

Stanford



Pejman Ghanouni, MD, PhD

Assistant Professor of Radiology (General Radiology) and, by courtesy, of Neurosurgery and of Urology at the Stanford University Medical Center

CLINICAL OFFICES

- **Diagnostic Radiology**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

CLINICAL FOCUS

- Diagnostic Radiology

ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Radiology
- Assistant Professor - Med Center Line (By courtesy), Neurosurgery
- Assistant Professor - Med Center Line (By courtesy), Urology

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Body Imaging Fellowship (2011) CA
- Residency: Stanford University Radiology Residency (2010) CA
- Internship: Santa Clara Valley Medical Center Dept of Medicine (2006) CA
- Medical Education: Stanford University School of Medicine Registrar (2005) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (2010)

Research & Scholarship

CLINICAL TRIALS

- A Phase IV Post Approval Clinical Study of ExAblate Treatment of Metastatic Bone Tumors for the Palliation of Pain, Recruiting
- A Pilot Study of 68Ga PSMA 11 PET/MRI and 68Ga RM2 PET/MRI for Biopsy Guidance in Patients With Suspected Prostate Cancer, Recruiting
- Continued Access Protocol: ExAblate Transcranial MR Guided Focused Ultrasound for the Treatment of Essential Tremors, Not Recruiting
- ExAblate (MRgFUS) Treatment of Metastatic Bone Tumors for the Palliation of Pain, Not Recruiting
- ExAblate Conformal Bone System Treatment of Metastatic Bone Tumors for the Palliation of Pain, Not Recruiting
- ExAblate Transcranial MR Guided Focused Ultrasound for the Treatment of Essential Tremors, Not Recruiting
- ExAblate Treatment of Metastatic Bone Tumors for the Palliation of Pain, Not Recruiting
- ExAblate UF V2 System for the Treatment of Symptomatic Uterine Fibroids, Not Recruiting

- Feasibility of ExAblate MRI Guided High Intensity Focused Ultrasound Tx of Soft Tissue Tumors, Not Recruiting
- MR Guided High Intensity Focused Ultrasound for Lumbar Back Pain, Not Recruiting

Teaching

COURSES

2019-20

- Introduction to Imaging and Image-based Human Anatomy: BIOE 220, RAD 220 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Steven Leung

Publications

PUBLICATIONS

- **Three-year follow-up of prospective trial of focused ultrasound thalamotomy for essential tremor.** *Neurology*
Halpern, C. H., Santini, V., Lipsman, N., Lozano, A. M., Schwartz, M. L., Shah, B. B., Elias, W. J., Cosgrove, G. R., Hayes, M. T., McDannold, N., Aldrich, C., Eisenberg, H. M., Gandhi, et al
2019
- **Predictors of Outcomes After Focused Ultrasound Thalamotomy.** *Neurosurgery*
Krishna, V., Sammartino, F., Cosgrove, R., Ghanouni, P., Schwartz, M., Gwinn, R., Eisenberg, H., Fishman, P., Chang, J. W., Taira, T., Kaplitt, M., Rezai, A., Rumia, et al
2019
- **Prolonged heating in nontargeted tissue during MR-guided focused ultrasound of bone tumors** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Bitton, R. R., Webb, T. D., Pauly, K., Ghanouni, P.
2019; 50 (5): 1526–33
- **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
- **Evaluation of the routine use of pelvic MRI in women presenting with symptomatic uterine fibroids: When is pelvic MRI useful?** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Kim-Nhien Vu, Fast, A. M., Shaffer, R. K., Rosenberg, J., Dababou, S., Marrochio, C., Vasawala, S. S., Lum, D. A., Chen, B., Hovsepian, D. M., Ghanouni, P.
2019; 49 (7): E271–E281
- **Magnetic-resonance-guided focused ultrasound treatment of non-spinal osteoid osteoma in children: multicentre experience.** *Pediatric radiology*
Arrigoni, F., Napoli, A., Bazzocchi, A., Zugaro, L., Scipione, R., Bruno, F., Palumbo, P., Anzidei, M., Mercatelli, D., Gravina, G. L., Zoccali, C., Ghanouni, P., Barile, et al
2019
- **How Often is the Dynamic Contrast Enhanced Score Needed in PI-RADS Version 2?** *Current problems in diagnostic radiology*
Roh, A. T., Fan, R. E., Sonn, G. A., Vasawala, S. S., Ghanouni, P., Loening, A. M.
2019
- **Are fibroid and bony pelvis characteristics associated with urinary and pelvic symptom severity?**
Shaffer, R. K., Dobberfuhr, A. D., Vu, K., Fast, A. M., Dababou, S., Marrochio, C., Lum, D. A., Hovsepian, D. M., Ghanouni, P., Chen, B.
MOSBY-ELSEVIER.2019
- **Prolonged Heating in Nontargeted Tissue During MR-guided Focused Ultrasound of Bone Tumors.** *Journal of magnetic resonance imaging : JMIR*
Bitton, R. R., Webb, T. D., Pauly, K. B., Ghanouni, P.
2019

