



Geoffrey Sonn

Associate Professor of Urology and, by courtesy, of Radiology (Body MRI)

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Uro-Oncology Clinic**

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Bio

BIO

Geoffrey Sonn, MD is a board certified urologist who specializes in treating patients with prostate and kidney cancer. He has a particular interest in cancer imaging, MRI-Ultrasound fusion targeted prostate biopsy, prostate cancer focal therapy, and robotic surgery for prostate and kidney cancer. He was the Stanford principal investigator of a major clinical trial using MRI-guided focused ultrasound to treat prostate cancer. The goal of this trial was to treat prostate cancer with fewer side effects than surgery or radiation.

Dr. Sonn was born in Washington State and lived there until leaving for college at Georgetown in Washington DC. After graduating magna cum laude at Georgetown he returned to the West Coast for medical school at UCLA. Following medical school, Dr. Sonn completed a 6-year urology residency at Stanford where he developed particular interests in the clinical care of patients with urologic cancers and research in cancer imaging. He then spent two years at UCLA as a urologic oncology fellow where he devoted all his time to gaining additional skills and experience in clinical care and research in urologic malignancies. Since finishing his fellowship, Dr. Sonn has been at Stanford where he applies the skills he gained in residency and fellowship to provide high-quality clinical care to patients with urologic cancers. Dr. Sonn also continues to work to develop new methods to better diagnose and treat urologic cancers through research. His primary research focus is in prostate cancer focal therapy and developing artificial intelligence methods to improve prostate cancer detection on MRI and ultrasound.

CLINICAL FOCUS

- Cancer > Urologic Oncology
- Prostate Cancer
- Kidney Cancer
- Ablation Techniques
- Biopsy
- Testicular Cancer
- Urology
- Robotics

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Urology
- Associate Professor - University Medical Line (By courtesy), Radiology
- Member, Bio-X
- Member, Stanford Cancer Institute

HONORS AND AWARDS

- First Place in Prostate Cancer Detection & Screening Poster Session, American Urological Association (2013)
- Research Award for Fluorescent Imaged Guided Surgery in Prostate Cancer, Longmire Surgical Society at UCLA (2013)
- First Place in Localized Kidney Cancer Poster Session, American Urological Association (2010)
- Third Place Resident Essay Contest in Clinical Research, American Urological Association (2009)
- CaPSURE Scholars Program, UCSF Department of Urology (2008)
- First Place Resident essay contest, Western Section AUA (2008)
- Richard K. Lo Resident Publication Award, Stanford Urology (2010)
- Mahoney Medal (Outstanding pre med with a liberal arts major), Georgetown University (2001)

PROFESSIONAL EDUCATION

- Residency: Stanford University Medical Center (2011) CA
- Residency: Stanford University Medical Center (2007) CA
- Medical Education: UCLA David Geffen School Of Medicine Registrar (2005) CA
- Fellowship: UCLA David Geffen School Of Medicine Registrar (2013) CA
- Board Certification: Urology, American Board of Urology (2015)

LINKS

- My Lab Website: <https://med.stanford.edu/ucil.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My primary interest is in improving prostate cancer diagnosis and treatment through MRI and image-targeted prostate biopsy. In collaboration with radiologists at Stanford, we are working to define the optimal role of MRI in prostate cancer. We hope to improve cancer imaging to the point that some men with elevated PSA may safely avoid prostate biopsy. For those who need biopsy, we are evaluating novel MRI-US fusion targeted biopsy, a technique that greatly improves upon the conventional biopsy method. More accurate prostate biopsy enables better decision making about treatment options such as deciding between active surveillance and surgery.

Moving beyond biopsy, I am interested in the use of imaging to select patients who are candidates for prostate cancer focal therapy. Focal therapy involves ablation of prostate cancers under image guidance without destruction or removal of the normal areas of the prostate and with less damage to important surrounding structures that are important for erectile function and urinary continence.

I am also interested in developing novel molecular imaging techniques such as near infrared fluorescence imaging to improve surgery for prostate and kidney cancer.

