



Alan Eih Chih Thong

Clinical Associate Professor, Urology

CLINICAL OFFICE (PRIMARY)

- **Urologic Oncology**

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Bio

BIO

Dr. Thong is a surgeon specializing in urologic oncology. He has expertise in all aspects of prostate, kidney, bladder, and testicular cancer care, including endoscopic, robotic, and open surgery, and has a special interest in complex cases including: salvage surgery following radiation or chemotherapy, resection of locally advanced tumors, minimal access robotic surgery, and MRI-US fusion targeted biopsies. Dr. Thong is the first surgeon in northern California to utilize single port robotic assisted laparoscopic technology for both pelvic and retroperitoneal surgeries. He has won numerous awards including the NIH Ruth L. Kirschstein National Research Service Award, and has authored and co-authored publications on the treatment of urologic cancers.

CLINICAL FOCUS

- Urologic oncology
- Urology
- Value-Based Health Insurance

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Urology

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Active member, Society of Urologic Oncology (2015 - present)
- Member, American Society of Clinical Oncology (2015 - present)
- Associate member, American Urological Association (2010 - present)
- Member, American Medical Association (2008 - present)

PROFESSIONAL EDUCATION

- Residency: Stanford University Dept of General Surgery (2010) CA
- AB, Princeton University (2004)

- MD, University of Chicago, Pritzker School of Medicine (2008)
- Residency, Stanford University (2014)
- Fellowship, Memorial Sloan Kettering Cancer Center (2016)
- MPH, Harvard University (2016)
- Board Certification: Urology, American Board of Urology (2018)

LINKS

- <http://urology.stanford.edu/>: <http://urology.stanford.edu/>

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Oncology (Fellowship Program)

Publications

PUBLICATIONS

- **Large multicenter validation of urine RNA profile for urothelial carcinoma detection and surveillance.** *The Journal of clinical investigation*
Mach, K. E., Kornberg, Z., Shkolyar, E., Long, J., Lee, T. J., La, V., Yoo, I., Rodriguez, G., Thong, A. E., Prado, K. B., Shah, J. B., Leppert, J. T., Skinner, et al
2026
- **Field-effect-informed urine liquid biopsy for bladder cancer.** *Cell*
Shi, W. Y., Liu, K. J., Esfahani, M. S., Mach, K. E., Phillips, N. A., Almanza, D., Bajpai, R. K., Schroers-Martin, J. G., Trabano, L., Lee, T. J., La, V., Rodriguez, G., Holton, et al
2026
- **Differences in postoperative communication patterns among patients with limited English proficiency following radical cystectomy for bladder cancer.** *Urologic oncology*
Chen, A. L., Zhang, C. A., Ogunkeye, J., Ge, T. J., Nguyen, N., Shkolyar, E., Thong, A. E., Leppert, J. T., Gill, H. S., Shah, J. B., Skinner, E., Prado, K. B.
2025
- **The Challenge of External Generalisability: Insights from the Bicentric Validation of a [68Ga]Ga-PSMA-11 PET Based Radiomics Signature for Primary Prostate Cancer Characterisation Using Histopathology as Reference.** *Cancers*
Ghezzi, S., Bharathi, P. G., Duan, H., Mapelli, P., Sorgo, P., Davidzon, G. A., Bezzi, C., Chung, B. I., Samanes Gajate, A. M., Thong, A. E., Russo, T., Brembilla, G., Loening, et al
2024; 16 (23)
- **An Automated Electronic Health Record Score to Estimate Length of Stay and Readmission in Patients Undergoing Radical Cystectomy for Bladder Cancer.** *The Journal of urology*
Christoph Soerensen, S. J., Schmidt, B., Thomas, I., Montez-Rath, M. E., Thong, A. E., Prado, K., Shah, J. B., Skinner, E. C., Leppert, J. T.
2024: 101097JU0000000000004262
- **Diagnostic Accuracy of Fully Hybrid PET/MRI with [⁶⁸Ga] Ga-PSMA-11 and [⁶⁸Ga]Ga-RM2 for Primary Prostate Cancer Characterization: Results from a Prospective Phase II Clinical Trial**
Ghezzi, S., Mapelli, P., Gajate, A., Brembilla, G., Cucchiara, V., Bezzi, C., Neri, I., Freschi, M., Briganti, A., De Cobelli, F., Chiti, A., Scifo, P., Picchio, et al
SPRINGER.2024: S102
- **Bicentric Validation of a [⁶⁸Ga]Ga-PSMA-11 PET Based radiomics Signature for Primary Prostate Cancer Characterization**
Ghezzi, S., Bharathi, P., Duan, H., Mapelli, P., Davidzon, G., Bezzi, C., Chung, B., Gajate, A., Thong, A., Russo, T., Brembilla, G., Loening, A., Ghanouni, et al
SPRINGER.2024: S231
- **Artificial Intelligence-Driven Model for Prostate Cancer Staging with PSMA PET: A Study Integrating Radiomics Features and SVM Classifier**

