



Rustin Massoudi, MD

Clinical Assistant Professor, Urology

CLINICAL OFFICE (PRIMARY)

- **Urology Clinic in Emeryville**

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Bio

BIO

Dr. Massoudi is a board certified urologist specializing in general urology and urologic oncology. He is a clinical assistant professor of urology at Stanford University School of Medicine. Dr. Massoudi has expertise in treating prostate cancer, kidney cancer, kidney stones, and enlarged prostate. He also cares for patients with bladder cancer, testicular cancer, urinary retention, and a wide range of other urologic conditions.

His experience encompasses the complete spectrum of treatment options. This includes advanced, minimally invasive techniques like endoscopy and laparoscopy, as well as robotic surgery, which can enable smaller incisions and potentially shorter recovery times. For cases where a minimally invasive approach isn't feasible, he performs open surgery.

Dr. Massoudi partners with each patient and family to customize a treatment plan that fits their needs. He welcomes patients at all stages in their journey—from early to more advanced symptoms—and is dedicated to helping them manage their urologic health long-term. He values the rewards of helping patients through difficult times as they cope with urologic disorders.

Dr. Massoudi was drawn to urology for its unique combination of medical and surgical care, including the opportunity to use the most innovative techniques and technology. He enjoys establishing a rapport and staying in close communication with referring physicians. To ensure all of his patients receive comprehensive care, he collaborates with Stanford colleagues from endocrinology, nephrology, medical oncology, radiation oncology, and other specialties.

Building on his passion for biological sciences and bioengineering, Dr. Massoudi's studies have included translational research into the use of proteomics to target proteins on the metabolic pathway of kidney cancer development. In partnership with the Stanford Kidney Cancer Research Program, he has also explored the role of the molecule IQGAP in kidney cancer cell migration, proliferation, differentiation, polarity, and adhesion.

While working at the Veterans Administration in Palo Alto, Dr. Massoudi collaborated on an investigation into the utility of nuclear imaging methods for identifying and staging bladder cancer. He also collaborated on research that used novel proteomic technology to understand the signaling mechanisms of renal cell carcinoma; he later performed in vitro experiments on novel biomarkers and therapeutic agents for treating it.

Dr. Massoudi has authored numerous articles on renal disorders, innovative treatment techniques and technologies, and related topics. His work has been featured in Cell, the Journal of Endourology, European Urology Oncology, Canadian Journal of Urology, American Journal of Medical Genetics, and others. He has made presentations at conferences including the American Urological Association, Society of Urology Oncology, and World Congress of Endourology.

Dr. Massoudi has received multiple honors for teaching, scholarship, and research including a Stanford Urology Teaching Award for Outstanding Mentorship of Co-Residents. In addition, he won a Gold Humanism and Excellence in Teaching Award from Stanford University School of Medicine. At the 43rd Annual Northern California Urological Society Conference, he won top honors for his presentation on IQGAP.

CLINICAL FOCUS

- Urology
- Robotic surgery
- Prostate cancer
- Kidney cancer
- Bladder cancer
- Enlarged prostate
- Kidney stones

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Urology

ADMINISTRATIVE APPOINTMENTS

- Member, Stanford School of Medicine Faculty Senate, (2020- present)
- OR Committee, Stanford ValleyCare, (2020- present)
- Medical Staff Quality Committee, Stanford ValleyCare, (2021- present)

HONORS AND AWARDS

- Stanford Urology Teaching Award for Outstanding Mentorship of Co-Residents, Stanford Department of Urology (June 2019)
- "Mind the Gap: Role of IQGAP1 in Kidney Cancer", 1st place winner at 43rd Northern California Urological Society Conference (April 2017)
- Gold Humanism and Excellence in Teaching Award, Stanford School of Medicine (May 2015)
- Merck Award for Outstanding Academic Accomplishments, UC San Diego School of Medicine (June 2013)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Urological Association (2015 - present)
- Member, American Medical Association (2010 - present)

