

CURRICULUM VITAE

Date: April 8, 2019

Name: Toby C. Chai, M.D.

Appointment: Professor in the Department of Urology
Professor in the Department of Obstetrics, Gynecology and Reproductive Sciences

School: Yale University School of Medicine

Education:

B.A. Johns Hopkins University (Natural Sciences) 1985

M.D. Indiana University School of Medicine 1989

M.A. (Honorary) Yale University 2015

Career/Academic Appointments:

2013 – Present Professor, Department of Urology, Yale School of Medicine, New Haven, CT

2013 – Present Professor, Department of Obstetrics, Gynecology and Reproductive Sciences, Yale School of Medicine, New Haven, CT

2007 – 2012 John D. Young Professor with Tenure, Department of Surgery, Division of Urology, University of Maryland School of Medicine, Baltimore, MD

2002 – 2007 Associate Professor with Tenure, Department of Surgery, Division of Urology, University of Maryland School of Medicine, Baltimore, MD

1997 – 2002 Assistant Professor, Department of Surgery, Division of Urology, University of Maryland School of Medicine, Baltimore, MD

1996 – 1997 Research Instructor, Department of Urology, University of Virginia, Charlottesville, VA

1995 – 1997 Postdoctoral American Foundation for Urological Diseases, (AFUD) Research Fellow, Department of Urology and Neuroscience, University of Virginia, Charlottesville, VA

1994 – 1995 Chief of Urology, Salem VAMC, Salem, VA

1991 – 1994 Resident in Urological Surgery, University of Michigan Medical Center Ann Arbor, MI

1989 – 1991 Resident in General Surgery, University of Michigan Medical Center Ann Arbor, MI

Administrative Positions

2013 – present Co-Director, Female Pelvic Medicine and Reconstructive Surgery Program, Yale New Haven Hospital, New Haven, CT

2013 – present Vice Chair of Research, Department of Urology, Yale School of Medicine, New Haven, CT

Board Certification

Diplomate, American Board of Urology 1998 - 2008

Diplomate, American Board of Urology, Re-Certification 2008 – 2018

Diplomate, Sub-Specialty Certification in FPMRS 2015 - 2025

Professional Honors & Recognition

International/National/Regional:

2018: Best Basic Science Podium Presentation, Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction (SUFU) Annual Meeting (*senior author*).

- 2018: Best Basic Science Abstract, American Urogynecologic Society (AUGS) Annual Meeting (*Mentee Judy Yeh, MD*)
- 2018-2019: Connecticut's Top Doctors
- 2017: Basic Science Essay Winner, Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction (SUFU) Annual Meeting (*senior author*).
- 2015: Wendy U. and Thomas C. Naratil Pioneer Award from Women's Health Research at Yale
- 2015: Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction 2015 Distinguished Service Award "for outstanding contributions to urodynamics, female urology and voiding dysfunction and exemplary service to the Society"
- 2013: AUA Victor A. Politano Award (outstanding work in treatment of urinary incontinence and innovations in bladder research)
- 2011: 2nd Prize Poster, SUFU Annual Meeting
- 2011 – 2019: Best Doctors
- 2009: *Journal of Urology* Best Reviewer Award
- 2009: Second Prize Winner (*Mentee Mingkai Li, MD, PhD*) AUA-ACMI Basic Science Prize Essay Contest, American Urological Association Annual Meeting, Chicago, IL
- 2009: Honorable Mention (*Mentee: Mingkai Li MD, PhD*) Annual Jack Lapidès Essay Contest in Neurourology, Chicago, IL
- 2009: Honorable Mention, Basic Science Poster, NIDDK New Research Directions in UI Symposium, Bethesda, MD
- 2008: First Prize Winner (*Mentee: Brian Tully, MD*), Resident's Essay Contest MidAtlantic AUA Annual Meeting, Cambridge, MD
- 2007: Best Basic Science Poster, Society for Urodynamics and Female Urology Annual Meeting, San Diego, CA
- 2007: Third Prize Winner (*Mentee: Gopal Gupta, MD*), AUA-ACMI, Basic Science Prize Essay Contest, American Urological Association Annual Meeting, Anaheim, CA
- 2007: Honorable Mention (*Mentee: Gopal Gupta, MD*), Annual Jack Lapidès Essay Contest in Neurourology, Anaheim, CA
- 2006 – 2007: AUA Leadership Class of 2006-2007
- 2006: First Prize Winner (*Mentee: Gopal Gupta, MD*), Society for Urodynamics and Female Urology (SUFU) Annual Meeting, Basic Science Essay Contest, San Diego, CA
- 2006: First Prize Winner (*Mentee: Gopal Gupta, MD*), Resident's Essay Contest, MidAtlantic AUA Annual Meeting, Washington DC
- 2005: *Journal of Urology* Best Reviewer Award
- 2005: Paul Zimskind Award, For Continuing Excellence and Leadership In Field of Voiding Dysfunction, Society for Urodynamics and Female Urology
- 2004: Honorary Member of Academic Council, Dnipropetrovsk State Medical Academy, Dnipropetrovsk, Ukraine
- 2004: Second Prize (*Mentee: Benjamin Lowentritt, MD*), AUA-ACMI, Basic Science Prize Essay Contest, American Urological Association Annual Meeting, San Francisco, CA
- 2003: Second Prize (*Mentee: Humphrey Atiemo, MD*), Resident's Essay Contest Mid-Atlantic AUA Annual Meeting
- 2003: American Foundation for Urologic Disease (AFUD), Research Scholar Award, (*Mentee: Yan Sun, PhD*)
- 2001: First Prize (*Mentee: Jennifer MaLossi, MD*), Residents' Essay Contest, Basic Science, Mid-Atlantic AUA Annual Meeting, Hot Springs, VA
- 2001: Young Investigator Award, Society for Basic Urologic Research

- 2001: Second Alternate, American Urological Association – European Urological Association Scholar Exchange Program
- 2001: First Prize Winner, Basic Science Category, Society for Urodynamics and Female Urology (SUFU) Annual Meeting, Anaheim, CA
- 2001: Winner, Pfizer International Cardura Competitive Awards Program
- 2001: Honorable Mention, Annual Jack Lapidus Essay Contest in Neurourology Anaheim, CA
- 1999: Second Prize Poster, International Bladder Symposium, Washington, DC
- 1999: Third Prize Poster, Society of Uroradiology Annual Meeting, New Orleans, LA
- 1997: Second Prize, AUA CIRCON-ACMI, Basic Science Prize Essay Contest, American Urological Association Annual Meeting, New Orleans, LA
- 1996: NIH Mentored Clinical-Scientist Career, Development Award (K08 Series Award)
- 1995: American Foundation for Urologic Diseases (AFUD), Research Scholar Award, (Mentors: William D. Steers, MD and Jeremy B. Tuttle, PhD)
- 1991: First Prize, Michigan Urological Society's Residents' Day
- 1986: First Runner Up, Medical Student Research Day, University of Maryland, Baltimore
- 1981: Representative of USA, International Symposium on Sciences and Humanities London, England
- 1981: Honors Group, Westinghouse Science Talent Search

University:

2007 – 2012: John D. Young, Jr. Endowed Professorship, University of Maryland School of Medicine

Grant/Clinical Trials History:

Current Grants

Agency: NIH/NIDDK

ID#: U01-DK106908

Title: Prevention of Lower Urinary Tract Symptoms in Women: Yale Bladder Health Clinical Center

PI: Leslie Rickey

Percent Effort: Co-investigator, 10%

Direct Costs per year: \$499,998

Total costs for project period: \$4,162,493

Project Period: 7/1/2015 – 6/30/2020

Past Grants

Agency: Women's Health Research at Yale

ID#: Wendy U. and Thomas C. Naratil Pioneer Award

Title: Estrogen receptor β Overexpression in Bladder Urothelium

PI: Toby Chai

Direct costs per year: \$47,000

Project Period: 7/1/2015 – 6/30/2017

Agency: New England Research Institute (NERI)

I.D.#: none

Title: Urinary Incontinence Treatment Network – Phase 2

P.I.: Toby C. Chai, MD

Percent Effort: Consultant 10%

Direct costs per year: \$36,331

Total costs for project period: \$89,575

Project period: 07/01/11 – 06/30/2014

Agency: New England Research Institute (NERI)

I.D.#: none

Title: Plasma NTx and vitamin D levels as prognostic factors for surgical outcomes after midurethral slings

PI: Toby C. Chai, MD

Percent Effort: PI, 10%

Direct costs per year: \$81,108

Total costs for project period: \$106,212

Project Period: 1/31/14 – 6/30/14

Agency: NIH-NIDDK

I.D.#: R44-DK093279

Title: Gene transfer to treat urinary urgency, frequency, nocturia & incontinence

P.I.: Moses Tar, PhD

Percent Effort: Consultant 1%

Direct costs per year: \$253,356

Total costs for project period: \$507,071

Project period: 09/01/2011 – 08/31/2013

Agency: NIH/NIDDK

I.D.#: R01-DK75728

Title: Human Bladder Urothelial Cell Structure and Function in Bladder Hypersensation

P.I.: Toby C. Chai, MD

Percent Effort: 20%

Direct costs per year: \$227,940

Total costs for project period: \$1,681,320

Project period: 09/01/2006 - 06/30/2012

Agency: NIH/NIDDK

I.D.#: R01-DK75728 Administrative Supplement

Title: Human Bladder Urothelial Cell Structure and Function in Bladder Hypersensation

P.I.: Toby C. Chai, MD

Percent Effort: 0%

Direct costs per year: \$9,424

Total costs for project period: \$14,136

Project Period: 07/15/2009 – 08/31/2010

Administrative Supplement NOT-OD-09-060 “Recover Act Funds for Administrative Supplements Providing Summer Research Experiences for Students and Science Educators”

Agency: NIH/NIDDK

I.D.#: R01-DK75728 Administrative Supplement

Title: Human Bladder Urothelial Cell Structure and Function in Bladder Hypersensation

P.I.: Toby C. Chai, MD

Percent Effort: 0%

Direct costs per year: \$79,100

Total costs for project period: \$79,100

Project Period: 08/01/2009 – 05/31/2010

Administrative Supplement ARRA for Equipment

Agency: NIH/NIDDK
I.D.#: U01-DK060397
Title: Baltimore Continence Treatment Center and Urinary Incontinence Treatment Network
P.I.: Toby C. Chai, MD
Percent Effort: 15%
Direct costs per year: \$271,895
Total costs for project period: \$2,679,562
Project period: 09/01/2001 - 06/30/2011