Bharathi, P., Ghezzi, S., Duan, H., Mapelli, P., Davidzon, G., Bezzi, C., Chung, B., Gajate, A., Thong, A., Russo, T., Brembilla, G., Loening, A., Ghanouni, et al
SOC NUCLEAR MEDICINE INC.2024

- **ULTRASENSITIVE URINARY LIQUID BIOPSY ANALYSIS FOR BCG RESPONSE ASSESSMENT IN HIGH-RISK NON-MUSCLE INVASIVE BLADDER CANCER**
Shi, W. Y., Liu, K. J., Esfahani, M. S., Schroers-Martin, J. G., Nesselbush, M., Chen, S. B., Alig, S. K., Mullane, P., Mach, K. E., Trabaino, L., Lee, T. J., Yoo, I., Vinh La, et al
LIPPINCOTT WILLIAMS & WILKINS.2024: E1169
- **A Pilot Study of 68Ga-PSMA11 and 68Ga-RM2 PET/MRI for Biopsy Guidance in Patients with Suspected Prostate Cancer.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Thong, A., Kunder, C., Mari Aparici, C., Davidzon, G. A., Moradi, F., Sonn, G. A., Iagaru, A.
2022
- **A Pilot Study of Ga-68-PSMA11 and Ga-68-RM2 PET/MRI for Evaluation of Prostate Cancer Response to High Intensity Focused Ultrasound (HIFU) Therapy**
Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Davidzon, G. A., Aparici, C., Thong, A., Sonn, G. A., Kunder, C., Iagaru, A.
SPRINGER.2022: S497-S498
- **A Pilot Study of Ga-68-PSMA11 and 68Ga-RM2 PET/MRI for Biopsy Guidance in Patients with Suspected Prostate Cancer**
Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Thong, A., Sonn, G. A., Kunder, C., Davidzon, G. A., Aparici, C., Moradi, F., Iagaru, A.
SPRINGER.2022: S484
- **Correlation of 68Ga-RM2 PET with Post-Surgery Histopathology Findings in Patients with Newly Diagnosed Intermediate- or High-Risk Prostate Cancer.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Duan, H., Baratto, L., Fan, R. E., Soerensen, S. J., Liang, T., Chung, B. I., Thong, A. E., Gill, H., Kunder, C., Stoyanova, T., Rusu, M., Loening, A. M., Ghanouni, et al
2022
- **68Ga-PSMA-11 PET/MRI in patients with newly diagnosed intermediate or high-risk prostate adenocarcinoma: PET findings correlate with outcomes after definitive treatment.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Moradi, F., Duan, H., Song, H., Davidzon, G. A., Chung, B. I., Thong, A. E., Loening, A. M., Ghanouni, P., Sonn, G., Iagaru, A.
2022
- **Renal Morbidity Following Radical Cystectomy in Patients with Bladder Cancer.** *European urology open science*
Schmidt, B., Velaer, K. N., Thomas, I., Ganesan, C., Song, S., Pao, A. C., Thong, A. E., Liao, J. C., Chertow, G. M., Skinner, E. C., Leppert, J. T.
1800; 35: 29-36
- **A Pilot Study of Ga-68-PSMA11 and Ga-68-RM2 PET/MRI for Evaluation of Prostate Cancer Response to High Intensity Focused Ultrasound (HIFU) Therapy**
Duan, H., Ghanouni, P., Hatami, N., Davidzon, G. A., Aparici, C., Thong, A., Sonn, G. A., Iagaru, A.
SPRINGER.2021: S205-S206
- **A Pilot Study of 68Ga-PSMA11 and 68Ga-RM2 PET/MRI for Biopsy Guidance in Patients with Suspected Prostate Cancer**
Duan, H., Ferri, V., Ghanouni, P., Daniel, B., Hatami, N., Davidzon, G. A., Aparici, C., Thong, A., Sonn, G. A., Iagaru, A.
SPRINGER.2021: S204
- **The stanford prostate cancer calculator: Development and external validation of online nomograms incorporating PIRADS scores to predict clinically significant prostate cancer.** *Urologic oncology*
Wang, N. N., Zhou, S. R., Chen, L., Tibshirani, R., Fan, R. E., Ghanouni, P., Thong, A. E., To'o, K. J., Amirkhiz, K., Nix, J. W., Gordetsky, J. B., Sprenkle, P., Rais-Bahrami, et al
2021
- **A Pilot Study of 68Ga-PSMA11 PET/MRI and 68Ga-RM2 PET/MRI for Biopsy Guidance in Patients with Suspected Prostate Cancer**
Duan, H., Ferri, V., Ghanouni, P., Daniel, B., Hatami, N., Davidzon, G., Aparici, C., Moradi, F., Thong, A., Sonn, G., Iagaru, A.
SOC NUCLEAR MEDICINE INC.2021
- **Bupivacaine local anesthetic to decrease opioid requirements after radical cystectomy: Does formulation matter?** *Urologic oncology*
Schmidt, B. n., Bhambhani, H. P., Greenberg, D. R., Prado, K. n., Shafer, S. n., Thong, A. n., Gill, H. n., Skinner, E. n., Shah, J. B.
2020