CLINICAL TRIALS

- EDRN Prostate MRI Biomarker Study, Recruiting

- Predicting Location and Extent of Prostate Cancer Using Micro-Ultrasound Imaging, Recruiting
- Standard Systemic Therapy With or Without Definitive Treatment in Treating Participants With Metastatic Prostate Cancer, Recruiting
- 68Ga PSMA 11 PET/MRI and 68Ga RM2 PET/MRI for Biopsy Guidance in Patients With Suspected Prostate Cancer, Not Recruiting
- 68Ga-PSMA PET/CT or PET/MRI in Evaluating Patients With Recurrent Prostate Cancer, Not Recruiting
- A Pilot Trial Using BR55 Ultrasound Contrast Agent in the Assessment of Prostate Cancer, Not Recruiting
- Continued Access of Focal MR-Guided Focused Ultrasound for Localized Intermediate Risk Prostate Lesions, Not Recruiting
- Focal MR-Guided Focused Ultrasound Treatment of Localized Intermediate Risk Prostate Lesions, Not Recruiting
- Photoacoustic Imaging (PAI) of the Prostate: A Clinical Feasibility Study, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Hassan Jahanandish, Sara Saunders

Postdoctoral Research Mentor

Hassan Jahanandish

Publications

PUBLICATIONS

- **Improving Automated Prostate Cancer Detection and Classification Accuracy with Multi-scale Cancer Information**
Li, C., Bhattacharya, I., Vesal, S., Saunders, S., Soerensen, S., Fan, R. E., Sonn, G. A., Rusu, M., Cao, Xu, Rekik, Cui, Z., Ouyang
SPRINGER INTERNATIONAL PUBLISHING AG.2024: 341-350
- **Prediction and Mapping of Intraprostatic Tumor Extent with Artificial Intelligence.** *European urology open science*
Priester, A., Fan, R. E., Shubert, J., Rusu, M., Vesal, S., Shao, W., Khandwala, Y. S., Marks, L. S., Natarajan, S., Sonn, G. A.
2023; 54: 20-27
- **Distinguishing Renal Cell Carcinoma From Normal Kidney Tissue Using Mass Spectrometry Imaging Combined With Machine Learning.** *JCO precision oncology*
Shankar, V., Vijayalakshmi, K., Nolley, R., Sonn, G. A., Kao, C. S., Zhao, H., Wen, R., Eberlin, L. S., Tibshirani, R., Zare, R. N., Brooks, J. D.
2023; 7: e2200668
- **Reply to Carmen Gravina, Riccardo Lombardo, and Cosimo De Nunzio's Letter to the Editor re: Yash S. Khandwala, Simon John Christoph Soerensen, Shravan Morisetty, et al. The Association of Tissue Change and Treatment Success During High-intensity Focused Ultrasound Focal Therapy for Prostate Cancer.** *Eur Urol Focus*. In press. <https://doi.org/10.1016/j.euf.2022.10.010>. *European urology focus*
Sonn, G., Khandwala, Y.
2023
- **IMPROVING PROSTATE CANCER DETECTION ON MRI WITH DEEP LEARNING, CLINICAL VARIABLES, AND RADIOMICS**
Saunders, S., Li, X., Vesal, S., Bhattacharya, I., Soerensen, S. C., Fan, R. E., Rusu, M., Sonn, G. A.
LIPPINCOTT WILLIAMS & WILKINS.2023: E665
- **DETECTION OF CLINICALLY SIGNIFICANT PROSTATE CANCER ON MRI: A COMPARISON OF AN ARTIFICIAL INTELLIGENCE MODEL VERSUS RADIOLOGISTS**
Soerensen, S., Fan, R. E., Bhattacharya, I., Lim, D. S., Ahmadi, S., Li, X., Vesal, S., Rusu, M., Sonn, G. A.
LIPPINCOTT WILLIAMS & WILKINS.2023: E103
- **Learn2Reg: Comprehensive Multi-Task Medical Image Registration Challenge, Dataset and Evaluation in the Era of Deep Learning** *IEEE TRANSACTIONS ON MEDICAL IMAGING*
Hering, A., Hansen, L., Mok, T. W., Chung, A. S., Siebert, H., Hager, S., Lange, A., Kuckertz, S., Heldmann, S., Shao, W., Vesal, S., Rusu, M., Sonn, et al
2023; 42 (3): 697-712