Agency: NIH/NIDDK
I.D.#: U01-DK060397-S02
Title: Urinary Incontinence Treatment Network (Urinary Markers After Continence Surgery)
P.I.: Toby C. Chai, MD
Percent Effort: 5%
Direct costs per year: \$81,991
Total costs for project period: \$190,000
Project period: 09/30/2010 - 08/31/2012

Agency: NIH/NIDDK
I.D.#: P20-DK090985
Title: University of Maryland Baltimore Interdisciplinary Research Center in Benign Urology
P.I.: Toby C. Chai, MD
Percent Effort: 10%
Direct costs per year: \$400,000
Total costs for project period: \$515,810
Project period: 10/1/10 - 9/30/2012

Agency: NIH/NIDDK
I.D.#: U01-DK65271
Title: Interstitial Cystitis Clinical Research Network
P.I.: Toby C. Chai, MD
Percent Effort: 25%
Direct costs per year: \$256,112
Total costs for project period: \$1,592,450
Project period: 09/01/2003 – 02/28/2008

Agency: NIH/NIDDK
I.D.#: U01-DK65271S1
Title: Interstitial Cystitis Clinical Research Network – Ancillary Study 1
P.I.: Toby C. Chai, MD
Percent Effort: 2%
Direct costs per year: \$292,956
Total costs for project period: \$369,126
Project period: 09/30/2004 – 02/28/2008

Agency: NIH/NIDDK
I.D.#: U01-DK65271S2
Title: Interstitial Cystitis Clinical Research Network – Ancillary Study 2

P.I.: Toby C. Chai, MD

Percent Effort: 1%

Direct costs per year: \$89,929

Total costs for project period: \$113,311

Project period: 03/01/2005 – 02/28/2008

Agency: NIH/NIDDK

I.D.#: R01-DK059441-05

Title: Effects of stretch on IC and Normal Urothelia

P.I.: Toby C. Chai, MD

Percent Effort: 25%

Direct costs per year: \$925,000

Total costs for project period: \$1,353,013

Project period: 06/15/2001 – 06/31/2007

Agency: NIH/NIA

I.D.#: K08-AG000698

Title: Neuroplasticity of The Aging Bladder

P.I.: Toby C. Chai, MD

Percent Effort: 75%

Direct costs per year: \$469,800

Total costs for project period: \$503,860

Project period: 02/01/1996 – 01/31/2001

Past Clinical Trials

Agency: Allergan

I.D.#: LiRIS 201025-001_002

Title: A Multicenter, Randomized, Double-blind, Placebo-controlled Study, Evaluating Safety and Efficacy of LiRIS® 400 mg in Females With Interstitial Cystitis/Bladder Pain Syndrome

Role: Toby C. Chai, MD, PI

Percent effort: 2%

Total cost for project period: \$14,500 per subject, \$203,000 maximum

Project Period: 06/01/2016 – 09/01/2016

Agency: Endo Pharmaceuticals Inc. (Chadds Ford, PA 19317)

I.D.#: EN3348-303

Title: A phase 3, randomized, active-controlled, open-label, multicenter study to evaluate the efficacy and safety of EN3348 (MCC) as compared with mitomycin C in the intravesical treatment of subjects with BCG recurrent or refractory non-muscle invasive bladder cancer

Role: Toby C. Chai, MD, PI for Baltimore VAMC site

Percent Effort: 2%

Total costs for project period: \$5000/patient

Project Period: 07/01/2011 – 07/01/2012

Enrollment: 1 subject (this trial was closed globally at all sites for slow accrual overall)

Agency: Allergan Ltd. (Irvine, CA 92612)

I.D.#: 191622-516-01

Title: A multicenter, double-blind, randomized, placebo-controlled, parallel-group

study of the safety and efficacy of a single treatment with two dose levels of BOTOX® (Botulinum Toxin Type A) purified neurotoxin complex followed by a treatment with BOTOX® in patients with urinary incontinence due to neurogenic detrusor overactivity

Role: Toby C. Chai, MD, PI for University of Maryland Baltimore site

Percent Effort: 5%

Total costs for project period: \$7,000/patient

Project Period: 04/23/2009 – 07/21/2010

Enrollment: 7

Agency: Allergan Ltd. (Irvine, CA 92612)

I.D.#: 191622-516-01

Title: A multicenter, long-term follow-up study of the safety and efficacy of two dose levels of BOTOX® (Botulinum Toxin Type A) purified neurotoxin complex in patients with urinary incontinence due to neurogenic detrusor overactivity

Role: Toby C. Chai, MD, PI for University of Maryland Baltimore site

Percent Effort: 5%

Total costs for project period: \$25,000/patient

Project Period: 1/19/2010 – 2/15/2013

Enrollment: 7

Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated With Yale:

International/National

- 2019: American Urological Association Annual Meeting “Second Opinion Cases (Ask the Guidelines!): Recurrent Urinary Tract Infection”, Chicago, IL
- 2019: American Urological Association Annual Meeting “Another UTI? What Do Experts Say?”, Chicago, IL
- 2019: SUFU Annual Winter Meeting “Urothelial Oxidative Stress in UTI Pathogenesis - Is There a Link?”, Miami, FL
- 2018: Chinese Urological Association Female Pelvic Medicine and Reconstructive Surgery specialty meeting, “Strategies for Surgical Management of Urinary incontinence – Stress and Urgency”, Qingdao, China
- 2017: International Meeting on Recent Advance in IC/BPS/Hemorrhagic Cystitis (sponsored by Taiwanese Continence Society) “Urothelial Dysregulation in IC/BPS”, Taichung, Taiwan
- 2017: Taiwanese Continence Society Annual Meeting “Bedside-to Bench-to Bedside Translational Research in OAB, Taichung, Taiwan
- 2017: Korean Urological Association/American Urological Association meeting, plenary session “Overactive Bladder in BPH: Updated Pathophysiology and Impact of Surgery”, Boston, MA
- 2017: American Urological Association Annual Meeting, Plenary Session “Journal of Urology Best Papers in Female Urology and Stones”, Boston, MA
- 2017: SUFU Annual Winter Meeting “Changes in Urothelial Permeability in Health and Disease”, Scottsdale, AZ
- 2016: Korean Urological Association annual meeting, Plenary Session “Can we improve how we currently treat female stress urinary incontinence”. Seoul, Korea
- 2016: Korean Urological Association annual meeting, Plenary Session “Advanced therapeutic directions to treat the underactive bladder” Seoul, Korea

- 2016: Korean Urological Association annual meeting, resident lecture “Female Pelvic Medicine and Reconstructive Surgery” Seoul, Korea
- 2016: American Urological Association Annual Meeting “Journal of Urology Best Papers in Female Urology and Stones”, San Diego, CA
- 2016: Loyola University Chicago Infectious Disease & Immunology Research Institute “Mechanism of Urothelial Host Response to Infection” Chicago, IL
- 2016: Annual Hiram Arnold, MD Lectureship, Houston Methodist Hospital, Department of Obstetrics & Gynecology, Houston, TX “What’s in the Future for Evaluation and Management of Urinary Incontinence and Lower Urinary Tract Symptoms?”
- 2015: World Chinese LUTS Forum, Taiwanese Continence Society, Kaohsiung, “Understanding Pathophysiology of Urinary Incontinence and LUTS – The Key to Personalized Medicine”
- 2015: World Chinese LUTS Form, ““Understanding Pathophysiology of Urinary Incontinence and LUTS – The Key to Personalized Medicine”, Kaohsiung, Taiwan
- 2014: World Congress of Endourology, “Recurrent Stress Urinary Incontinence (rSUI)”, Taipei, Taiwan
- 2014: Society for Women’s Health Research Scientific Roundtables: Understanding urologic health in women across the lifespan. Topic C Leader – Biologic basis of urologic disease, Crystal City, VA
- 2014: Korean Urology Association Session at 2014 AUA “Prolapse and SUI Surgery: Separated or Combined” Orlando, FL
- 2014: AUA Early Investigator Workshop – session moderator, Linthicum, MD
- 2014: SUFU Annual Winter Meeting, “Serum and Urine Biomarkers for LUTS (OAB, IC, etc.): Where Are We?”
- 2013: Wake Forest Institute of Regenerative Medicine “Does the urothelium drive bladder function”
- 2013: AUGS “Stump the Professor~ An Unusual Presentation of Anterior Wall Prolapse” Las Vegas, NV
- 2013: Baylor Medical Center, Urology Update 2013, Dallas, TX: “Guidelines in Diagnosis and Treatment of (Non-neurogenic) Overactive Bladder in Adults” and “Transvaginal Mesh Complications and Management”
- 2012: University of Nevada Reno, Reno, NV, Department of Physiology: “Contribution of Bladder Urothelial Cell (BUC) to Pathophysiologic Bladder Function”
- 2012: University of Toronto, Ontario, Canada, Urology Update 2012: “Midurethral Slings – Determinants of Success” and “Urodynamics in the Workup in 2012 – Is it Necessary?”
- 2012: American Urological Association Annual Meeting, Atlanta, GA: “Concept Creation, Collaboration, and Grant Submission: Opportunities and Challenges – Clinical Trials Research”
- 2011: American Urological Association Annual Meeting, Washington, DC, “Translational Urology Research: Step-by-step How to Do it from Concepts to Getting Funded”
- 2011: University of Alabama Birmingham, Birmingham, AL, Division of Urology: “Use of Intestinal Segments in Urologic Reconstructive Surgery”
- 2011: University of Pennsylvania, Philadelphia, PA, Department of Urology: “The 3 U’s: Urothelium, Urinary Incontinence and the Urologist”
- 2011: Brown University, Division of Urology Providence, RI: “The Bladder Urothelium – More than Barrier Function: Its Role in Lower Urinary Tract Symptoms” and “What has the Urinary Incontinence Treatment Network Taught Us?”
- 2010: American Urological Association (AUA) Summer Research Conference, Linthicum, MD: “Urothelial Biology and Overactive Bladder”