- **Is A Systematic Transrectal Ultrasound-Guided Biopsy Required When a Targeted Magnetic Resonance Imaging-Ultrasound Fusion Biopsy is Performed?**
Bagshaw, H. P., Sonn, G. A., Fan, R. E., Ghanouni, P., Loening, A. M., Heidari, N., Von Eyben, R., Thong, A. E., Buyyounouski, M. K.
ELSEVIER SCIENCE INC.2019: E262
- **Prostate Magnetic Resonance Imaging Interpretation Varies Substantially Across Radiologists** *EUROPEAN UROLOGY FOCUS*
Sonn, G. A., Fan, R. E., Ghanouni, P., Wang, N. N., Brooks, J. D., Loening, A. M., Daniel, B. L., To'o, K. J., Thong, A. E., Leppert, J. T.
2019; 5 (4): 592–99
- **AUTOMATED DETECTION OF PROSTATE CANCER ON MULTIPARAMETRIC MRI USING DEEP NEURAL NETWORKS TRAINED ON SPATIAL COORDINATES AND PATHOLOGY OF BIOPSY CORES**
Chen, L., Bien, N., Fan, R., Cheong, R., Rajpurkar, P., Thong, A., Wang, N., Ahmadi, S., Rusu, M., Brooks, J., Ng, A., Sonn, G.
LIPPINCOTT WILLIAMS & WILKINS.2019: E1098
- **Concordance between patient-reported and physician-reported sexual function after radical prostatectomy.** *Urologic oncology*
Thong, A. E., Ying Poon, B., Lee, J. K., Vertosick, E., Sjoberg, D. D., Vickers, A. J., Ehdaie, B.
2017
- **Prostate Magnetic Resonance Imaging Interpretation Varies Substantially Across Radiologists.** *European urology focus*
Sonn, G. A., Fan, R. E., Ghanouni, P. n., Wang, N. N., Brooks, J. D., Loening, A. M., Daniel, B. L., To'o, K. J., Thong, A. E., Leppert, J. T.
2017
- **Accuracy of Self-reported Smoking Exposure Among Bladder Cancer Patients Undergoing Surveillance at a Tertiary Referral Center.** *European urology focus*
Thong, A. E., Petruzella, S., Orloff, I., Zabor, E. C., Ehdaie, B., Ostroff, J. S., Bochner, B. H., Furberg Barnes, H.
2016; 2 (4): 441-444
- **Comparative Effectiveness of Targeted Prostate Biopsy Using Magnetic Resonance Imaging Ultrasound Fusion Software and Visual Targeting: a Prospective Study.** *Journal of urology*