- **MIC-CUSP: Multimodal Image Correlations for Ultrasound-Based Prostate Cancer Detection**
Bhattacharya, I., Vesal, S., Jahanandish, H., Choi, M., Zhou, S., Kornberg, Z., Sommer, E., Fan, R., Brooks, J., Sonn, G., Rusu, M., Kainz, B., Noble, et al
SPRINGER INTERNATIONAL PUBLISHING AG.2023: 121-131
- **NCCN Guidelines Insights: Prostate Cancer Early Detection, Version 1.2023.** *Journal of the National Comprehensive Cancer Network : JNCCN*
Moses, K. A., Sprenkle, P. C., Bahler, C., Box, G., Carlsson, S. V., Catalona, W. J., Dahl, D. M., Dall'Era, M., Davis, J. W., Drake, B. F., Epstein, J. I., Etzioni, R. B., Farrington, et al
2023; 21 (3): 236-246
- **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
- **The Association of Tissue Change and Treatment Success During High-intensity Focused Ultrasound Focal Therapy for Prostate Cancer.** *European urology focus*
Khandwala, Y. S., Soerensen, S. J., Morisetty, S., Ghanouni, P., Fan, R. E., Vesal, S., Rusu, M., Sonn, G. A.
2022
- **A Pilot Study of 68Ga-PSMA11 and 68Ga-RM2 PET/MRI for Evaluation of Prostate Cancer Response to High Intensity Focused Ultrasound (HIFU) Therapy.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Davidzon, G. A., Mari Aparici, C., Kunder, C., Sonn, G., Iagaru, A.
2022
- **A review of artificial intelligence in prostate cancer detection on imaging.** *Therapeutic advances in urology*
Bhattacharya, I., Khandwala, Y. S., Vesal, S., Shao, W., Yang, Q., Soerensen, S. J., Fan, R. E., Ghanouni, P., Kunder, C. A., Brooks, J. D., Hu, Y., Rusu, M., Sonn, et al
2022; 14: 17562872221128791
- **Tempering optimism for MRI-guided focused ultrasound therapy - Authors' reply.** *The Lancet. Oncology*
Ehdaie, B., Sonn, G. A., Ghanouni, P.
2022; 23 (10): e439
- **Tempering optimism for MRI-guided focused ultrasound therapy Reply** *LANCET ONCOLOGY*
Ehdaie, B., Sonn, G. A., Ghanouni, P.
2022; 23 (10): E439
- **Domain generalization for prostate segmentation in transrectal ultrasound images: A multi-center study.** *Medical image analysis*
Vesal, S., Gayo, I., Bhattacharya, I., Natarajan, S., Marks, L. S., Barratt, D. C., Fan, R. E., Hu, Y., Sonn, G. A., Rusu, M.
2022; 82: 102620
- **Evaluation of post-ablation mpMRI as a predictor of residual prostate cancer after focal high intensity focused ultrasound (HIFU) ablation.** *Urologic oncology*
Khandwala, Y. S., Morisetty, S., Ghanouni, P., Fan, R. E., Soerensen, S. J., Rusu, M., Sonn, G. 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
- **Multi-institutional analysis of clinical and imaging risk factors for detecting clinically significant prostate cancer in men with PI-RADS 3 lesions.** *Cancer*
Fang, A. M., Shumaker, L. A., Martin, K. D., Jackson, J. C., Fan, R. E., Khajir, G., Patel, H. D., Soodana-Prakash, N., Vourganti, S., Filson, C. P., Sonn, G. A., Sprenkle, P. C., Gupta, et al
2022
- **MRI-guided focused ultrasound focal therapy for patients with intermediate-risk prostate cancer: a phase 2b, multicentre study.** *The Lancet. Oncology*