- 2010: Japanese Urological Association Joint Meeting with American Urological Association (AUA) at AUA Annual Meeting, San Francisco, CA: “Management of Male LUTS: How Optimized and Different Between Countries”
- 2009: NIDDK New Research Directions in Urinary Incontinence Symposium, Bethesda, MD: “Basic Research Update in Overactive Bladder and Urge Urinary Incontinence”
- 2008: American Urological Association Annual Meeting, Orlando, FL., “Advances and controversies in Management of Overactive Bladder”
- 2008: Asian Network of Excellence in Urological Science (NEXUS), Sapporo, Japan: “Building Overactive Bladder Awareness”
- 2008: American Urological Association (AUA) Annual Meeting, Orlando, FL: “Take Home Message – Urinary Incontinence”
- 2007: Food and Drug Administration, Clinical Reviewers’ Education Program – Women’s Health Update – Part 2, Silver Spring, MD “Interstitial Cystitis”
- 2007: Society for Urodynamics and Female Urology (SUFU) Annual Meeting, San Diego, CA: “Update from the Urinary Incontinence Treatment Network (UITN): Work from Publications & Presentations (P&P) Committee”
- 2007: Christian Medical and Dental Association, Continuing Medical and Dental Education (CMDE) Conference, Chiangmai, Thailand: “Medical Management of BPH” and “Treatment of Urinary Incontinence” and “Treatment of Urethral Strictures” and “Surgical Management of Urolithiasis” and “Surgical Management of Erectile Dysfunction”
- 2006: University of Texas Southwestern 12th Annual Paul Peters Urology Symposium, Dallas, TX: “Relevant Surgical Pelvic Anatomy” and “IC Therapy and Role of Neuromodulation”
- 2005: NIDDK Chronic Pelvic Pain/Chronic Prostatitis Scientific Workshop: “Update on mediators of bladder afferent activity”
- 2005: Taiwan Urological Association Satellite Symposium, Kaoshiung, Taiwan: “Bladder outlet obstruction (BOO) and Overactive Bladder (OAB) - Empiricism versus Science”
- 2005: Taiwan Urological Association 27th Annual Congress, Kaoshiung, Taiwan: “Role of Bladder Urothelium in Bladder Sensation - From Bench to Bedside”
- 2005: Tri-Service General Hospital, Dept. of Urology Grand Rounds, Taipei, Taiwan: “Treatment of Lower Urinary Tract Symptoms – Are We Treating BPH or Something Else?”
- 2005: Taichung Veterans General Hospital, Dept. of Urology Grand Rounds, Taichung, Taiwan: “Evidence-based Medicine in Male LUTS: Review of NIH-Sponsored Clinical Trials”
- 2005: Taipei Veterans General Hospital, Dept. of Urology Grand Rounds, Taipei, Taiwan: “Treatment of Lower Urinary Tract Symptoms – Are We Treating BPH or Something Else?”
- 2005: American Urological Association (AUA) Plenary Session, San Antonio, TX: “Management of Incontinence After Sling Procedure: Surgery vs. Drugs – Point Counterpoint”
- 2005: International Bladder Symposium, Baltimore MD: “Role of Bladder Urothelium in Bladder Hypersensory Disease”
- 2005: American Pain Society Annual Meeting, Symposium on Interstitial Cystitis, Boston, MA: “Interstitial Cystitis – Translational Research”
- 2005: XXXV International Congress on Physiological Sciences, Satellite Symposium, San Diego, CA: “Role of bladder urothelial cell in sensory signal transduction using interstitial cystitis as a human model”

- 2004: American Urological Association Annual Meeting, San Francisco, CA, “Modern Treatment of Urinary Incontinence”
- 2004: International Continence Society and International Urogynecological Association 1st Annual Combined Meeting, Understanding Urothelial Dysfunction: Pathophysiology and Novel Therapies Workshop, Paris, France: “Antiproliferative Involvement in Interstitial Cystitis”
- 2004: American Urological Association Summer Research Conference, McLean, VA: “ATP Sensitization”
- 2004: Society for Urodynamics and Female Urology 1st Annual Winter Meeting, Phoenix, AZ: “Report on NIH Studies – Chronic Pelvic Pain Syndromes”
- 2004: Dnipropetrovsk Medical Academy, Dept. of Urology and Ob/Gyn Grand Rounds, Dnipropetrovsk, Ukraine: “Prostate Cancer” and “Urinary Incontinence”
- 2003: American Urological Association Annual Meeting, Chicago, IL, “Modern Treatment of Urinary Incontinence”
- 2003: NIDDK and Interstitial Cystitis Association, Research Insights into Interstitial Cystitis: A Basic and Clinical Science Symposium, Old Town Alexandria, VA: “The Role of Bladder Urothelium in Sensory Transduction: Can IC Bladder Urothelial Cells be Hypersensitive?”
- 2002: American Urological Association Annual Meeting, Orlando, FL, “Modern Treatment of Urinary Incontinence”
- 2002: NIH, Bethesda, MD: “Basic Science and Translational Research in Female Pelvic Floor Disorders”
- 2002: International Foundation for Functional Gastrointestinal Disorders, Consensus Conference, Milwaukee, WI: “Advancing the Treatment of Fecal and Urinary Incontinence Through Research: Trial Design, Outcome Measures, and Research Priorities”
- 2001: 4th World Congress in Urologic Research, Tucson, AZ: “Neural Control of Bladder Function”
- 2001: Society for Basic Urologic Research, Breakout Session, Anaheim, CA: “Sacral Neuromodulation in Treatment of Voiding Dysfunction”
- 2001: Taiwanese Incontinence Society, Taipei, Taiwan: “InterStim Therapy: S3 Neuromodulation for Treatment of Voiding Dysfunction”
- 2001: Cleveland Clinic Foundation Urological Institute, Section of Voiding Dysfunction and Female Urology Grand Rounds, Cleveland, OH: “InterStim Therapy: S3 Neuromodulation for Treatment of Voiding Dysfunction”

Regional

- 2019: University of Buffalo Department of Obstetrics and Gynecology and Buffalo OBGYN Society Visiting Professor, April 9-10, 2019. “Urinary Tract Injuries in Female Pelvic Surgery” and “A Historical Perspective for Stress Urinary Incontinence Surgery”
- 2019: Montefiore Medical Center/Albert Einstein College of Medicine, Department of Urology, Visiting Professor April 4, 2019 “How Urothelium Modulates Bladder Function – The Middle of a Bedside-to-Bench-to-Beside Story”
- 2018: 33rd Reed Nesbit Visiting Professor, Department of Urology, University of Michigan School of Medicine “Intermittent Self Catheterization – Musings from a Michigan Urology Residency Graduate” and “How Urothelium Modulates Bladder Function – The Middle of a Bedside-to-Bench-to-Beside Story”, September 21-22, 2019

- 2018: George Washington University Department of Urology Grand Rounds, Jan 31, 2018
“How Urothelium Modulates Bladder Function – The Middle of a Bedside-to-Bench-to-Beside Story”
- 2017: Washington University in St. Louis School of Medicine, Center for Reproductive Health Sciences Research Seminar: “Transgenic Murine Models to Probe Bladder Urothelial Innate Immune Responses in UTI” Dec. 1, 2017.
- 2017: LifeBridge Health at Sinai Hospital OB/GYN Grand Rounds "New insights into UTI Pathogenesis in Women - Role of Estrogen, Receptor Beta", as well as, "Urinary Tract Injuries during OB/GYN Surgery", Baltimore, MD
- 2017: Cornell Weill Medical College, Department of Urology Grand Rounds July 23, 2017:
“How Urothelium Modulates Bladder Function – The Middle of a Bedside-to-Bench-to-Beside Story”
- 2017: Men’s Health Symposium, Yale. “Voiding Dysfunction in the Male Under 45 – Is it BPH or Something Else?” March 25, 2017, Water’s Edge, Westbrook, CT
- 2017: University of Texas Southwestern Medical Center, Urology Grand Rounds Feb 22, 2017
“How Urothelium Modulates Bladder Function – The Middle of a Bedside-to-Bench-to-Beside Story”
- 2015: University of Maryland Medical Center Urology Grand “Open Urethroplasty in Management of Urethral Strictures”, Baltimore, MD
- 2015: China Medical University Hospital “Open Urethroplasty in Management of Urethral Strictures”, Taichung, Taiwan
- 2015: Taichung Veterans Hospital “Evaluation and Management of Vesicovaginal Fistulae”, Taichung, Taiwan
- 2015: Kaohsiung Chang Gung Hospital “Evidence Based Medicine for Treatment of Female Stress Urinary Incontinence”, Kaohsiung, Taiwan
- 2015: Primary Care Grand Rounds, Community Health Center, Inc, “Bladder Health and the Primary Care Physician”, Middletown, CT
- 2015: Primary Care Grand Rounds, Community Health Center, Inc, “Low Testosterone in Males – Overadvertisement by Industry?” Middletown, CT
- 2014: New England Section of AUA Annual Meeting, “Treatment of Refractory OAB: Sacral Neuromodulation” as part of Panel on Treatment of Refractory OAB, Newport, RI
- 2014: Peninsula Regional Medical Center (PRMC) Urology Grand Rounds, Salisbury, MD
“What Components are Needed to Develop a Bladder Cancer Program in a Cancer Center?” May 13, 2013
- 2014: Beth Israel Grand Rounds BIDMC “Can the Urothelium Modulate Bladder Function” Boston, MA May 13, 2014
- 2014: Community Outreach – Yale Library “Does the Bladder Matter? A Male (Patient’s) Perspective. New Haven, CT March 2014
- 2013: Mt. Sinai “Evidence Based Medicine for Treatment of (Mostly Female) Stress Urinary Incontinence” NY November 6, 2013
- 2013: Connecticut Urology Society Annual Scientific Meeting, Plantsville, CT, Sept. 19, 2013
- 2013: UMMC Urology Grand Rounds, Baltimore, MD “One Person’s Perspectives on the Specialty of Urology 1993-2013”
- 2010: Eastern Shore Oncology Conference, Richard A. Henson Cancer Institute, Peninsula Regional Medical Center, Salisbury, MD: “Bladder Cancer, The Good, The Bad and The Ugly”
- 2010: MidAtlantic AUA Annual Meeting, Nemaquin, PA: “Stress Urinary Incontinence AUA Practice Guidelines”