Lee, D. J., Recabal, P., Sjoberg, D. D., Thong, A., Lee, J. K., Eastham, J. A., Scardino, P. T., Vargas, H. A., Coleman, J., Ehdaie, B.
2016; 196 (3): 697-702
- **Unexpected Long-term Improvements in Urinary and Erectile Function in a Large Cohort of Men with Self-reported Outcomes Following Radical Prostatectomy** *EUROPEAN UROLOGY*
Lee, J. K., Assel, M., Thong, A. E., Sjoberg, D. D., Mulhall, J. P., Sandhu, J., Vickers, A. J., Ehdaie, B.
2015; 68 (5): 899-905
- **Development of a realistic in vivo bone metastasis model of human renal cell carcinoma** *CLINICAL & EXPERIMENTAL METASTASIS*
Valta, M. P., Zhao, H., Ingels, A., Thong, A. E., Nolley, R., Saar, M., Peehl, D. M.
2014; 31 (5): 573-584
- **Preclinical trial of a new dual mTOR inhibitor, MLN0128, using renal cell carcinoma tumorgrafts** *INTERNATIONAL JOURNAL OF CANCER*
Ingels, A., Zhao, H., Thong, A. E., Saar, M., Valta, M. P., Nolley, R., Santos, J., Peehl, D. M.
2014; 134 (10): 2322-2329
- **Relating prognosis in chromophobe renal cell carcinoma to the chromophobe tumor grading system.** *Korean journal of urology*
Weinzierl, E. P., Thong, A. E., McKenney, J. K., Jeon, S. H., Chung, B. I.
2014; 55 (4): 239-244
- **Tissue slice grafts of human renal cell carcinoma: An authentic preclinical model with high engraftment rate and metastatic potential** *UROLOGIC ONCOLOGY-SEMINARS AND ORIGINAL INVESTIGATIONS*
Thong, A. E., Zhao, H., Ingels, A., Valta, M. P., Nolley, R., Santos, J., Young, S. R., Peehl, D. M.
2014; 32 (1)
- **Tissue slice grafts of human renal cell carcinoma: an authentic preclinical model with high engraftment rate and metastatic potential.** *Urologic oncology*
Thong, A. E., Zhao, H., Ingels, A., Valta, M. P., Nolley, R., Santos, J., Young, S. R., Peehl, D. M.
2014; 32 (1): 43 e23-30
- **Estimating the risk of chronic kidney disease after nephrectomy** *CANADIAN JOURNAL OF UROLOGY*
Ngo, T. C., Hurley, M. P., Thong, A. E., Jeon, S. H., Leppert, J. T., Chung, B. I.

