



Stanford UROLOGY NEWS

FALL 2009/WINTER 2010

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Mike Hsieh Joins Urology

Mike Hsieh joined the Department of Urology on August 15, 2009. Originally from Pittsburgh, Pennsylvania, Dr. Hsieh received his B.S. in Biology from Stanford in 1993 and his M.D. and Ph.D. (in Microbiology and Immunology) degrees from Thomas Jefferson University Medical School in 2001. Dr. Hsieh completed his residency in Urology at the University of California San Francisco and his fellowship in Pediatric Urology at Texas Children's Hospital in Houston. He specializes in all aspects of pediatric urology, and has extensive training in laparoscopic techniques. Dr. Hsieh is also a promising scientist in the field of urinary tract infections and has interests in continuing his research here at Stanford on the microbiology and immunology of the genitourinary tract.



Drs. Harcharan Gill, Mark Gonzalgo and John Leppert demonstrating the Da Vinci robotic system at Stanford Football Fanfest

Fans "Test Drive" Robotics at Stanford Football Fanfest

The Stanford Urology Program in Robotic Surgery was featured at a September home football game against the University of Washington. In conjunction with the Lance Armstrong Foundation and Intuitive Surgical, this event let fans "test drive" a Da Vinci robotic system and helped increase prostate cancer awareness. Several Urology faculty members were on hand to answer questions and help fans operate at the console of the robotic system. The Stanford Football Fan Fest began 3 hours prior to kickoff with food, interactive games, and free admission. This successful event was capped with a 34-14 win over Washington!

Message from the Chair

Friends and
Colleagues:

The fall has been a busy time for meetings with the American Academy of Pediatrics (AAP) in Washington DC followed closely by the Western Section of the American Urological Association meeting in Las Vegas. The department was represented by 14 resident, fellow, and faculty presentations at the Western Section. URO-2 Resident James Yu won the 3rd place Miley B. Wesson/Olympus GYRUS ACMI Resident Essay Contest and Urooncology Fellow (Chief Resident from 2008) Steven Chang won 1st place in the Joseph F. McCarthy / Olympus GYRUS ACMI Physician Essay Contest. The faculty and pediatric fellow presented 6 papers at the AAP and Dr. Yang Wu Associate Professor received 2nd prize in basic science for his presentation entitled Neonatal Bladder Reduction Surgery Alters Brain Regulation of Voiding.

We held our 2nd International video-conference focused this time on pediatric urology with the National Kidney Transplant Institute (NKTI) in Manila, Philippines. At the invitation of the Chief of the NKTI, I participated in the 2009 Asian Horizons in Urology Meeting of the 11th Asia-Pacific Association of Pediatric Urology, 6th East Asian Society of Endourology, and 52th Philippine



Honors and Awards Faculty

Inder Perakash, M.D. was recently elected to a six-year term as a member of the Education Committee of the International Continence Society.

Hsi-Yang Wu, M.D. won second prize in the Basic Science category at the 2009 American Academy of Pediatrics, Section on Urology meeting for the paper, "Neonatal bladder reduction surgery alters brain regulation of voiding." The collaborative research effort with Dr. YK Ng and Prof. CK Yeung at Chinese University of Hong Kong investigated how early changes in bladder function led to immediate and long term changes in bladder storage and emptying. This paper will be published in the Journal of Urology in January 2010.

Fellows

Steve Chang, MD won the top two awards at the 2009 Western Section Meeting of the American Urological Association: First Prize in the Joseph F. McCarthy Physician/Olympus Gyrus ACMI Resident Essay Contest for his paper entitled, "The Impact of Common Medications on Serum Prostate Specific Antigen Levels: Analysis of the National Health and Nutrition Examination Survey" and the James L. Goebel Grand Prize for his poster entitled "Cost-Effectiveness Analysis of Nephron-Sparing Options in the Management of Small Renal Masses."



Residents

Christopher Elliott, M.D., Ph.D. will be the first fellow in the Stanford Fellowship in Female Pelvic Medicine and Reconstructive Surgery when it begins on July 1, 2010. This unique fellowship is approved by both the American Board of Urology and the American Board of Obstetrics and Gynecology. The fellowship will cover the domains of uroynamics, neuro urology, urinary incontinence, pelvic pain, and pelvic organ prolapse.