- 2009: MidAtlantic AUA Annual Meeting, Williamsburg, VA: “Point Counterpoint – Female Pelvic Reconstruction Urology vs. Female Pelvic Medicine”
- 2001: Cleveland Clinic Foundation Urological Institute, Section of Voiding Dysfunction and Female Urology Grand Rounds, Cleveland, OH: “InterStim Therapy: S3 Neuromodulation for Treatment of Voiding Dysfunction”
- 2005: MidAtlantic AUA Annual Meeting, Phoenix, AZ: “The Overactive Bladder: More Options or Differences without Distinction”
- 2008: Peninsula Regional Medical Center, OB/GYN Grand Rounds, Salisbury, MD: “Bladder Injuries during Hysterectomy: A Need for a Partnership Between the Urologist and the Gynecologist”
- 2007: Maryland Urological Association Annual Meeting, “Urology Update 2007”
- 2007: Wound, Ostomy and Continence Nurses Society Annual Meeting, Baltimore, MD: “Interstitial Cystitis – Disease of Syndrome?”
- 2007: University of Maryland School of Medicine, Family Medicine & Community Health, Grand Rounds, Baltimore, MD: “Urinary Incontinence”
- 2007: University of Maryland Family Medicine & Community Health Departmental Annual Meeting, Ocean City, MD: “Urinary Incontinence”
- 2007: Maryland Academy of Family Physicians Spring Meeting, Annapolis, MD: “Urinary Incontinence”
- 2006: MidAtlantic AUA Annual Meeting, Washington DC: “Voiding Dysfunction and the Bladder Urothelium”
- 2006: 12th Annual Chesapeake Regional Osteopathic Scientific Conference, Annapolis, MD: “Urinary Incontinence 2006”
- 2004: Washington Urological Society Fall Meeting, Washington, DC: “Hypersensitive Bladder Conditions: Overactive Bladder and Interstitial Cystitis”
- 2004: Union Memorial Hospital, Medicine Grand Rounds, Baltimore, MD: “Overactive Bladder: Evolving Concepts”
- 2004: Chesapeake Hospital, Medicine Grand Rounds, Bel Air, MD: “Overactive Bladder: Evolving Concepts”
- 2004: Franklin Square Hospital, Medicine Grand Rounds, Baltimore, MD: “Overactive Bladder: Evolving Concepts”
- 2004: St. Joseph Medical Center, Obstetrics and Gynecology Grand Rounds, Timonium, MD: “Overactive Bladder: Form and Function”
- 2004: Frederick Memorial Hospital, Obstetrics and Gynecology Grand Rounds, Frederick, MD: “Overactive Bladder: Form and Function”
- 2004: Good Samaritan Hospital, Medical Grand Rounds, Baltimore, MD: “Overactive Bladder: Evolving Concepts”
- 2004: Northwest Hospital Center, Department of Internal Medicine Grand Rounds, Randallstown, MD: “Overactive Bladder: Evolving Concepts”
- 2004: 9th Annual Chesapeake Regional Osteopathic Scientific Conference, Primary Care Update, Ocean City, MD: “Overactive Bladder: Evolving Concepts”
- 2004: Harbor Hospital, Department of Medicine Grand Rounds, Baltimore, MD: “Overactive Bladder: Evolving Concepts”
- 2004: Johns Hopkins Hospital, Department of Obstetrics and Gynecology Grand Rounds, Baltimore, MD: “Overactive Bladder: Evolving Concepts”
- 2004: University of Maryland Medical Center, Department of Obstetrics and Gynecology Grand Rounds, Baltimore, MD: “Overactive Bladder: Form and Function”
- 2003: 20th Annual Houston Everett Course in Urogynecology, “Management of Interstitial Cystitis”, Baltimore, MD

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- 2003: MidAtlantic AUA Annual Meeting, Boca Raton, FL: “Intravesical Agents and Gene Therapy in Treatment of Overactive Bladder”
- 2003: American Kidney Stone Management, Inc. Annual Meeting, Orlando, FL: “Surgery for Non-neoplastic Conditions of the Lower Urinary Tract”
- 2003: 8th Annual Chesapeake Regional Osteopathic Scientific Conference, Primary Care Update, Ocean City, MD: “Interstitial Cystitis”
- 2002: MidAtlantic AUA Annual Meeting, Baltimore, MD: “Modern Perspectives and Historical Footnotes on Surgery for Stress Incontinence”
- 2002: Regional InterStim Training Course Lecture, Columbia, MD
- 2002: Prostate Cancer 2002: New Perspectives, Baltimore, MD: “Urinary Incontinence”
- 2002: Montgomery General Hospital, Grand Rounds, Olney, MD: “Overactive Bladder and Interstitial Cystitis”
- 2002: University of Maryland School of Medicine, Family Medicine & Community Health, Grand Rounds, Baltimore, MD: “Stress Urinary Incontinence – The Need for Data”
- 2002: 7th Annual Chesapeake Regional Osteopathic Scientific Conference, Primary Care Update: Medicine in 2002, Ocean City, MD: “Urinary Incontinence”
- 2001: Fall Regional Conference of the Maryland Academy of Family Physicians, Solomons Island, MD: “Management of UTIs and Interstitial Cystitis”
- 2001: University of Maryland School of Medicine, Family Medicine & Community Health, Grand Rounds, Baltimore, MD: “Urinary Incontinence – The Need for Data”
- 2001: St. Agnes Hospital, Department of Obstetrics and Gynecology Grand Rounds, Baltimore, MD: “Pathophysiology of Stress Urinary Incontinence”
- 2001: Regional InterStim Training Course Lecture, Columbia, MD
- 2001: Suburban Hospital Grand Rounds, Bethesda, MD: “Urinary Incontinence”
- 2001: Society for Urologic Nursing Association Maryland Regional Meeting, Timonium, MD: “InterStim Therapy: S3 Neuromodulation for Treatment of Voiding Dysfunction or The Bladder Matters”
- 2001: Maryland Urologic Society Spring Meeting, Baltimore, MD: “Stretch and the Bladder Urothelia: Why You Feel the Urge”
- 2001: Regional InterStim Training Course Lecture, Newton, MA
- 2001: Regional InterStim Training Course Lecture, Morristown, NJ
- 2001: Regional InterStim Training Course Lecture, Richmond, VA
- 2001: National InterStim Training Course Lecture, Memphis, TN
- 2001: Pelvic Floor Dysfunction Course Innovations in Medical Education and Training Lecutre, Baltimore, MD
- 2000: Fall Regional Conference of the Maryland Academy of Family Physicians, Rocky Gap, MD: “Overactive Bladder and Urinary Incontinence”
- 2000: Greater Baltimore Medical Center, Department of Obstetrics and Gynecology Grand Rounds, Baltimore, MD: “Interstitial Cystitis: A Boon to Understanding Basic Bladder Physiology?”
- 2000: Peninsula Regional Medical Center, Surgical Scientific Educational Session, Salisbury, MD: “Workup and Treatment of Urinary Incontinence”
- 2000: Maryland Urologic Society Spring Meeting, Baltimore, MD: “Surgical Management of Interstitial Cystitis?”
- 2000: University of Maryland School of Medicine, Department of Neurology Grand Rounds, Baltimore, MD: “Neurophysiology of Micturition and Continence”
- 1999: Franklin Square Hospital Grand Rounds, Baltimore, MD: “Urinary Incontinence and Overactive Bladder”

- 1999: Maryland Urologic Society Spring Meeting, Baltimore, MD: “Neuroplasticity Diagnosed by Urodynamics”
- 1999: University of Maryland School of Medicine, Department of Family Medicine Grand Rounds, Baltimore, MD: “Overactive Bladder and Urinary Incontinence”

Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated With Yale

International/National

- 2019: American Urological Association Annual Meeting “Prostatic artery embolization to treat gross hematuria attributable to benign prostatic hyperplasia: a single center analysis of 3-year outcomes”, May 4, 2019, Chicago, Il (*podium presentation*).
- 2019: American Urological Association Annual Meeting “Prostatic artery embolization to treat lower urinary tract symptoms attributable to benign prostatic hyperplasia: a single center analysis of 2-year outcomes”, May 4, 2019, Chicago, Il (*podium presentation*)
- 2019: American Urological Association Annual Meeting “A method for harvesting mouse urothelial tissue, leaving intact urothelial cells, allowing for different experiments to investigate urothelial biology”, May 4, 2019, Chicago, Il (*moderated poster presentation*)
- 2018: Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction Annual Meeting, Feb 28, 2018, Top Ten Basic Science Abstract Podium: “Overexpression of Estrogen Receptor β in Urothelium Protects Against Uropathogenic E. coli Urinary Tract Infection”. Feb 28, 2018 (*Plenary Podium Presentation*)
- 2018: Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction Annual Meeting, Feb 28, 2018, Top Ten Basic Science Abstract Podium: “Transgenic Female Mice with Ornithine Decarboxylase (ODC) Overexpression Restricted to Urothelium Exhibit OAB Voiding Behavior and Increased Urinary Cytokines: A Translational Murine Model”. Feb 28, 2018 (*Plenary Podium Presentation*)
- 2017: American Urogynecologic Society annual meeting, Providence RI “Big potassium (BK) channel regulates in vivo urothelial cytokine release induced by lipopolysaccharide – new insight into urothelial innate immune response in pathogenesis of urinary tract infection” (*Oral Poster*)
- 2017: American Urogynecologic Society annual meeting, Providence RI “Overexpression of ornithine decarboxylase (ODC) in bladder urothelium recapitulates overactive bladder (OAB) phenotype” (*Oral Poster*)
- 2017: American Urogynecologic Society meeting, Providence, Rhode Island “Overactive Voiding Behavior in Surgically-induced Menopausal Mice Exposed to LPS is Modulated by Distinct Gene Pathways” (*Plenary Podium Presentation*)
- 2017: American Urogynecologic Society annual meeting, Providence RI “Overexpression of estrogen receptor beta in bladder urothelium protects against uropathogenic E. coli infection” (*Plenary Podium presentation*)
- 2017: International Continence Society, Florence Italy “Results of a Phase 1B Multicenter Study Evaluating the Safety and Potential Activity of Two Escalating Doses of hMaxi-K Gene Transfer by Direct Injection into the Bladder Wall in Female Participants with Idiopathic (Non-neurogenic) Overactive Bladder Syndrome and Detrusor Overactivity: Double Blind, Imbalanced Placebo Controlled Design Within 2 Sequential Active Treatment Groups” (*Short Podium presentation*)
- 2017: International Continence Society, Florence Italy “Bladder Urothelial Big Potassium (BK) Channel Regulates in vivo Urothelial Cytokine Release Induced by Lipopolysaccharide