2013; 20 (6): 7035-7041

- **Nano-scale proteomic profiling to define diagnostic signatures and biomarkers of therapeutic activity in patients with RCC**
Leppert, J. T., Fan, A. C., Metzner, T., Liliental, J. E., Xu, L., Thong, A. E., Yost, C., Yaghi, A., Brooks, J. D., Harshman, L. C., Sabatti, C., Srinivas, S., Felsher, et al
WILEY-BLACKWELL.2013: 14
- **Stage I Testicular Seminoma: A SEER Analysis of Contemporary Adjuvant Radiotherapy Trends.** *journal of urology*
Thong, A. E., Lichtensztajn, D. Y., Almario, L., Ingels, A., Gomez, S. L., Gonzalgo, M. L.
2013; 190 (4): 1240-1244
- **Patient-derived tissue slice grafts accurately depict response of high-risk primary prostate cancer to androgen deprivation therapy** *JOURNAL OF TRANSLATIONAL MEDICINE*
Zhao, H., Thong, A., Nolley, R., Reese, S. W., Santos, J., Ingels, A., Peehl, D. M.
2013; 11
- **Patient-derived tissue slice grafts of high-risk primary prostate cancer: An authentic preclinical model for synthetic lethality-based therapy**
Zhao, H., Thong, A., Nolley, R., Reese, S., Santos, J., Ingels, A., Peehl, D.
AMER ASSOC CANCER RESEARCH.2013
- **PRE-CLINICAL TRIAL OF A NEW DUAL MTOR INHIBITOR: INK128 FOR RENAL CELL CARCINOMA**
Ingels, A., Thong, A., Saar, M., Valta, M., Nolley, R., Santos, J., Zhao, H., Peehl, D.
ELSEVIER SCIENCE INC.2013: E65
- **NANO-SCALE PROTEOMIC PROFILING TO DEFINE DIAGNOSTIC SIGNATURES AND BIOMARKERS OF THERAPEUTIC ACTIVITY IN RCC**
Leppert, J., Fan, A., Liliental, J., Xu, L., Thong, A., Yost, C., Yaghi, A., Metzner, T., Brooks, J., Harshman, L., Sabatti, C., Srinivas, S., Felsher, et al
ELSEVIER SCIENCE INC.2013: E246-E247
- **Nanoscale proteomic profiling to define diagnostic signatures and biomarkers of therapeutic activity in patients with RCC**
Fan, A. C., Leppert, J., Liliental, J. E., Xu, L., Thong, A. E., Yost, C., Yaghi, A., Brooks, J. D., Harshman, L., Sabatti, C., Srinivas, S., Felsher, D. W.
AMER SOC CLINICAL ONCOLOGY.2013
- **Mouse model of primary human renal cell carcinoma metastasis to bone**
Valta, M., Zhao, H., Ingels, A., Thong, A., Nolley, R., Saar, M., Peehl, D.
AMER ASSOC CANCER RESEARCH.2013
- **Comparison of Three Different Tools for Prediction of Seminal Vesicle Invasion at Radical Prostatectomy** *EUROPEAN UROLOGY*
Lughezzani, G., Zorn, K. C., Budaeus, L., Sun, M., Lee, D. I., Shalhav, A. L., Zagaya, G. P., Shikanov, S. A., Gofrit, O. N., Thong, A. E., Albala, D. M., Sun, L., Cronin, et al
2012; 62 (4): 590-596
- **Learning From Our Patients: Complications and the Future of Radical Cystectomy for Bladder Cancer** *JOURNAL OF UROLOGY*
Thong, A. E., Gonzalgo, M. L.
2012; 187 (6): 2018-2018
- **ESTIMATING THE RISK OF CHRONIC KIDNEY DISEASE AFTER NEPHRECTOMY**
Tin Ngo, Hurley, M., Thong, A., Jeon, S., Leppert, J., Chung, B.
ELSEVIER SCIENCE INC.2012: E584
- **CLINICOPATHOLOGIC FEATURES AND OUTCOMES OF A CHROMOPHOBE RENAL CELL CARCINOMA SERIES FROM A SINGLE INSTITUTION**
Thong, A., Tin Ngo, Weinzierl, E., Leppert, J., McKenney, J., Chung, B.
ELSEVIER SCIENCE INC.2012: E240
- **Evolution of Open Radical Retropubic Prostatectomy-How Have Open Surgeons Responded to the Challenge of Minimally Invasive Surgery?** *JOURNAL OF ENDOUROLOGY*
Acharya, S. S., Zorn, K. C., Shikanov, S., Thong, A., Zagaja, G. P., Shalhav, A. L., Steinberg, G. D.
2009; 23 (11): 1893-1897
- **Continued improvement of perioperative, pathological and continence outcomes during 700 robot-assisted radical prostatectomies** *CANADIAN JOURNAL OF UROLOGY*