Tin Ngo, MD received multiple nominations for the Arnold P. Gold Foundation's "Humanism and Excellence in Teaching Award" this year. Clinical medical students nominate residents for the award. These nominations reflect Tin's commitment to excellence in medical education and to the humanistic mission of the Stanford University School of Medicine.



Dr. Geoff Sonn's paper on confocal laser endomicroscopy of the bladder was featured on the cover of the October issue of the Journal of Urology. The paper entitled, "Optical Biopsy of Human Bladder Neoplasia With In Vivo Confocal Laser Endomicroscopy" reported the first study, led by Dr. Joseph Liao, of in vivo confocal laser endomicroscopy in the urinary tract. This novel imaging modality demonstrated clear differences between normal bladder urothelium, low grade and high grade tumors in real-time. Further investigation may demonstrate confocal endomicroscopy to be a valuable adjunct to cystoscopy for bladder tumor diagnosis.



Stanford Urology Continues to Win at WSAUA

The Western Section meeting of the American Urological Association took place in Las Vegas, NV, from October 25 to October 29. Several of our residents made presentations at this meeting. Congratulations to **Steve Chang (PGY-8)**, **Chris Elliot (PGY-6)**, **Geoff Sonn (PGY-5)**, **William Tu (PGY-5)**, **James Yu (PGY-4)** and **Tin Ngo (PGY-3)**, who participated and presented abstracts. We are very proud that Steve Chang and James Yu received special awards: Steve won the first prize for the "best poster of the meeting" and first place in Joseph McCarthy essay contest and James placed third in the Miley Wesson resident essay contest for his essay entitled, "Green Trash in the Operating Room: Reducing Regulated Medical Waste."

Stanford Biodesign and Urology – Delivering High Tech Solutions to Patient Care

Chief Resident (2008-09) Tatum Tarin, MD has commenced the first of his two year urooncology fellowship Memorial Sloan Kettering Cancer Center. Tatum was also a Stanford Biodesign Specialty Fellow (2006-07). Stanford Biodesign's mission is to train students, fellows and faculty in the Biodesign Process: a systematic approach to needs finding and the invention and implementation of new biomedical technologies, including accelerating the delivery of new technologies into patient care.



2nd National Kidney & Transplantation Institute - Stanford Teleconference

The second trans-pacific video teleconference between the Stanford Department of Urology and the National Kidney and Transplantation Institute (NKTI) in Manila, Philippines was held on September 26, 2009. This event utilized the latest in IT video capability to carry out live case presentations between Stanford faculty and members of the NKTI. This multi-disciplinary conference focused on topics in pediatric urology oncology and was a tremendous success on both sides of the Pacific. In Manila, Dr. Dante Dator, Chairman of Urology, and Dr. JV Prodigalidad led the meeting at NKTI. Stanford participants were represented by the Pediatric Division (Dr. Shortliffe, Chief, Drs. Hsieh, Kennedy, Hsi-Yang Wu as well as Pediatric Fellow Curtis Clark, MD and Resident William Tu, MD). The live video feed and conference continues to be a hospital-wide event at the NKTI. During the conference, four cases were discussed in detail with case histories, images and pathology presented by both NKTI and Stanford faculty. The interchange included discussion of protocol at both institutions. Due to the success of this partnership, conferences will continue to be held quarterly, and include topics such as oncology and stone disease.

Stanford Urology Faculty Receives 5 DoD Idea Awards and 1 DoD Synergy Award

Drs. Donna Peehl and **James Brooks**, and their respective collaborators, have received



a combined total of five Idea Awards from the Department of Defense (DoD) Prostate Cancer Research Program for studies intended to: ; (1) identify novel cancer-specific biomarkers (Peehl); (2) identify epigenetic changes involved

in prostate cancer development (Peehl); (3) develop nanoparticles to serve as a contrast agent that specifically recognizes prostate cancer cells (Peehl); (4) investigate the biological and clinical roles of an androgen receptor splice variant in the primary adenocarcinomas of the prostate (Peehl), and (5) isolate to purity single cancer cells from the circulation of patients with prostate cancer (Brooks). The DoD also awarded a Synergy Award to Dr. Peehl and her collaborators to optimize a magnetic resonance spectroscopy-compatible, three-dimensional tissue culture reactor to identify hyperpolarized molecular imaging biomarkers for prostate cancer.