- (LPS) – New Insight into Urothelial Innate Immune Response in Pathogenesis of Urinary Tract Infection” (*Short Podium session*)
- 2017: International Continence Society, Florence Italy “Transgenic Female Mice with Ornithine Decarboxylase (ODC) Overexpression Restricted to Urothelium have OAB Voiding Phenotype and Increased Urinary Cytokines: A Translationally Relevant Murine Model of OAB” (*Short Podium session*)
- 2017: International Continence Society, Florence Italy “Overexpression of Estrogen Receptor Beta in Bladder Urothelium Protects against Uropathogenic E. coli Urinary Tract Infection” (*Short Podium session*)
- 2017: American Urological Association Meeting, Boston, MA “Big potassium channel (BK) activity in female mouse bladder umbrella cells is enhanced by bacterial lipopolysaccharide: an acute host response in urinary tract infection (UTI) pathogenesis” (*Podium presentation*)
- 2016: International Continence Society “Big potassium channel (BK) activity in female mouse bladder umbrella cells is enhanced by bacterial lipopolysaccharide: an acute host response in UTI pathogenesis”. (*short podium presentation*) Tokyo, Japan
- 2015: Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction Annual Meeting, Scottsdale, AZ, “A Method to Study Bladder Urothelial Cellular Function with Preservation of Cellular Location within the Urothelium”
- 2014: American Urological Association Annual Meeting, Orlando, FL “Comparison of ROC Curves for Preoperative VLPP, MUCP, and Urinary NTx as Predictors for Midurethral Sling Outcomes”
- 2014: Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction Annual Meeting, Miami, FL “Comparison of ROC Curves for Preoperative VLPP, MUCP, and Urinary NTx as Predictors for Midurethral Sling Outcomes”
- 2013: American Urological Association Annual Meeting, San Diego, CA “Urinary Markers After Continence Surgery (UMACS) Study – Potential Utility of Biomarkers in Surgery for Stress Urinary Incontinence”
- 2013: Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction Annual Meeting, Las Vegas, NV “Urinary Markers After Continence Surgery (UMACS) Study – Potential Utility of Biomarkers in Surgery for Stress Urinary Incontinence”
- 2013: Society for Gynecologic Surgery 39th Annual Meeting, Charleston, SC “Urinary Markers After Continence Surgery (UMACS) Study – Potential Utility of Biomarkers in Surgery for Stress Urinary Incontinence”
- 2012: American Urological Association Annual Meeting, Atlanta, GA “A Randomized Trial on the Effect of Urodynamic Testing Versus Office Evaluation Only Before Stress Urinary Incontinence on Outcomes”.
- 2012: American Urological Association Annual Meeting, Atlanta, GA “Rat and human bladder urothelial cells have decreased ATP-evoked increase in intracellular calcium with knockdown of P2Y2 receptor”
- 2012: American Urological Association Annual Meeting, Atlanta, GA “Characterization of resting membrane potential in rat and human bladder urothelial cells.”
- 2011: American Urological Association Annual Meeting, Washington, DC “Trial of retropubic and transobturator midurethral slings (TOMUS): 24 month outcomes.”
- 2011: American Urological Association Annual Meeting, Washington, DC “Baseline and time-varying factors associated with long-term continence outcomes after surgery for stress urinary incontinence.”
- 2011: American Urological Association Annual Meeting, Washington, DC “Urodynamic changes 12 months after retropubic and transobturator midurethral slings.”

- 2011: American Urological Association Annual Meeting, Washington, DC “Vimentin is uniquely expressed by rat bladder urothelium (BU) and rat cultured urothelial cells (BUC) but not by human BU and human BUC.”
- 2011: American Urological Association Annual Meeting, Washington, DC “Effects of Concomitant Surgeries during Mid-Urethral Slings (MUS) on Post-operative Complications, Voiding Dysfunction, Continence Outcomes and Urodynamic Variables.”
- 2011: 37th Annual Meeting, San Antonio, TX “Adverse Events in TOMUS Trial. Society for Gynecologic Surgery”
- 2010: American Urogynecologic Society Meeting, Long Beach, CA “Risk Factors for UTI After SUI Surgery.”
- 2010: American Urogynecologic Society Meeting, Long Beach, CA “Minimum important difference for validated instruments in women with urgency incontinence.”
- 2010: International Continence Society Meeting, Toronto, Canada “Minimum important difference for validated instruments in women with urgency incontinence.”
- 2010: American Urological Association Annual Meeting, San Francisco, CA “Factors associated with quality of life in women undergoing surgery for stress urinary incontinence.”
- 2010: American Urological Association Annual Meeting, San Francisco, CA “Preoperative symptom of hesitating urinary stream with associated with surgical failure and postoperative voiding dysfunction following Burch colposuspension or pubovaginal rectus fascial sling surgery.”
- 2010: American Urological Association Annual Meeting, San Francisco, CA “Clinical and demographic variables associated with static urethral pressure profilemetry in patients undergoing mid urethral sling surgery.”
- 2010: American Urological Association Annual Meeting, San Francisco, CA “The role of m3 muscarinic signaling bladder urothelial cancer cell proliferation and apoptosis.”
- 2010: American Urological Association Annual Meeting, San Francisco, CA “Elevated polyamine levels in bladder urothelial cells from subjects with overactive bladder (OAB) mediate oxotremorine (OXO) evoked intracellular calcium increase and acetylcholine release.”
- 2010: American Urological Association Annual Meeting, San Francisco, CA “Stretch-induced expression of HIF-1 α , HIF-2 α and VEGF in bladder urothelial cells (BUC) from subjects with overactive bladder (OAB).”
- 2010: Society for Urodynamics and Female Urology (SUFU) Annual Meeting, St. Petersburg, FL “Preoperative symptom of hesitating urinary stream with associated with surgical failure and postoperative voiding dysfunction following Burch colposuspension or pubovaginal rectus fascial sling surgery.”
- 2010: American Urogynecological Association Annual Meeting, Hollywood, Florida “Tennstedt S, Richter HE. Urodynamics, the supine empty bladder stress test, and incontinence severity”
- 2009: Society for Neuroscience Annual Meeting, Chicago, IL “Bladder urothelial cells from patients with overactive bladder exhibit alterations in mechano- and chemosensitivity”
- 2009: International Continence Society (ICS) Annual Meeting, San Francisco, CA “Preoperative urinary hesitancy is associated with surgical failure and postoperative voiding dysfunction following Burch colposuspension or pubovaginal rectus fascial sling surgery.”
- 2009: International Continence Society (ICS) Annual Meeting, San Francisco, CA “Characteristics of obese, overweight and normal (healthy) weight women seeking surgical treatment for stress urinary incontinence”

- 2008: AUA Annual Meeting, Orlando, Florida “Increased responsiveness of non-neurogenic OAB bladder urothelial cells to capsaicin and heat stimuli – role for the TRPV1 receptor in OAB pathogenesis”
- 2008: AUA Annual Meeting, Orlando, Florida “New insight into non-neurogenic OAB Pathogenesis – the role of BK channel in bladder urothelial cells”
- 2008: AUA Annual Meeting, Orlando, Florida “Urodynamic changes 24 months after Burch colposuspension and autologous fascia pubovaginal sling”
- 2008: AUA Annual Meeting, Orlando, Florida “Urodynamic changes associated with successful stress urinary incontinence surgery: a little tension is a good thing?”
- 2008: Society for Urodynamics and Female Urology Annual Meeting, Miami, FL and AUA Annual Meeting, Orlando, FL “Preoperative urodynamic testing does not predict postoperative voiding dysfunction among women undergoing surgery for SUI: results from a prospective randomized trial comparing Burch versus pubovaginal sling”
- 2007: American Urogynecological Association Annual Meeting, Hollywood, FL “High ‘costs’ of urinary incontinence among women electing surgery to treat stress incontinence.”
- 2007: American Urogynecological Association Annual Meeting, Hollywood, FL “Predictors of treatment failure 24 months after surgery for stress urinary incontinence”
- 2007: American Urogynecological Association Annual Meeting, Hollywood, FL “Preoperative urodynamic stress incontinence predicts continence outcomes after Burch or pubovaginal sling procedures.”
- 2007: American Urogynecological Association Annual Meeting, Hollywood, FL “Preoperative detrusor overactivity is a poor predictor of continence outcomes after Burch or pubovaginal sling procedures.”
- 2007: American Urogynecological Association Annual Meeting, Hollywood, FL “Valsalva leak point pressures do not predict continence outcomes after Burch or pubovaginal sling procedures”
- 2007: American Urogynecological Association Annual Meeting, Hollywood, FL “Adverse events from the Stress Incontinence Surgical Treatment Efficacy Trial (SISTEr).”
- 2007: International Continence Society Annual Meeting, Rotterdam, Netherlands “Predictors of treatment failure 24 months after surgery for stress urinary incontinence”
- 2007: International Continence Society Annual Meeting, Rotterdam, Netherlands “Adverse events from a randomized trial for the surgical treatment of stress urinary incontinence.”
- 2007: American Urological Association Annual Meeting, Anaheim, CA “Voiding symptoms are common in women planning continence surgery”
- 2007: American Urological Association Annual Meeting, Anaheim, CA “Evidence for Increased Sensitivity of Bladder Urothelial Cell to Carbachol, Based on Changes in $[Ca]_i$, in Patients with Overactive Bladder (OAB).”
- 2007: American Urological Association Annual Meeting, Anaheim, CA “Increased efficacy and potency of carbachol in inducing increases in intracellular calcium ($[Ca^{2+}]_i$) and outward potassium currents (I_O) in interstitial cystitis (IC) bladder urothelial cells (BUC) : Evidence of persistent phenotypic alteration of cultured human IC BUC.”
- 2007: American Urological Association Annual Meeting, Anaheim, CA “Anti-proliferative Factor’s (APF) Effect on Purinergic Signaling in Normal Human Bladder Urothelial Cells.”
- 2007: American Urological Association Annual Meeting, Anaheim, CA “Results of the SISTEr Randomized Surgical Trial Comparing the Autologous Rectus Fascia Sling to the Burch Colposuspension.”
- 2007: Society for Urodynamics and Female Urology, San Diego, CA “Link Between Cytokine Expression and Purinergic Signaling in Bladder Urothelial Cells (BUC).”