- Zorn, K. C., Wille, M. A., Thong, A. E., Katz, M. H., Shikanov, S. A., Razmaria, A., Gofrit, O. N., Zagaja, G. P., Shalhav, A. L.
2009; 16 (4): 4742-4749
- **MULTI-INSTITUTIONAL EXTERNAL VALIDATION OF SEMINAL VESICLE INVASION NOMOGRAMS: HEAD-TO-HEAD COMPARISON OF GALLINA NOMOGRAM VERSUS 2007 PARTIN TABLES** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Zorn, K. C., Capitanio, U., Jeldres, C., Arjane, P., Perrotte, P., Shariat, S. F., Lee, D. I., Shalhav, A. L., Zagaja, G. P., Shikanov, S. A., Gofrit, O. N., Thong, A. E., Albala, et al
2009; 73 (5): 1461-1467
 - **Robotic Radical Prostatectomy in Overweight and Obese Patients: Oncological and Validated-Functional Outcomes** *UROLOGY*
Wiltz, A. L., Shikanov, S., Eggener, S. E., Katz, M. H., Thong, A. E., Steinberg, G. D., Shalhav, A. L., Zagaja, G. P., Zorn, K. C.
2009; 73 (2): 316-322
 - **A Single Microfocus (5% or Less) of Gleason 6 Prostate Cancer at Biopsy-Can We Predict Adverse Pathological Outcomes?** *JOURNAL OF UROLOGY*
Thong, A. E., Shikanov, S., Katz, M. H., Gofrit, O. N., Eggener, S., Zagaja, G. P., Shalhav, A. L., Zorn, K. C.
2008; 180 (6): 2436-2440
 - **Robotic laparoscopic radical prostatectomy for biopsy gleason 8 to 10: Prediction of favorable pathologic outcome with preoperative parameters** *JOURNAL OF ENDOUROLOGY*
Shikanov, S. A., Thong, A., Gofrit, O. N., Zagaja, G. P., Steinberg, G. D., Shalhav, A. L., Zorn, K. C.
2008; 22 (7): 1477-1481
 - **The cemented all-polyethylene acetabular cup: Factors affecting survival with emphasis on the integrated polyethylene spacer - An analysis of the effect of cement spacers, cement mantle thickness, and acetabular angle on the survival of total hip arthroplasty** *JOURNAL OF ARTHROPLASTY*
Faris, P. M., Ritter, M. A., Keating, E. M., Thong, A. E., Davis, K. E., Meding, J. B.
2006; 21 (2): 191-198
 - **The effect of femoral notching during total knee arthroplasty on the prevalence of postoperative femoral fractures and on clinical outcome.** *journal of bone and joint surgery. American volume*
Ritter, M. A., Thong, A. E., Keating, E. M., Faris, P. M., Meding, J. B., Berend, M. E., Pierson, J. L., Davis, K. E.
2005; 87 (11): 2411-2414
 - **Simultaneous bilateral versus unilateral total hip arthroplasty - An outcomes analysis** *JOURNAL OF ARTHROPLASTY*
Berend, M. E., Ritter, M. A., Harty, L. D., Davis, K. E., Keating, E. M., Meding, J. B., Thong, A. E.
2005; 20 (4): 421-426
 - **The role of cemented sockets in 2004 - Is there one?** *JOURNAL OF ARTHROPLASTY*
Ritter, M. A., Thong, A. E.
2004; 19 (4): 92-94
 - **Long-term deterioration of joint evaluation scores.** *journal of bone and joint surgery. British volume*
Ritter, M. A., Thong, A. E., Davis, K. E., Berend, M. E., Meding, J. B., Faris, P. M.
2004; 86 (3): 438-442
 - **Intra-operative findings in varus osteoarthritis of the knee. An analysis of pre-operative alignment in potential candidates for unicompartmental arthroplasty.** *journal of bone and joint surgery. British volume*
Ritter, M. A., Faris, P. M., Thong, A. E., Davis, K. E., Meding, J. B., Berend, M. E.
2004; 86 (1): 43-47
 - **Total joint arthroplasty in the extremely elderly - Hip and knee arthroplasty after entering the 89th year of life** *JOURNAL OF ARTHROPLASTY*
Berend, M. E., Thong, A. E., Faris, G. W., Newbern, G., Pierson, J. L., Ritter, M. A.
2003; 18 (7): 817-821