- Ehdaie, B., Tempany, C. M., Holland, F., Sjoberg, D. D., Kibel, A. S., Trinh, Q., Durack, J. C., Akin, O., Vickers, A. J., Scardino, P. T., Sperling, D., Wong, J. Y., Yuh, et al
2022
- **Computational Detection of Extraprostatic Extension of Prostate Cancer on Multiparametric MRI Using Deep Learning.** *Cancers*
Moroianu, S. L., Bhattacharya, I., Seetharaman, A., Shao, W., Kunder, C. A., Sharma, A., Ghanouni, P., Fan, R. E., Sonn, G. A., Rusu, M.
2022; 14 (12)
 - **Bridging the gap between prostate radiology and pathology through machine learning.** *Medical physics*
Bhattacharya, I., Lim, D. S., Aung, H. L., Liu, X., Seetharaman, A., Kunder, C. A., Shao, W., Soerensen, S. J., Fan, R. E., Ghanouni, P., To'o, K. J., Brooks, J. D., Sonn, et al
2022
 - **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., Jagaru, A.
2022
 - **MULTI-INSTITUTIONAL ANALYSIS OF CLINICAL AND IMAGING RISK FACTORS FOR DETECTING CLINICALLY SIGNIFICANT PROSTATE CANCER IN MEN WITH PI-RADS 3 LESIONS**
Fang, A., Shumaker, L., Martin, K., Onah, O., Jackson, J., Khajir, G., Fan, R., Soodana-Prakash, N., Patel, H., Vourganti, S., Filson, C., Sprenkle, P., Sonn, et al
LIPPINCOTT WILLIAMS & WILKINS.2022: E959
 - **Image quality assessment for machine learning tasks using meta-reinforcement learning.** *Medical image analysis*
Saeed, S. U., Fu, Y., Stavrinides, V., Baum, Z. M., Yang, Q., Rusu, M., Fan, R. E., Sonn, G. A., Noble, J. A., Barratt, D. C., Hu, Y.
2022; 78: 102427
 - **The Learn2Reg 2021 MICCAI Grand Challenge (PIMed Team)**
Shao, W., Vesal, S., Lim, D., Li, C., Golestani, N., Alsinan, A., Fan, R., Sonn, G., Rusu, M., Aubreville, M., Zimmerer, D., Heinrich, M.
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 168-173
 - **Integrating zonal priors and pathomic MRI biomarkers for improved aggressive prostate cancer detection on MRI**
Bhattacharya, I., Shao, W., Soerensen, S. C., Fan, R. E., Wang, J. B., Kunder, C., Ghanouni, P., Sonn, G. A., Rusu, M., Drukker, K., Iftekharuddin, K. M.
SPIE-INT SOC OPTICAL ENGINEERING.2022
 - **Collaborative Quantization Embeddings for Intra-subject Prostate MR Image Registration**
Shen, Z., Yang, Q., Shen, Y., Giganti, F., Stavrinides, V., Fan, R., Moore, C., Rusu, M., Sonn, G., Torr, P., Barratt, D., Hu, Y., Wang, et al
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 237-247
 - **EXTERNAL VALIDATION OF AN ARTIFICIAL INTELLIGENCE ALGORITHM FOR PROSTATE CANCER GLEASON GRADING AND TUMOR QUANTIFICATION**
Schmidt, B., Bhambhani, H. P., Fan, R. E., Kunder, C., Kao, C., Higgins, J. P., Rusu, M., Sonn, G. A.
LIPPINCOTT WILLIAMS & WILKINS.2021: E1004
 - **Deep Learning Improves Speed and Accuracy of Prostate Gland Segmentations on Magnetic Resonance Imaging for Targeted Biopsy** *JOURNAL OF UROLOGY*
Soerensen, S., Fan, R. E., Seetharaman, A., Chen, L., Shao, W., Bhattacharya, I., Kim, Y., Sood, R., Borre, M., Chung, B., To'o, K. J., Rusu, M., Sonn, et al
2021; 206 (3): 605-612
 - **DETAILED ANALYSIS OF MRI CONCORDANCE WITH PROSTATECTOMY HISTOPATHOLOGY USING DEEP LEARNING-BASED DIGITAL PATHOLOGY**
Hockman, L., Fan, R., Schmidt, B., Bhattacharya, I., Rusu, M., Sonn, G.
LIPPINCOTT WILLIAMS & WILKINS.2021: E813-E814
 - **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
- **Consumption of cruciferous vegetables and the risk of bladder cancer in a prospective US cohort: data from the NIH-AARP diet and health study.** *American journal of clinical and experimental urology*