- 2006: International Continence Society Meeting, Christchurch, New Zealand “Race/Ethnic Differences in Symptoms and Impacts of Urinary Incontinence in Women Undergoing Stress Urinary Incontinence Surgery.”
- 2006: American Urogynecological Society Meeting, Palm Springs, California “Race/Ethnic Differences in Symptoms and Impacts of Urinary Incontinence in Women Undergoing Stress Urinary Incontinence Surgery.”
- 2006: Society for Urodynamics and Female Urology International Society of Pelvic Neuromodulation 2006 Winter Meeting, Grand Bahamas “Correlation of MESA and VLPP With Other Measures of Urinary Incontinence Severity.”
- 2006: American Urological Association Annual Meeting, Atlanta, GA “Demographic and Urodynamic Baseline Predictors of Valsalva Leak Point Pressure.”
- 2006: American Urological Association Annual Meeting, Atlanta, GA “Link Between Cytokine Expression and Augmented Purinergic Signaling in Interstitial Cystitis (IC) Bladder Urothelial Cells (BUC).”
- 2005: American Urological Association Annual Meeting, San Antonio, TX “The effect of carbachol on Kir2. conductance in bladder urothelial cells.”
- 2005: American Urological Association Annual Meeting, San Antonio, TX “The effect of epidermal growth factor (EGF) on inward potassium rectifying currents in bladder urothelial cells.”
- 2004: American Urological Association Annual Meeting, San Francisco, CA “Effect of botulinum toxin on overactive bladder contractions induced by intravesical ATP and capsaicin in the rat model.”
- 2004: American Urological Association Annual Meeting, San Francisco, CA “Extracellular adenosine triphosphate (ATP) stimulates more ATP release from interstitial cystitis bladder urothelial cells compared to control cells.”
- 2004: American Urological Association Annual Meeting, San Francisco, CA “Altered membrane ion channel properties in human bladder urothelial cells from interstitial cystitis patients: insights into basic urothelial cell function.”
- 2003: International Continence Society Meeting, Florence, Italy “Extracellular ATP Stimulates More ATP Release from Interstitial Cystitis Bladder Urothelial Cells Compared to Control Cells.”
- 2003: American Urological Association Annual Meeting, Chicago, IL “Effect of Potassium Chloride on Adenosine Triphosphate (ATP) Release by Cultured Bladder Uroepithelial Cells from Interstitial Cystitis (IC) and Control Patients.”
- 2003: American Urological Association Annual Meeting, Chicago, IL “Upregulation of ATP P2X3 Receptor in Bladder Urothelial Cells from Interstitial Cystitis (IC) Patients Induced by In Vitro Cell Stretch Suggesting Paracrine Function for Extracellular ATP.”
- 2002: American Urological Association Annual Meeting, Orlando, FL “Effect of Doxazosin on Stretch-Activated ATP Release in Bladder Urothelial Cells Obtained from BPH Patients.”
- 2001: 4th World Congress in Urologic Research, Tucson, AZ “Effect of Doxazosin on Stretch-Activated ATP Release in Bladder Urothelial Cells Obtained from BPH Patients.”
- 2001: American Urological Association Annual Meeting, Anaheim, CA “Stretch Activated Release of ATP by Bladder Uroepithelia is Augmented in Interstitial Cystitis.”
- 2001: International Bladder Symposium, Washington, DC “Stretch Activated Release of ATP by Bladder Uroepithelia is Augmented in Interstitial Cystitis.”
- 2000: Interstitial Cystitis Association-NIDDK Bi-Annual Meeting, Minneapolis, MN “Stretch Activated Release of ATP by Bladder Uroepithelia is Augmented in Interstitial Cystitis.”

- 2000: American Urological Association Annual Meeting, Atlanta, GA “Pilot Study on Effectiveness of Viagra for Treatment of Female Sexual Dysfunction: Physiologic Predictor for Success.”
- 2000: American Urological Association Annual Meeting, Atlanta, GA “Percutaneous S3 Nerve Root Stimulation Decreases Symptoms and Normalizes Urinary HB-EGF and APF Activity in IC Patients”
- 1999: International Bladder Symposium. November 4-7, 1999, Washington, D.C. “Percutaneous S3 Neuromodulation Decreases Symptoms and Normalizes Urinary HB-EGF and APF Activity in IC Patients.”
- 1999: New Perspectives in the Management of Female Sexual Dysfunction. October 22-34, 1999, Boston, MA “Pilot Study on Effectiveness of Viagra for Treatment of Female Sexual Dysfunction: Physiologic Predictor for Success.”
- 1999: Society of Uroradiology Annual Meeting, New Orleans, LA “Doppler evaluation of the effect of Sildenafil citrate on perineal blood flow in women.”
- 1999: American Urological Association Annual Meeting, Dallas, TX “Double Blind Placebo Controlled Study with Crossover to Assess Effect of Sildenafil on the Female Sexual Response.”
- 1999: American Urological Association Annual Meeting, Dallas, TX “Bladder Overdistention Decreases Urine Antiproliferative Activity and Increases Urine HB-EGF Levels in Patients with Interstitial Cystitis.”
- 1998: American Urological Association Annual Meeting, San Diego, CA “Mechanisms Underlying Hyperactive Voiding After Relief of Obstruction.”
- 1998: American Urological Association Annual Meeting, San Diego, CA “Neuroplasticity of the Aged Bladder: Evidence for Altered Neurotrophic Interactions.”
- 1997: Urodynamics Society Annual Meeting, New Orleans, LA “Detection of a spinal reflex in patients with bladder outlet obstruction using ice water cystometry.”
- 1997: American Urological Association Annual Meeting, New Orleans, LA “Hyperactive voiding in rats secondary to obstruction: expression of a novel gene encoding for protein D123.”
- 1997: American Urological Association Annual Meeting, New Orleans, LA “Altered neural control of micturition in the aged F344 rat.”
- 1996: International Bladder Symposium, Boston, MA “Genetic Models of Hyperactive Voiding in Rats”
- 1996: American Urological Association Annual Meeting, Orlando, FL “Reversibility of hyperactive voiding after bladder outlet obstruction”
- 1994: Urodynamics Society Meeting, San Francisco, CA “Compliance and compliance of clean intermittent catheterization in SCI population.”
- 1984: Society of Complex Carbohydrates, Chicago, IL “Processing of d,beta-diaspartamide of TRIS (beta-lactosyloxamethyditrisc-6,aminohexamidino)-methane by isolated hepatocytes.”

Regional

- 2017: Annual New England AUA Sectional Meeting “Urothelial genes modulating micturition behavior induced by a repetitive lipopolysaccharide (LPS) exposure in an ovariectomized (OVX) mouse model” (*Poster Presentation*), Montreal, Quebec, Canada
- 2011: Joint Mid-Atlantic New England AUA Meeting, Orlando, FL Goldmark E, Heuer M, Chai TC. “Ileal loop urinary diversion for non-bladder cancer Indications – long-term outcomes and complications.”

- 2009: MidAtlantic AUA Annual Meeting, Williamsburg, VA Kusakabe AO, Chai TC. “Novel Reconstructive Repair of Ileal Loop Stomal Stenosis or Left Ureteroileal Anastomotic Stricture with a New Segment of Ileum”
- 2008: MidAtlantic AUA Annual Meeting, Cambridge, Maryland Tully BT, Sun Y, Berkowitz J, Li M, Chai TC. “Defects in muscarinic receptor cell signaling in a bladder cancer cell line”
- 2006: Mid-Atlantic AUA Meeting, Washington, DC “Increased Efficacy and Potency Of Carbachol In Inducing Increases In Intracellular Calcium ([Ca²⁺]_i) In Overactive Bladder (OAB) and Interstitial Cystitis (IC) Bladder Urothelial Cells (BUC).”
- 2006: Mid-Atlantic AUA Meeting, Washington, DC “Changes In M2 Receptor Expression On Human Bladder Urothelial Cells (BUC) In Response To Carbachol and Tolterodine.”
- 2005: Mid-Atlantic AUA Meeting, Phoenix, AZ “Effect Of Muscarinic Agonists On Outward Current In Bladder Urothelial Cells”
- 2005: Mid-Atlantic AUA Meeting, Phoenix, AZ “Normalization Of Epidermal Growth Factor (EGF) Mediated Alterations In Interstitial Cystitis (IC) Bladder Urothelial Cells (BUC) Correlate With Normalization Of Adenosine Triphosphate (ATP) Alterations.”
- 2004: Mid-Atlantic AUA Meeting, Cambridge, MD “The effect of epidermal growth factor (EGF) on Kir2.1 Channel in Bladder Urothelial Cells.”
- 2003: Mid-Atlantic AUA Meeting, Boca Raton, MD “Effect of Botulinum Toxin on ATP-induced Bladder Contractions in Rat Bladders.”
- 2002: Mid-Atlantic AUA Meeting, Baltimore, MD “Effect of Potassium Chloride on Adenosine Triphosphate (ATP) Release by Cultured Bladder Uroepithelial Cells from Interstitial Cystitis (IC) and Control Patients.”
- 2002: Mid-Atlantic AUA Meeting, Baltimore, MD “Upregulation of P2X3-ATP Receptor in Bladder Uroepithelial Cells from Interstitial Cystitis (IC) Patients Induced by In Vitro Cell Stretch Suggesting Paracrine Function for Extracellular ATP.”
- 2001: Annual Mid-Atlantic AUA Meeting, Hot Springs, VA “Evidence for Increased Stretch-Activated ATP Release from Bladder Epithelial Cells Obtained from BPH Patients.”
- 2000: Annual Mid-Atlantic AUA Meeting, Rio Mar, Puerto Rico “Stretch Activated Release of ATP by Bladder Uroepithelia is Augmented in Interstitial Cystitis.”
- 1994: North Central AUA Meeting, Boca Raton, FL “Compliance and complications of clean intermittent catheterization in spinal cord injured patients.”
- 1993: North Central AUA Meeting, Milwaukee, WI “Laparoscopic varicocelectomy for treatment of male infertility.”
- 1992: North Central AUA Meeting, Cerromar, Puerto Rico “Comparison of voiding symptom scores in age matched males and females.”

