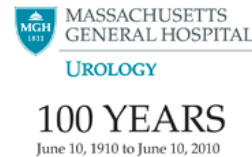




Massachusetts General Hospital Urologic Oncology Fellowship



SUO Fellowship Curriculum

Year 1:

- Summer Program Clinical Effectiveness Course at Harvard School of Public Health
- Research projects
- Clinical responsibilities will be limited
 - one half-day session of clinic per week. During this clinic session, the fellow will be responsible for clinical care and surgical management of his/her own patients.
- Join Dr. Olumi and/or Dr. Dahl during one half-day GU Oncology Multidisciplinary Clinic
- Fellow will share weekend call with Urology Cabot Attending.
- Limited surgical exposure to operative cases during first year

SUO Fellowship Curriculum

Year 2

- GU Medical Oncology: one month session with GU Medical Oncologists (Drs. Matthew Smith, Dror Michaelson, Rick Lee & Phil Saylor) and will function as fellow on their service.
- GU Radiation Oncology: will spend one month with our GU Radiation Oncologists (Dr. Anthony Zietman, John Coen and/or Jason Efstathiou) and will function as a fellow on their service.
- Surgical exposure in the operating room will increase during second year with attention to specific urologic oncologic cases.
- Fellow will continue to maintain and manage his/her own clinic session for a one half-day session per week.
- Fellow will continue to share in the weekend on-call.

Faculty

17 Members of the Department (8 Urologic Oncologist)

Christopher Cutie: Oncology, Continent Diversion, Medical Economics

Douglas M. Dahl: Laparoscopic Oncology; Clinical outcomes

Adam S. Feldman: Oncology; Proteomic discovery

Niall Heney: Oncology, general urology

W. Scott McDougal: Oncology, Reconstruction; Transport kinetics

Francis McGovern: Oncology

Aria F. Olumi: Oncology; Molecular biology

Shahin Tabatabaei: Oncology, BPH, Clinical outcomes

Stephen Dretler: Stones; Device development

Brian Eisner: Stones; basic biology of stones

Pablo Gomery: Voiding Dysfunction, Urodynamics

Joseph Grocela: Female Urology; Clinical outcomes

Dicken Ko: Renal Transplantation, Immunology

Theodore Ongaro: Impotence, General Urology

Dianne Sacco: Stones; Clinical outcomes

Cigdem Tanrikut: Infertility; Clinical outcomes

Chin-Lee Wu: Pathology, Oncologic Research; Molecular biology

Residency Format

3 residents per year

1 year general surgery

0, 4 mos, 8 mos research or general surgery

4 years urology

4 mos Attending: Cabot Service Chief

Urology Residency Training

- Urology Residency – 5 year program
- 3 residents per year
- Junior resident on O'Neil, Leadbetter or Kerr Service MGH
- Junior at Children's: 2 mos
- Senior, Clinical Senior MGH
- Senior Children's: 3 mos
- Research / Outpatient: 6 mos
- Chief Outpatient: MGH, Danvers
- Chief Resident: One year



Outpatient Visits: 28,880

- 8% growth FY 10
- 17% growth FY 09

Outpatient Office Procedures: 3412

- Cystoscopy, laser fulguration bladder tumors, vasectomies, stent placement and removal, minor surgical procedures, periurethral injections, prostate biopsies

Main OR Procedures: 3077

- 13.3% growth FY10
- Six operating rooms

Danvers OR

- Outpatient surgery
- 142 cases—FY 10, first year of operation

Academic Productivity

Research support: \$1.3 million in funding

Two full time research laboratories

Representation by residents and faculty at all regional, national and major international meetings

- NE AUA: 16% abstracts 2010, 20% abstracts 2009
- Combined NE-AUA and Mid-Atlantic AUA: MGH represented 14% of all presentations

Research Programs in Urology Department

- Urologic Oncology
- Stone Disease
- Geriatric Urology
- Infertility
- Benign Prostatic Hyperplasia
- Urologic Complications of Diabetes

Urologic Oncology

Kidney Cancer

- A comparison of nephron sparing techniques: percutaneous radiofrequency ablation (RFA) vs. open and laparoscopic partial nephrectomy (Feldman)
- Renal Biopsy for Suspicious Renal Masses: The MGH Cohort of 900 patients (Feldman)
- Molecular pathogenesis of angiomyolipoma and other TSC related neoplasm (Wu – *funded by NIH/Program Project*)