PROFESSIONAL EDUCATION

- Residency: Stanford University Dept of General Surgery (2015) CA
- Board Certification: Urology, American Board of Urology (2021)
- Medical Education: University of California San Diego School of Medicine (2013) CA

- Residency: Stanford University Dept of Urology (2019) CA
- Biodesign Innovation Course, Stanford Biodesign Institute (2017)
- MD, UC San Diego School of Medicine , Medicine (2013)
- BS, UC Berkeley , Bioengineering (2009)

COMMUNITY AND INTERNATIONAL WORK

- PA Student Elective in Urology

LINKS

- LinkedIn: <https://www.linkedin.com/in/rustin-massoudi/>
- Kidney Cancer Research Program: <http://kidneycancer.stanford.edu/>

Publications

PUBLICATIONS

- **Giant renal angiomyolipoma in a solitary kidney** *CANADIAN JOURNAL OF UROLOGY*
Sohlberg, E., Sun, A., Massoudi, R., Prado, K., Skinner, E.
2018; 25 (6): 9614–16
- **Multiregion Quantification of Extracellular Signal-regulated Kinase Activity in Renal Cell Carcinoma.** *European urology oncology*
Hoerner, C. R., Massoudi, R., Metzner, T. J., Stell, L., O'Rourke, J. J., Kong, C. S., Liliental, J. E., Brooks, J. D., Sabatti, C., Leppert, J. T., Fan, A. C.
2018
- **Preclinical Testing of a Combination Stone Basket and Ureteral Balloon to Extract Ureteral Stones** *JOURNAL OF ENDOUROLOGY*
Massoudi, R., Metzner, T. J., Bonneau, B., Ngo, T. C., Shinghal, R., Leppert, J. T.
2018; 32 (2): 96–99
- **INTRA-TUMOR HETEROGENEITY IN RENAL CELL CARCINOMA: IMPLICATIONS FOR PROTEOMIC ANALYSIS OF RENAL MASS BIOPSIES**
Massoudi, R., Hoerner, C., Metzner, T., O'Rourke, J., Curtis, R., Stell, L., Sabatti, C., Brooks, J., Fan, A., Leppert, J.
ELSEVIER SCIENCE INC.2017: E496–E497
- **Recovery of a Missile Embolus From the Right Ventricle.** *Annals of thoracic surgery*
Marshall, C. D., Ma, M. R., Park, J., Sheckter, C. C., Massoudi, R. A., Ligman, C. M., Jou, R. M., Ogden, W. D.
2017; 103 (1): e69-e71
- **Male Infertility: a Harbinger of Future Health** *Current Sex Health Reports*
Dallas, K., Massoudi, R., Eisenberg, M.
2016; 8 (3)
- **What is the Incidence of Kidney Stones after Chemotherapy in Patients with Lymphoproliferative or Myeloproliferative Disorders?** *INTERNATIONAL BRAZ J UROL*
Mirheydar, H. S., Banapour, P., Massoudi, R., Palazzi, K. L., Jabaji, R., Reid, E. G., Millard, F. E., Kane, C. J., Sur, R. L.
2014; 40 (6): 772-780
- **Exome Capture Reveals ZNF423 and CEP164 Mutations, Linking Renal Ciliopathies to DNA Damage Response Signaling** *CELL*
Chaki, M., Airik, R., Ghosh, A. K., Giles, R. H., Chen, R., Slaats, G. G., Wang, H., Hurd, T. W., Zhou, W., Cluckey, A., Gee, H. Y., Ramaswami, G., Hong, et al
2012; 150 (3): 533-548
- **Co-occurrence of distinct ciliopathy diseases in single families suggests genetic modifiers** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
Zaki, M. S., Sattar, S., Massoudi, R. A., Gleeson, J. G.
2011; 155A (12): 3042-3049
- **Nonviral gene vector formation in monodispersed picolitre incubator for consistent gene delivery** *LAB ON A CHIP*
Hsieh, A. T., Hori, N., Massoudi, R., Pan, P. J., Sasaki, H., Lin, Y. A., Lee, A. P.
2009; 9 (18): 2638-2643