Recent Grants and Clinical Trials

Dr. James Brooks and his collaborators have received Stimulus money (ARRA from the NIH) 9/01/09- 8/31/10 Cancer Genome Atlas. Their goal is to comprehensively characterize the genomic alterations in diverse cancers. **Dr. Brooks** also has received a renewal of a grant from the Canary Foundation for the Prostate Cancer Active Surveillance Study (PASS) 10/01/09-9/30/10.

Drs. Craig Comiter and **Christopher Payne** are co-PIs on five clinical trials: 2 studying interstitial cystitis; 1 studying Male Stress Urinary Incontinence; and 2 studying urinary frequency, urgency and

incontinence with sacral neuromodulation.

Dr. Donna Peehl and her collaborators have received Idea Awards from the Department of Defense (DoD) Prostate Cancer Research Program for: (1) "Identification of Epigenetic Changes in Prostate Cancer Using Induced Pluripotent Stem Cells" (PI: Peehl; co-investigators: Drs. **Mark Gonzalgo** and Joseph Wu, Asst. Prof. in Cardiovascular Medicine and Radiology, and Hongjuan Zhao, Sr. Research Scientist, Peehl Lab. 4/1/10 - 3/31/13); (2) "The Biological and Clinical Significance of Androgen Receptor Variants" (PI: Peehl; co-investigators: Drs. **Jesse McKenney** and Marc Coram (Asst. Prof. in Biostatistics) and Hongjuan Zhao (Peehl Lab) 4/1/10 - 3/31/13); (3) "Glycoproteomic Analysis of Primary Prostate Tissues for Biomarker Discovery" (PI: Carolyn Bertozzi, UC Berkeley, co-investigator: Peehl 8/25/09 - 9/24/12). (4) "SPIO-Loaded VLPs as Prostate Cancer Specific MRI Contrast Agents" (PI: James Swartz (Prof. of Chemical Engineering and Bioengineering); co-investigator: Peehl 4/1/10 - 3/31/13). Additionally, **Dr. Peehl** as co-Principal Investigator, with John Kurhanewicz and Sabrina Ronen of UCSF, received a Synergy Award from the DoD 4/1/10 - 3/31/13 for "Discovery of Hyperpolarized Molecular Imaging Biomarkers in a Novel Prostate Tissue Slice Culture Model," and Dr. Peehl as PI received funding from RadioRx, Inc. 7/1/09 - 6/30/10 to determine whether RadioRx compounds synergistically kill cancer cells with radiation in in vitro and in vivo models. In August, **Dr. Peehl** also received a second-year renewal of the Prostate Cancer Foundation Challenge Award for her participation in the "Consortium for the Development and Analysis of Relevant Prostate Cancer Model Systems". The consortium is led by Dr. Bob Vessella of the University of Washington and includes investigators from UCLA, Harvard and the University of Michigan.

Dr. Zijie Sun and his collaborators received NIH funding to study the roles of androgen receptor and its co-regulators.

Retirement Announcements

The Department of Urology bids farewell to retiring faculty members **Rodney U. Anderson, M.D.** and **Christos E. Constantinou, Ph.D.** Due to his extended research interest and activities,

Dr. Anderson has been recalled to active duty. He is finishing up NIH grant investigations concerning chronic pelvic pain, innovative electrical stimulation applications for over-active and neurogenic bladder, and has recently started a project of Botox injections of the urinary bladder to treat neurogenic bladder disorders in patients suffering from Parkinson's Disease. **Dr. Constantinou's** distinguished career includes being conferred the CE Alken International Prize for Outstanding Contribution to Urology. For information about his research interests, see his Stanford community profile, http://med.stanford.edu/profiles/Christos_Constantinou