Professional Service

Peer Review Groups/Grant Study Sections

National Institutes of Health

- 2013-2018: Ad Hoc Reviewer – CSR, Special Emphasis Panel, DKUS IRG, Ganesan Ramesh, PhD - SRO
- 2013: Ad Hoc Reviewer –CSR, Special Emphasis Panel 2013 DKUS-L (81), Atul Sahai, PhD (SRA), Nov. 2013
- 2013: Ad Hoc Reviewer –CSR, Special Emphasis Panel 2013 DKUS-L (81), Atul Sahai, PhD (SRA), July 2013
- 2013: Ad Hoc Reviewer –CSR, Special Emphasis Panel 2013 DKUS-L (81), Atul Sahai, PhD (SRA), March 12, 2013
- 2012 – 2018: Member, NIDDK DDK-D (K- and T-applications), Barbara Woynarowska, PhD (SRA)

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- 2012: Ad Hoc Chair of SEP ZDK1 GRB-G (C4) – NIDDK Urologic Diseases in America Contract Review, Xiaodu Guo, MD, PhD (SRO)
- 2011: Ad Hoc Reviewer – NIBIB Program Project (P01), Ruixia Zhou, PhD (SRO)
- 2011: Ad Hoc Reviewer – CSR Special Emphasis Panel 2011/05 ZRG1 DKUS-C (81) S, Patricia Greenwel, PhD (SRO)
- 2011: Ad Hoc Reviewer – CSR DIRH, Jacinta Bronte-Tinkew, PhD (SRO)
- 2010: Ad Hoc Reviewer – CSR UKGD Special Emphasis Panel M., Lourdes Ponce, PhD (SRO)
- 2010: Ad Hoc Reviewer – CSR Special Emphasis Panel 2011/05 ZRG1 DKUS-A (03) M, Patricia Greenwel, PhD (SRO)
- 2010: Ad Hoc Reviewer – NIDDK KUH T32-Applications, Xiaodu Guo, PhD (SRO)
- 2010: Ad Hoc Reviewer – NIDDK X01-Awards (ZDK1 GRB-S (J3), Central Repositories, Non-Renewable Sample Access PAR 10-90, Najma Begum, PhD (SRO)
- 2010: Ad Hoc Reviewer – CSR R21-Awards (ZRG1 DKUS-G (80) S), Pilot Clinical Studies in Nephrology and Urology, Ryan Morris, PhD (SRO)
- 2010: Ad Hoc Reviewer – NIDDK KUH K-Applications, Xiaodu Guo, PhD (SRO)
- 2010: Ad Hoc Reviewer – CSR Special Emphasis Panel (ZRG1 DIRH-J (01)), Jacinta Bronte-Tinkew, PhD (SRO)
- 2010: Ad Hoc Reviewer – NIDDK KUH-F32 Fellowship Applications, Xiaodu Guo, PhD (SRO)
- 2010: Ad Hoc Reviewer – NIDDK CAMUS Research Network Applications, Carol Goter Robinson, PhD (SRO)
- 2010: Ad Hoc Reviewer – CSR Special Emphasis Panel (ZRG1-DKUS-B03M), Najma Begum, PhD (SRO)
- 2009: Ad Hoc Reviewer – CSR Special Emphasis Panel (ZRG1 DKUS (12) B), Ryan Morris, PhD (SRO)
- 2009: Ad Hoc Reviewer – NIDDK NIDDK T-32 and K-Applications, Xiaodu Guo, PhD (SRO)
- 2009: Ad Hoc Reviewer – CSR Special Emphasis Panel (ZRG1 DKUS-E), Bonne Burgess-Beusse, PhD (SRO)
- 2009: Ad Hoc Reviewer – CSR Small Business Grant Review (ZRG1 DKUS-K(11)), Krystyna Rys-Sikora, PhD (SRO)
- 2005 – 2008: Member, CSR UKGD Study Section, Ryan Morris, PhD (SRA)
- 2005: Ad Hoc Reviewer – CSR Special Emphasis Panel ZDK1 GRB-8, Ancillary Studies in Obesity, Maria Avila-Bloom, PhD (SRO)
- 2005: Ad Hoc Reviewer – CSR Special Emphasis Panel SEP UKGD IRG, Shirley Hilden, PhD (SRA)
- 2004: Ad Hoc Reviewer – CSR Special Emphasis Panel (SEP) ZRG1 RUS-D 50, 12, Chris Langub, PhD (SRA)
- 2004: Ad Hoc Reviewer – CSR Special Emphasis Panel ZRG1 RUS-D (01), Chris Langub, PhD (SRA)
- 2002: Ad Hoc Reviewer – CSR Special Emphasis Panel ZRG1 SMB (05)
- 2002: Ad Hoc Reviewer – NIDDK Special Study Section for NIH RFA DK02-026, Alternative Therapies for Benign Prostate Symptoms
- 1999 – 2002: Ad Hoc Reviewer – NIDDK DDK-D (K- and T-applications)
- 1998: Ad Hoc Reviewer – NIDDK, RFA DK98-002, The Effect of Diabetes on Urinary Bladder and Erectile Function

Federal Advisory Panels

- 2013 – 2021: FDA, Member of Advisory Committee for Reproductive Health Drugs

- 2013 – 2017: NIDDK, Chair, Symptoms of Lower Urinary Tract Dysfunction Research Network External Expert Advisory Panel LURN-EEP
2001: NIDDK, Member of NIDDK Bladder Research Progress Writing Committee

Non-Federal Review Panels

- 2014: Diabetes Complications Consortium Pilot Grant Reviewer
2012: University of Pennsylvania O'Brien Urology Research Center, Pilot and Feasibility Project Reviewer
2010: Wellcome Trust (UK) Grants Reviewer
2008 – 2010: American Urogynecologic Society Foundation Grants Reviewer
2007 – 2018: American Urologic Association Foundation Research Scholar Grant Reviewer
2004 – 2011: Pfizer OAB/LUTS Grants Reviewer
2004: American Foundation for Urologic Diseases Grant Reviewer
2002: University of Washington, Diabetes Endocrinology Research Center (DERA) Pilot And Feasibility Program Project Reviewer
2001 – 2005: Interstitial Cystitis Association (ICA) Fishbein Family Foundation Grant Reviewer
2001: Research into Ageing Fellowship (UK) Grant Reviewer

Journal Services

Editorial Activities

- 2014 – Co-Editor-in-Chief, *Bladder*
2016 – 2020: Associate Editor, *Journal of Urology*
2011 – 2015: Assistant Editor, *Journal of Urology*
2007 – 2018: Editorial Board, *American Journal of Physiology - Renal*
2011 – 2015: Editorial Board, *Translational Andrology and Urology*
2012 – 2014: Editorial Board, *International Urogynecology Journal*
2006 – 2014: Editorial Board, *Current Bladder Dysfunction Reports*

Reviewer

- 2018 *Nature*
2006 – present: *American Journal of Physiology – Renal*
2006 – present: *American Journal of Physiology – Regulatory, Integrative and Comparative*
2006 – present: *American Journal of Physiology – Cell Physiology*
2003 – present: *BJU International*
2001 *Brain Research*
2009 *Clinical Chemistry*
2009 – present: *European Urology*
2012 – present: *FASEB Journal*
2005 *FEBS Letters*
2007 *Journal of Biological Chemistry*
1998 – present: *Journal of Urology*
2002 *Nature Clinical Practice Urology*
2001 – present: *Neurourology and Urodynamics*
2002 *Neuroscience*
2003 *Physiologic Genomics*
2011 – present: *PLoS ONE*
2000 – present: *Urology*

Professional Service for Professional Organizations

American Urological Association

- 2018 – present: Public Policy Council Member
- 2018 – 2020: Chair, Research Advocacy Committee
- 2018 – 2020: Vice Chair, Guidelines Panel for “Recurrent Urinary Tract Infection”
- 2015 – 2018: Vice Chair, Research Advocacy Committee
- 2018 – 2019: Guidelines Panel Committee for “Recurrent UTI”
- 2012 – present: Research Council Member
- 2012 – 2014: Program Chair, Science of Female Pelvic Health Meeting during annual AUA Meetings
- 2011 – 2012: Audio Visual Committee Consultant
- 2010 – 2011: Guidelines Panel Committee for “Overactive Bladder”
- 2005 – present: AUA Meeting Abstract Reviewer

American Urological Association Foundation/Urology Care Foundation

- 2010 – present: Reviewer of Research Scholar Awards.
- 2013: Co-Chair, AUAF/SBUR Annual Summer Research Conference “Patient Phenotyping Advancing Treatment of Lower Urinary Tract Dysfunction
- 2010: Program Co-Chair AUAF/SBUR Summer Research Conference “Urinary Incontinence Integrating Basic and Clinical Research Perspectives”

American Board of Urology

- 2015 – 2019: Examiner for Part II Certifying Exam (Oral Boards)
- 2009 – 2013: Senior Editorial Consultant ABU/AUA EC
- 2006 – 2009: Member of ABU/AUA Examination Committee

Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction

- 2017 – 2020: Chair of Communications Committee, Executive Committee
- 2014 – 2017: Executive Committee, Member-at-Large
- 2010 – 2014: Basic Science Program Chair for Annual Meeting
- 2009 – 2012: Nominating Committee Member

American Urogynecologic Society

- 2011 – 2012: Faculty for AUGS Research Scholars
- 2010: Research Summit Panel

MidAtlantic Section of American Urological Association

- 2010 – 2011: Investment Committee
- 2007 – 2010: Board of Directors
- 2007 – 2008: Program Chair, 2008 Mid-Atlantic AUA Meeting

Prevention of Lower Urinary Tract Symptoms (PLUS) Consortium

- 2018 – present: Chair of Policy and Evaluation Subcommittee

Institutional Service for Univ of MD School of Medicine

- 2011: Interviewer for Office of Admissions
- 2010: Search Committee for Chair of Dept. of Ob/Gyn
- 2007 – 2008: Dept. of Surgery Representative, SOM Faculty Council
- 2004: Medical Student Research Day Judge
- 2003: Speaker for White Coat Ceremony for Class 2007
- 2002 – 06: Interviewer for Office of Admissions

Yale University School of Medicine Service

- 2015 – 2018: Member of Term Appointments and Promotions Committee
2017 – 2019: Admissions Committee interviewer for School of Medicine
2017 – present: Co-Chair, Department of Urology Urology Quality Assurance and Improvement Committee

Public Service

Patient Support Group Presentations

- 2014 – 2015: Multiple Sclerosis Association, North Haven, CT “Bladder Problems in MS Patients”
2014: Community Outreach~ Jeffreys, Milford, CT “Female Urinary Disorders, Defecatory Disorders and Pelvic Organ Prolapse”
2008: American Syringomyelia & Chiari Alliance Project Annual Conference. “Urological Issues in Patients with Spinal Cord Dysfunction”.
2005: ICA Regional Meeting, Alexandria “Treatment of IC – Anything New?”
2003: ICA 20th Anniversary Meeting, Old Town Alexandria, VA “Chronic Pelvic Pain Syndrome AKA Chronic Prostatitis”.
2003: Interstitial Cystitis Association (ICA) Regional Support Group Meeting, Maryland City Public Library, Laurel, MD, “Interstitial Cystitis, a Hypersensory Pelvic Disorder”.
2001: Us Too, Prostate Cancer Support Group Meeting, University of Maryland Hospital, Baltimore, MD “Effect of Prostate Cancer Treatments on Bladder Function”
2001: Interstitial Cystitis Association Maryland Chapter Meeting, Columbia, MD “Surgical Management of Interstitial Cystitis”
1999: American Foundation for Urologic Diseases Bladder Health Week, University of Maryland Hospital, Baltimore, MD “Urinary Incontinence”

