Canning, D. A.
  2002; 168 (6): 2594-2599
- **The ascending testis and the testis undescended since birth share the same histopathology** *JOURNAL OF UROLOGY*
  Rusnack, S. L., Wu, H. Y., Huff, D. S., Snyder, H. M., Zderic, S. A., Carr, M. C., Canning, D. A.
  2002; 168 (6): 2590-2591
- **Buccal mucosal grafts: Lessons learned from an 8-year experience** *Joint Meeting of the Pediatric-Academic-Societies/American-Academy-of-Pediatrics*
  Metro, M. J., Wu, H. Y., Snyder, H. M., Zderic, S. A., Canning, D. A.
  ELSEVIER SCIENCE INC.2001: 1459–61
- **The histopathology of iatrogenic cryptorchid testis: An insight into etiology** *95th Annual Meeting of the American-Urological-Association*
  Fenig, D. M., Snyder, H. M., Wu, H. Y., Canning, D. A., Huff, D. S.
  ELSEVIER SCIENCE INC.2001: 1258–61
- **High urinary flow accelerates renal injury in young rats with partial unilateral ureteral obstruction** *JOURNAL OF UROLOGY*
  Nguyen, H. T., Wu, H. Y., Baskin, L. S., Kogan, B. A.
  2000; 163 (6): 1904-1907
- **Understanding bladder regeneration: Smooth muscle ontogeny** *Annual Meeting of the Section on Urology, of the American-Academy-of-Pediatrics*
  Wu, H. Y., Baskin, L. S., Liu, W. H., Li, Y. W., Hayward, S.
  ELSEVIER SCIENCE INC.1999: 1101–5
- **Ultrastructural smooth muscle ontogeny of the rat bladder** *International Bladder Research Congress*
  Wu, H. Y., Baskin, L. S., Blakey, C., Goodman, J., Cunha, G. R.
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- **Long-term benefits of early neurosurgery for lipomyelomeningocele** *JOURNAL OF UROLOGY*
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- **Neurogenic bladder dysfunction due to myelomeningocele: Neonatal versus childhood treatment** *JOURNAL OF UROLOGY*
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  Wu, H. Y., Broderick, G. A., Suh, J. K., Hypolite, J. A., LEVIN, R. M.
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  Huff, D. S., Wu, H. Y., Snyder, H. M., Hadziselimovic, F., BLYTHE, B., Duckett, J. W.
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