Nguyen, T. P., Zhang, C. A., Sonn, G. A., Eisenberg, M. L., Brooks, J. D.
2021; 9 (3): 229-238
 - **Mapping PSA density to outcome of MRI-based active surveillance for prostate cancer through joint longitudinal-survival models.** *Prostate cancer and prostatic diseases*
Stavriniades, V., Papageorgiou, G., Danks, D., Giganti, F., Pashayan, N., Trock, B., Freeman, A., Hu, Y., Whitaker, H., Allen, C., Kirkham, A., Punwani, S., Sonn, et al
2021
 - **A Pilot Study of 68Ga-PSMA11 PET/MRI and 68GaRM2 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
 - **Deep Learning Improves Speed and Accuracy of Prostate Gland Segmentations on MRI for Targeted Biopsy.** *The Journal of urology*
Soerensen, S. J., Fan, R. E., Seetharaman, A., Chen, L., Shao, W., Bhattacharya, I., Kim, Y., Sood, R., Borre, M., Chung, B. I., To'o, K. J., Rusu, M., Sonn, et al
2021: 101097JU00000000000001783
 - **Automated Detection of Aggressive and Indolent Prostate Cancer on Magnetic Resonance Imaging.** *Medical physics*
Seetharaman, A., Bhattacharya, I., Chen, L. C., Kunder, C. A., Shao, W., Soerensen, S. J., Wang, J. B., Teslovich, N. C., Fan, R. E., Ghanouni, P., Brooks, J. D., To'o, K. J., Sonn, et al
2021
 - **MR method for measuring microscopic histologic soft tissue textures.** *Magnetic resonance in medicine*
Sonn, G. A., Fan, R. E., Kunder, C. A., Gold, G. E., James, K. M., Parker, I. D., Carlson, J. M., Cannizzaro, S. M., James, T. W.
2021
 - **3D Registration of pre-surgical prostate MRI and histopathology images via super-resolution volume reconstruction.** *Medical image analysis*
Sood, R. R., Shao, W. n., Kunder, C. n., Teslovich, N. C., Wang, J. B., Soerensen, S. J., Madhuripan, N. n., Jawahar, A. n., Brooks, J. D., Ghanouni, P. n., Fan, R. E., Sonn, G. A., Rusu, et al
2021; 69: 101957
 - **ProGNet: Prostate Gland Segmentation on MRI with Deep Learning**
Soerensen, S., Fan, R., Seetharaman, A., Chen, L., Shao, W., Bhattacharya, I., Borre, M., Chung, B., To'o, K., Sonn, G., Rusu, M., Isgum, Landman, B. A.
SPIE-INT SOC OPTICAL ENGINEERING.2021
 - **Selective identification and localization of indolent and aggressive prostate cancers via CorrSigNIA: an MRI-pathology correlation and deep learning framework.** *Medical image analysis*
Bhattacharya, I., Seetharaman, A., Kunder, C., Shao, W., Chen, L. C., Soerensen, S. J., Wang, J. B., Teslovich, N. C., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A., Rusu, et al
2021; 75: 102288
 - **Weakly Supervised Registration of Prostate MRI and Histopathology Images**
Shao, W., Bhattacharya, I., Soerensen, S. C., Kunder, C. A., Wang, J. B., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A., Rusu, M., DeBruijne, M., Cattin, P. C., Cotin, et al
SPRINGER INTERNATIONAL PUBLISHING AG.2021: 98-107
 - **UTILITY OF PSA DENSITY IN PREDICTING UPGRADED GLEASON SCORE IN MEN ON ACTIVE SURVEILLANCE WITH NEGATIVE MRI.** *Urology*
Press, B. H., Khajir, G., Ghabili, K., Leung, C., Fan, R. E., Wang, N. N., Leapman, M. S., Sonn, G. A., Sprenkle, P. C.
2021
 - **Adaptable Image Quality Assessment Using Meta-Reinforcement Learning of Task Amenability**
Saeed, S. U., Fu, Y., Stavriniades, V., Baum, Z. C., Yang, Q., Rusu, M., Fan, R. E., Sonn, G. A., Noble, J., Barratt, D. C., Hu, Y., Noble, J. A., Aylward, et al
SPRINGER INTERNATIONAL PUBLISHING AG.2021: 191-201