Urology Faculty FY 2009 Peer Reviewed Publications

1. **Anderson RU**, Orenberg EK, Morey A, Chavez N, Chan CA. Stress induced hypothalamus-pituitary-adrenal axis responses and disturbances in psychological profiles in men with chronic prostatitis/chronic pelvic pain syndrome. *J Urol.* 2009 Nov; 182(5): 2319-24. Epub 2009 Sep 16.
2. **Anderson RU**, Sawyer T, Wise D, Morey A, Nathanson BH. Painful myofascial trigger points and pain sites in men with chronic prostatitis/chronic pelvic pain syndrome. *J Urol.* 2009 Dec;182(6):2753-8. Epub 2009 Oct 17.
3. Appari M, Werner R, Wunsch L, Cario G, Demeter J, Hiort O, Riepe F, **Brooks JD**, Holterhus PM. Apolipoprotein D (APOD) is a putative biomarker of androgen receptor function in androgen insensitivity syndrome. *J Mol Med.* 2009 Jun;87(6):623-32. Epub 2009 Mar 30.
4. Artim DE, Kullmann FA, Daugherty SL, **Wu HY**, de Groat WC. Activation of the nitric oxide-cGMP pathway reduces phasic contractions in neonatal rat bladder strips via protein kinase G. *Am J Physiol Renal Physiol.* 2009 Aug;297(2):F333-40. Epub 2009 Jun 3.
5. Banez LL, Sun L, Trock BJ, Han M, Partin AW, Aronson WJ, Terris MK, **Presti JC Jr**, Kane CJ, Amling CL, Moul JW, Freedland SJ. Body mass index and prostate specific antigen as predictors of adverse pathology and biochemical recurrence after prostatectomy. *J Urol.* 2009 Aug; 182(2):491-6. discussion 496-8. Epub 2009 Jun 13.
6. Banez LL, Terris MK, Aronson WJ, **Presti JC Jr**, Kane CJ, Amling CL, Freedland SJ. Race and time from diagnosis to radical prostatectomy: does equal access mean equal timely access to the operating room? Results from the SEARCH database. *Cancer Epidemiol Biomarkers Prev.* 2009 Apr;18(4):1208-12. Epub 2009 Mar 31.
7. Beamon CR, Mazer C, Salkini MW, Phull HS, **Comiter CV**. The effect of sildenafil citrate on bladder outlet obstruction: a mouse model. *BJU Int.* 2009 Jul; 104(2):252-6. Epub 2008 Dec 19.
8. Bhamre S, Sahoo D, Tibshirani R, Dill DL and **Brooks JD**. Temporal changes in gene expression induced by sulforaphane in human prostate cancer cells. *Prostate* 2009 Feb 1;69(2) 181-190.
9. Bosev D, Nicoll LM, Bhagan L, Lemyre M, **Payne CK**, **Gill H**, Nezhad C. Laparoscopic management of ureteral endometriosis: the Stanford University hospital experience with 96 consecutive cases. *J Urol.* 2009 Dec; 182(6):2748-52. Epub 2009 Oct 17.
10. Breda A, Ogunyemi O, **Leppert JT**, Schulam PG. Flexible ureteroscopy and laser lithotripsy for multiple unilateral intrarenal stones. *Eur Urol.* 2009 May;55(5):1190-6. Epub 2008 Jun 13
11. Breda A, Treat EG, Haft-Candell L, **Leppert JT**, Harper JD, Said

Urological Association Annual Meetings. We hope to extend our conferences in the future to improve our learning of global urology.

As we enter this autumn of residency interviews, I reviewed our faculty educational diversity. Our faculty members now represent 15 different medical schools, 11 residencies, and 9 fellowships with experience at 7 other educational institutions, so we offer a diversity of educational training experiences including Fellowships in Pediatric Urology, Urogynecology and Neurourology, and Urooncology.

During these times of challenges within medicine we expand and consolidate our commitment to education and research. I hope that you will consider making a gift to the department so we may continue to support these future efforts.

I wish you and your family a joyful holiday season and a bright new year.