Community Service

- 2010: Judge at National Junior Science and Humanities Symposium. Bethesda, MD
2004 – 2012: Deacon at Chapelgate Presbyterian Church (PCA), Marriottsville, MD
2004 – 2006: Secretary of Diaconate Board, Chapelgate Presbyterian Church, Marriottsville, MD
2003 – 2005: Chair of Advisory Committee for Maryland Regional Junior Science and Humanities Symposium (JSHS)
2004: Roundtable Leader “Science and Society”, National Junior Science and Humanities Symposium, Hunt Valley Marriott, Hunt Valley, MD
2004 – 2007: Medical Advisory Board, Interstitial Cystitis Association (ICA)

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Peer Reviewed Original Research:

1. Chai TJ, **Chai TC**. Bactericidal activity of cerumen. *Antimicrob Agents Chemother*. 1980 Oct;18(4):638-41
2. Giam CZ, **Chai T**, Hayashi S, Wu HC: Prolipoprotein modification and processing in E. coli. a unique secondary structure in prolipoprotein signal sequence for the recognition by glyceryl transferase. *Eur J Biochem* 1984, 141(2):331-7
3. **Chai TC**, Belville WD, McGuire EJ, Nyquist L. Specificity of the America Urological Association voiding symptom index: comparison of unselected and selected samples of both sexes. *J Urol*. 1993 Nov;150(5 Pt 2):1710-3.
4. **Chai T**, Chung AK, Belville WD, Faerber GJ. Compliance and complications of clean intermittent catheterization in the spinal cord injured patient. *Paraplegia*. 1995 Mar;33(3):161-3.

5. **Chai TC**, Steers WD, Broder SR, Rachenwald M, Tuttle JB: Characterization of laterality of innervation of the rat bladder. *Scand J Neph Urol* 1996, 30 (Suppl 179):87-92
6. **Chai TC**, Gray ML, Steers WD. The incidence of a positive ice water test in bladder outlet obstructed patients: evidence for bladder neural plasticity. *J Urol*. 1998 Jul;160(1):34-8.
7. **Chai TC**, Gemalmaz H, Andersson KE, Tuttle JB, Steers WD. Persistently increased voiding frequency despite relief of bladder outlet obstruction. *J Urol*. 1999 May;161(5):1689-93.
8. **Chai TC**, Zhang CO, Shoenfelt JL, Johnson HW Jr, Warren JW, Keay S. Bladder stretch alters urinary heparin-binding epidermal growth factor and antiproliferative factor in patients with interstitial cystitis. *J Urol*. 2000 May;163(5):1440-4
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10. **Chai TC**, Zhang C, Warren JW, Keay S. Percutaneous sacral third nerve root neurostimulation improves symptoms and normalizes urinary HB-EGF levels and antiproliferative activity in patients with interstitial cystitis. *Urology*. 2000 May;55(5):643-6.
11. **Chai TC**, Andersson KE, Tuttle JB, Steers WD. Altered neural control of micturition in the aged F344 rat. *Urol Res*. 2000 Oct;28(5):348-54
12. Keay SK, Zhang CO, Shoenfelt J, Erickson DR, Whitmore K, Warren JW, Marvel R, **Chai T**. Sensitivity and specificity of antiproliferative factor, heparin-binding epidermal growth factor-like growth factor, and epidermal growth factor as urine markers for interstitial cystitis. *Urology*. 2001 Jun;57(6 Suppl 1):9-14.
13. Sun Y, Keay S, De Deyne PG, **Chai TC**. Augmented stretch activated adenosine triphosphate release from bladder uroepithelial cells in patients with interstitial cystitis. *J Urol*. 2001 Nov;166(5):1951-6.
14. Sun Y, MaLossi J, Jacobs SC, **Chai TC**. Effect of doxazosin on stretch-activated adenosine triphosphate release in bladder urothelial cells from patients with benign prostatic hyperplasia. *Urology*. 2002 Aug;60(2):351-6
15. Sun Y, **Chai TC**. Effects of dimethyl sulphoxide and heparin on stretch-activated ATP release by bladder urothelial cells from patients with interstitial cystitis. *BJU Int*. 2002 Sep;90(4):381-5
16. Keay S, Zhang CO, Shoenfelt JL, **Chai TC**. Decreased in vitro proliferation of bladder epithelial cells from patients with interstitial cystitis. *Urology*. 2003 Jun;61(6):1278-84
17. Zhang CO, Li ZL, Shoenfelt JL, Kong CZ, **Chai TC**, Erickson DR, Peters KM, Rovner ES, Keay S. Comparison of APF activity and epithelial growth factor levels in urine from Chinese, African-American, and white American patients with interstitial cystitis. *Urology*. 2003 May;61(5):897-901.
18. Keay S, Seillier-Moiseiwitsch F, Zhang CO, **Chai TC**, Zhang J. Changes in human bladder epithelial cell gene expression associated with interstitial cystitis or antiproliferative factor treatment. *Physiol Genomics*. 2003 Jul 7;14(2):107-15
19. Sun Y, **Chai TC**. Up-regulation of P2X3 receptor during stretch of bladder urothelial cells from patients with interstitial cystitis. *J Urol*. 2004 Jan;171(1):448-52.
20. Keay S, Zhang CO, **Chai T**, Warren J, Koch K, Grkovic D, Colville H, Alexander R. Antiproliferative factor, heparin-binding epidermal growth factor-like growth factor, and epidermal growth factor in men with interstitial cystitis versus chronic pelvic pain syndrome. *Urology*. 2004 Jan;63(1):22-6.
21. Atiemo H, Wynes J, Chuo J, Nipkow L, Sklar GN, **Chai TC**. Effect of botulinum toxin on detrusor overactivity induced by intravesical adenosine triphosphate and capsaicin in a rat model. *Urology*. 2005 Mar;65(3):622-6
22. Tennstedt S, The Urinary Incontinence Treatment Network (UITN)* (**Collaborator-UITN**). Design of the Stress Incontinence Surgical Treatment Efficacy Trial (SISTER) Study. *Urology* 2005, 66:1213-17 *UITN is a NIH multi-institutional consortium in which T.C. Chai is a PI at University of Maryland site and is part of the authorship line when UITN is used

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24. Sun Y, Chen M, Lowentritt BH, Van Zijl PS, Koch KR, Keay S, Simard JM, **Chai TC**. EGF and HB-EGF modulate inward potassium current in human bladder urothelial cells from normal and interstitial cystitis patients. *Am J Physiol Cell Physiol*. 2007 Jan;292(1):C106-14.
25. Lemack GE, Xu Y, Brubaker L, Nager C, **Chai T**, Moalli P, Kraus SR, Kerr L, Sirls L, Stoddard A; Urinary Incontinence Treatment Network. Clinical and demographic factors associated with valsalva leak point pressure among women undergoing burch bladder neck suspension or autologous rectus fascial sling procedures. *Neurourol Urodyn*. 2007;26(3):392-6.
26. Albo M, Wruck L, Baker J, Brubaker L, **Chai T**, Dandreo KJ, Diokno A, Goode P, Kraus S, Kusek JW, Lemack G, Lowder J, Steers W; Urinary Incontinence Treatment Network. The relationships among measures of incontinence severity in women undergoing surgery for stress urinary incontinence. *J Urol*. 2007 May;177(5):1810-4
27. Albo ME, Richter HE, Brubaker L, Norton P, Kraus SR, Zimmern PE, **Chai TC**, Zyczynski H, Diokno AC, Tennstedt S, Nager C, Lloyd LK, FitzGerald M, Lemack GE, Johnson HW, Leng W, Mallett V, Stoddard AM, Menefee S, Varner RE, Kenton K, Moalli P, Sirls L, Dandreo KJ, Kusek JW, Nyberg LM, Steers W; Urinary Incontinence Treatment Network. Burch colposuspension versus fascial sling to reduce urinary stress incontinence. *N Engl J Med*. 2007 May 24;356(21):2143-55.
28. The Urinary Incontinence Treatment Network (UITN)*(**Collaborator-UITN**). Design of the Behavior Enhances Drug Reduction of Incontinence (BE-DRI) study. *Contemporary Clinical Trials* 2007, 28:48-58 *UITN is a NIH multi-institutional consortium in which T.C. Chai is a PI at University of Maryland site and is part of the authorship line when UITN is used
29. Kraus SR, Markland A, **Chai TC**, Stoddard A, FitzGerald MP, Leng W, Mallett V, Tennstedt SL; Urinary Incontinence Treatment Network. Race and ethnicity do not contribute to differences in preoperative urinary incontinence severity or symptom bother in women who undergo stress incontinence surgery. *Am J Obstet Gynecol*. 2007 Jul;197(1):92.e1-6
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37. Richter HE, Burgio KL, **Chai TC**, Kraus SR, Xu Y, Nyberg L, Brubaker L. Predictors of outcomes in the treatment of urge urinary incontinence in women. *Int Urogynecol J Pelvic Floor Dysfunct*. 2009 May;20(5):489-97
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Nager CW, Kraus SR, Kenton K, Sirls L, **Chai TC**, Wai C, Sutkin G, Leng W, Litman H, Huang L, Tennstedt S, Richter HE; Urinary Incontinence Treatment Network. Urodynamics, the supine empty bladder stress test, and incontinence severity. *Neurourol Urodyn*. 2010 Sep;29(7):1306-11.

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56. Li M, Sun Y, Simard JM, **Chai TC**. Increased transient receptor potential vanilloid type 1 (TRPV1) signaling in idiopathic overactive bladder urothelial cells. *Neurourol Urodyn.* 2011 Apr;30(4):606-11
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60. Goode PS, Burgio KL, Kraus SR, Kenton K, Litman HJ, Richter HE; Urinary Incontinence Treatment Network. (COLLABORATOR-UITN) Correlates and predictors of patient satisfaction with drug therapy and combined drug therapy and behavioral training for urgency urinary incontinence in women. *Int Urogynecol J.* 2011 Mar;22(3):327-34
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 65. Kraus SR, Lemack GE, Richter HE, Brubaker L, **Chai TC**, Albo ME, Sirls LT, Leng WW, Kusek JW, Norton P, Litman HJ; Urinary Incontinence Treatment Network. Changes in Urodynamic Measures Two Years After Burch Colposuspension or Autologous Sling Surgery. *Urology* 2011, 78(6):1263-8
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