- **Consumption of cruciferous vegetables and the risk of bladder cancer in a prospective US cohort: data from the NIH-AARP diet and health study** *AMERICAN JOURNAL OF CLINICAL AND EXPERIMENTAL UROLOGY*
Nguyen, T. P., Zhang, C. A., Sonn, G. A., Eisenberg, M. L., Brooks, J. D.
2021; 9 (3): 229-238
- **Superiorized Photo-Acoustic Non-NEgative Reconstruction (SPANNER) for Clinical Photoacoustic Imaging.** *IEEE transactions on medical imaging*
Steinberg, I. n., Kim, J. n., Schneider, M. K., Hyun, D. n., Zlitni, A. n., Hooper, S. M., Klap, T. n., Sonn, G. A., Dahl, J. J., Kim, C. n., Gambhir, S. S.
2021; PP
- **Intensity Normalization of Prostate MRIs using Conditional Generative Adversarial Networks for Cancer Detection**
DeSilvio, T., Moroiianu, S., Bhattacharya, I., Seetharaman, A., Sonn, G., Rusu, M., Mazurowski, M. A., Drukker, K.
SPIE-INT SOC OPTICAL ENGINEERING.2021
- **Clinically significant prostate cancer detection on MRI with self-supervised learning using image context restoration**
Bolous, A., Seetharaman, A., Bhattacharya, I., Fan, R. E., Soerensen, S., Chen, L., Ghanouni, P., Sonn, G. A., Rusu, M., Mazurowski, M. A., Drukker, K.
SPIE-INT SOC OPTICAL ENGINEERING.2021
- **Clinical -Prostate cancer Multicenter analysis of clinical and MRI characteristics associated with detecting clinically significant prostate cancer in PI-RADS (v2.0) category 3 lesions** *UROLOGIC ONCOLOGY-SEMINARS AND ORIGINAL INVESTIGATIONS*
Al Awamlh, B., Marks, L. S., Sonn, G. A., Natarajan, S., Fan, R. E., Gross, M. D., Mauer, E., Banerjee, S., Hectors, S., Carlsson, S., Margolis, D. J., Hu, J. C.
2020; 38 (7)
- **Registration of pre-surgical MRI and histopathology images from radical prostatectomy via RAPSODI.** *Medical physics*
Rusu, M., Shao, W., Kunder, C. A., Wang, J. B., Soerensen, S. J., Teslovich, N. C., Sood, R. R., Chen, L. C., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A.
2020
- **Ga-68-PSMA-11 PET/MR Imaging before prostatectomy: correlation with surgical pathology and two-year follow up**
Moradi, F., Baratto, L., Duan, H., Hatami, N., Davidzon, G., Sonn, G., Iagaru, A.
SOC NUCLEAR MEDICINE INC.2020
- **ProsRegNet: A deep learning framework for registration of MRI and histopathology images of the prostate.** *Medical image analysis*
Shao, W. n., Banh, L. n., Kunder, C. A., Fan, R. E., Soerensen, S. J., Wang, J. B., Teslovich, N. C., Madhuripan, N. n., Jawahar, A. n., Ghanouni, P. n., Brooks, J. D., Sonn, G. A., Rusu, et al
2020; 68: 101919
- **Multicenter analysis of clinical and MRI characteristics associated with detecting clinically significant prostate cancer in PI-RADS (v2.0) category 3 lesions.** *Urologic oncology*
Al Hussein Al Awamlh, B. n., Marks, L. S., Sonn, G. A., Natarajan, S. n., Fan, R. E., Gross, M. D., Mauer, E. n., Banerjee, S. n., Hectors, S. n., Carlsson, S. n., Margolis, D. J., Hu, J. C.
2020
- **Identification of Diagnostic Metabolic Signatures in Clear Cell Renal Cell Carcinoma Using Mass Spectrometry Imaging.** *International journal of cancer*
Vijayalakshmi, K., Shankar, V., Bain, R. M., Nolley, R., Sonn, G. A., Kao, C., Zhao, H., Tibshirani, R., Zare, R. N., Brooks, J. D.
2019
- **Reply by Authors.** *The Journal of urology*
Gross, M. D., Marks, L. S., Sonn, G. A., Green, D. A., Wang, G. J., Shoag, J. E., Cabezon, E., Margolis, D. J., Robinson, B. D., Hu, J. C.
2019: 101097JU000000000000053402
- **Multimodality Hyperpolarized C-13 MRS/PET/Multiparametric MR Imaging for Detection and Image-Guided Biopsy of Prostate Cancer: First Experience in a Canine Prostate Cancer Model** *MOLECULAR IMAGING AND BIOLOGY*
Bachawal, S. V., Park, J., Valluru, K. S., Loft, M., Felt, S. A., Vilches-Moure, J. G., Saenz, Y. F., Daniel, B., Iagaru, A., Sonn, G., Cheng, Z., Spielman, D. M., Willmann, et al
2019; 21 (5): 861–70
- **Variation in MRI-Ultrasound Fusion Targeted Biopsy Outcomes in Asian-American Men: A Multi-Center Study.** *The Journal of urology*
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