Linda M. Dairiki Shortliffe

- J. Raman S, Smith RB, Belledgrun AS, Schulam PG. Comparison of accuracy of 14-, 18- and 20-G needles in ex-vivo renal mass biopsy: a prospective, blinded study. *BJU Int.* 2009 Nov 2. Epub 2008 Jun 13.
12. Chan KS, Espinosa I, Chao M, Wong D, Ailles L, Diehn M, **Gill H, Presti J Jr**, Chang HY, van de Rijn M, **Shortliffe L**, Weissman IL. Identification, molecular characterization, clinical prognosis, and therapeutic targeting of human bladder tumor-initiating cells. *Proc Natl Acad Sci USA.* 2009 Aug 18;106(33):14016-21. Epub 2009 Aug 4.
13. Chang SL, Freedland SJ, Terris MK, Aronson WJ, Kane CJ, Amling CL, **Presti J Jr**. Freedom From a Detectable Ultrasensitive Prostate-specific Antigen at Two Years After Radical Prostatectomy Predicts a Favorable Clinical Outcome: Analysis of the SEARCH database. *Urology.* 2009 Oct 10. [Epub ahead of print]
14. Chang SL, **Gonzalzo ML**. Surgery: Laparoscopic prostatectomy: learning curve and cancer control. *Nat Rev Urol.* 2009 Jul;6(7): 361-2.
15. Chang SL, **Liao JC**, Shingal R. Decreasing use of luteinizing hormone-releasing hormone agonists in the United States is independent of reimbursement changes: a Medicare and Veterans Health Administration claims analysis. *J Urol.* 2009 Jul;182(1):255-60. Epub 2009 May 17.
16. **Chung BI**, Gill IS. Laparoscopic splenoarenal venous bypass for nutcracker syndrome. *J Vasc Surg.* 2009 May; 49(5):1319-23.
17. **Chung BI**, Sommer G and **Brooks JD**. "Clinical and Radiographic Anatomy of the Lower Urinary Tract and Male Genitalia." In **Campbell-Walsh Urology**, 10th Ed. A. J. Wein, L.R. Kavoussi, A. C. Novick, A. W. Partin and C. A. Peters (Eds.), Elsevier, Philadelphia, PA, In press, 2009.
18. **Chung BI**, Tarin TV, Ferrari M and **Brooks JD**. Comparison of prostate cancer tumor volume and cancer index in prediction of biochemical recurrence and cancer specific survival. *Urol Oncol.* 2009 Oct 16. [Epub ahead of print]
19. **Constantinou CE**. Dynamics of female pelvic floor function using urodynamics, ultrasounds and Magnetic Resonance Imaging (MRI). *Eur J Obstet Gynecol Reprod Biol.* 2009 May;144 Suppl 1:S159-65. Epub 2009 Mar 20.
20. Coop HL, Wong IY, Krishnan C, Malhotra S, **Kennedy WA**. Clinical presentation and urethral remnant pathology: implications for treatment. *J Urol.* 2009 Oct;182(4 Suppl):1921-4. Epub 2009 Aug 20.
21. Elliot CS, Shingal R, **Presti JC Jr**. The influence of prostate volume on prostate-specific antigen performance implications for the prostate cancer prevention trial outcomes. *Clin Cancer Res.* 2009 Jul 15;15(14):4694-9. Epub 2009 Jul 7.

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23. Gardner CD, Oelrich B, Liu JP, Feldman D, Franke AA, **Brooks JD**. Prostatic soy isoflavone concentrations exceed serum levels after dietary supplementation. *Prostate.* 2009 May 15; 69(7):719-26.
24. Gaster RS, Hall DA, Nielsen CH, Osterfeld SJ, Yu J, Mach KE, Wilson RJ, Murmann B, **Liao JC**, Gambhir SS, Wang SX. Matrix-insensitive protein assays push the limits of biosensors in medicine. *Nat Med.* 2009 Nov; 15(11):1327-32. Epub 2009 Oct 11.
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26. Guzzo TJ, Magheli A, Bivalacqua TJ, Nielsen ME, Attenello FJ, Schoenberg MP, **Gonzalzo ML**. Pathological Upstaging During Radical Cystectomy Is Associated With Worse Recurrence-free Survival in Patients With Bacillus Calmette-Guerin-refractory Bladder Cancer. *Urology.* 2009 Sep 15. [Epub ahead of print]
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28. Higgins JP, McKenney JK, **Brooks JD**, Argani P, Epstein JI. Recommendations for the reporting of surgically resected specimens of renal cell carcinoma: the Association of Directors of Anatomic and Surgical Pathology. *Hum Pathol.* 2009 Apr;40(4):456-63.
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31. **Hsieh MH**, Meng MV, Walsh TJ, Matthay KK, Baskin LS. Increasing Incidence of Neuroblastoma and Potentially Higher Associated Mortality of Children from Nonmetropolitan Areas: Analysis of the Surveillance, Epidemiology, and End Results Database. *J Pediatr Hematol Oncol.* 2009 Oct 27. [Epub ahead of print]
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Stanford Urology News is published for current and former faculty, residents, physicians, and friends of the Department.

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43. Ng YK, **Wu HY**, Lee KH, Yeung CK. Bladder Reduction Surgery Accelerates the Appearance of Spontaneous Voiding in Neonatal Rats. *J Urol.* 2009 Nov 13. [Epub ahead of print]
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