Urologic Oncology

Bladder Cancer

- Multi-Institutional Bladder Cancer Quality Care Initiative for non-metastatic muscle invasive transitional cell carcinoma of the bladder (Feldman)
- RTOG 0926: Phase II -- Aggressive Forms of Stage T1 Bladder – Management of Trimodality therapy (TURBT, Chemo- & Radiotherapy) (Dahl)
- RTOG 0524: Paclitaxel and Radiation Therapy With or Without Trastuzumab in Treating Patients Who Have Undergone Surgery for Bladder Cancer (Dahl)
- Genetic signatures in T1 G3 bladder cancer (McDougal)
- Laser to treat small low grade bladder cancers (Tabatabaei)
- Natural history of radiation cystitis, potential bio markers for hemorrhagic radiation cystitis (Tabatabaei)

Urologic Oncology

Prostate Cancer

- Biomarkers for Active Surveillance in Prostate Cancer (Feldman – funded by AUA Foundation, DOD & Prostate Cancer Foundation)
- Circulating Tumor Cell analysis in Prostate Cancer (Dahl)
- Molecular Mechanisms of Resistance to Pro-Apoptotic Therapies (Olumi – funded by New York Academy of Medicine)
- Metabolic state of Prostate Cancer Cells determines sensitivity to Metformin in Prostate Cancer Cells (Olumi)
- Genetic signatures in prostate cancer (McDougal & Wu)
- Template biopsy in patients who are highly suspicious for having prostate cancer but have had negative biopsies (McDougal)
- Metabolomics of prostate cancer in prostate biopsy specimens (McDougal & Wu – funded by NIH)
- Molecular pathogenesis of angiomyolipoma and other TSC related neoplasm (Wu – funded Program Project Grant from NIH)

Penile Cancer

- Penile conserving surgery for penile cancer (McDougal)

GU Tissue Pathology Tissue Bank

- Fresh frozen tissue (Wu & McDougal – Funded by MGH Bertucci Research Fund)
 - prostate: 2375
 - kidney:496
 - bladder: 80
 - testis:42
 - penile:2
 - adrenal:118

Urologic Stone Disease

- *Advanced Ureteroscope Navigation System for Calculi Removal (Sacco – funded by CIMIT)*
- Impact of testosterone on kidney stone risk (Eisner)
- Minimizing radiation in CT imaging of nephrolithiasis (Eisner)
- Role of vitamin D in the pathogenesis of kidney stone disease (Eisner)
- Relationship between kidney stones and cardiovascular disease (Eisner)
- Antibiotic use after endoscopic stone surgery (Eisner)
- Office-Based Endourology Using Fluoroscopic Guidance: Clinical Outcomes and Cost-Effectiveness (Sacco)
- Stone Culture is Associated with Admission for Urosepsis After Endourological Procedures (Sacco)

Geriatric Urology

- Geriatric Urology, an integrated practice unit with geriatrics and physiatry (Gomery – funded by MGPO)

Urologic Infertility

- Environmental Agents and Reproductive Health (Tanrikut)
- The Effect of Bariatric Surgery on Semen Parameters (Tanrikut)
- Ultra-rapid Vitrification of Human Sperm (Tanrikut)

Benign Prostatic Hyperplasia

- Reduced Levels of 5-alpha Reductase 2 in Adult Prostate Tissue: Implications for BPH Therapy (Olumi -- funded by NIH/R01)
- Use of EVICEL® Fibrin Sealant for better hemostasis following Transurethral Resection of the Prostate (TURP) or Photoselective Vaporization of Prostate (PVP) (Tabatabaei – funded by Ethicon)
- Prospective study of high power 532 nm GreenLight laser on patients with symptomatic BPH (Tabatabaei)
- Ejaculation Preserving PVP (Tabatabaei)
- Effects of nitrous oxide in detrusor function (Tabatabaei)

Urologic Complications of Diabetes

- Inflammatory Mediators and Bladder Dysfunction in Type 2 Diabetes (Olumi – *funded by NIH & AUA Research Foundation*)

MGH at Forefront of Progress



1846

Progress



Jack W. Szostak, PhD
2009 Nobel Laureate in
Physiology / Medicine
2009

Goal: Department of Urology

To reduce the disease burden for patients with urologic issues by improving:

- Clinical Care
- Teaching
- Research

Application Process & Deadlines

- Apply using the SUO supplied forms
- Submit application directly to MGH Program Director
- **Application Deadline: March 30th of application year**
- **Interviews: By invitation in spring of application year. Exact dates to be determined.**