- **MR-Guided Focused Ultrasound Versus Radiofrequency Capsulotomy for Treatment-Refractory Obsessive-Compulsive Disorder: A Cost-Effectiveness Threshold Analysis** *FRONTIERS IN NEUROSCIENCE*
Kumar, K. K., Bhati, M. T., Ravikumar, V. K., Ghanouni, P., Stein, S. C., Halpern, C. H.
2019; 13
- **Are Fibroid and Bony Pelvis Characteristics Associated with Urinary and Pelvic Symptom Severity?** *American journal of obstetrics and gynecology*
Shaffer, R. K., Dobberfuhr, A. D., Vu, K., Fast, A. M., Dababou, S., Marrocchio, C., Lum, D. A., Hovsepian, D. M., Ghanouni, P., Chen, B.
2019
- **Evaluation of the routine use of pelvic MRI in women presenting with symptomatic uterine fibroids: When is pelvic MRI useful?** *Journal of magnetic resonance imaging : JMRI*
Vu, K., Fast, A. M., Shaffer, R. K., Rosenberg, J., Dababou, S., Marrocchio, C., Vasanaawala, S. S., Lum, D. A., Chen, B., Hovsepian, D. M., Ghanouni, P.
2019
- **Applying the PRECISION approach in biopsy naïve and previously negative prostate biopsy patients.** *Urologic oncology*
Wang, N. N., Teslovich, N. C., Fan, R. E., Ghanouni, P., Leppert, J. T., Brooks, J. D., Ahmadi, S., Sonn, G. A.
2019
- **Framework for the co-registration of MRI and Histology Images in Prostate Cancer Patients with Radical Prostatectomy**
Rusu, M., Kunder, C., Fan, R., Ghanouni, P., West, R., Sonn, G., Brooks, J., Angelini, E. D., Landman, B. A.
SPIE-INT SOC OPTICAL ENGINEERING.2019
- **Impact of skull density ratio on efficacy and safety of magnetic resonance-guided focused ultrasound treatment of essential tremor.** *Journal of neurosurgery*
D'Souza, M., Chen, K. S., Rosenberg, J., Elias, W. J., Eisenberg, H. M., Gwinn, R., Taira, T., Chang, J. W., Lipsman, N., Krishna, V., Igase, K., Yamada, K., Kishima, et al
2019: 1–6
- **MR-Guided Focused Ultrasound Versus Radiofrequency Capsulotomy for Treatment-Refractory Obsessive-Compulsive Disorder: A Cost-Effectiveness Threshold Analysis.** *Frontiers in neuroscience*
Kumar, K. K., Bhati, M. T., Ravikumar, V. K., Ghanouni, P., Stein, S. C., Halpern, C. H.
2019; 13: 66
- **A rapid beam simulation framework for transcranial focused ultrasound.** *Scientific reports*
Leung, S. A., Webb, T. D., Bitton, R. R., Ghanouni, P., Butts Pauly, K.
2019; 9 (1): 7965
- **Teaching Urologists "How to Read Multi-Parametric Prostate MRIs Using PIRADSV2": Results of an iBook Pilot Study.** *Urology*
Wang, N. N., Fan, R. E., Ghanouni, P., Sonn, G. A.
2019
- **Measurements of the Relationship Between CT Hounsfield Units and Acoustic Velocity and How It Changes With Photon Energy and Reconstruction Method** *IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL*
Webb, T. D., Leung, S. A., Rosenberg, J., Ghanouni, P., Dahl, J. J., Pelc, N. J., Pauly, K.
2018; 65 (7): 1111–24
- **Bowel endometriosis: diagnosis and management** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*
Nezhat, C., Li, A., Falik, R., Copeland, D., Razavi, G., Shakib, A., Mihailide, C., Bamford, H., DiFrancesco, L., Tazuke, S., Ghanouni, P., Rivas, H., Nezhat, et al
2018; 218 (6): 549–62
- **Gallium 68 PSMA-11 PET/MR Imaging in Patients with Intermediate- or High-Risk Prostate Cancer.** *Radiology*
Park, S. Y., Zacharias, C., Harrison, C., Fan, R. E., Kunder, C., Hatami, N., Giesel, F., Ghanouni, P., Daniel, B., Loening, A. M., Sonn, G. A., Iagaru, A.
2018: 172232
- **Neurological adverse event profile of magnetic resonance imaging-guided focused ultrasound thalamotomy for essential tremor** *MOVEMENT DISORDERS*
Fishman, P. S., Elias, W., Ghanouni, P., Gwinn, R., Lipsman, N., Schwartz, M., Chang, J. W., Taira, T., Krishna, V., Rezai, A., Yamada, K., Igase, K., Cosgrove, et al
2018; 33 (5): 843–47
- **Neurologic Adverse Event Profile of MRI-Guided Focused Ultrasound Thalamotomy for Essential Tremor**
Fishman, P. S., Elias, W., Ghanouni, P., Gwinn, R., Lipsman, N., Schwartz, M., Chang, J., Taira, T., Krishna, V., Yamada, K., Igase, K., Cosgrove, G., Kishima, et al

LIPPINCOTT WILLIAMS & WILKINS.2018

- **Tumor characterization by ultrasound-release of multiple protein and microRNA biomarkers, preclinical and clinical evidence** *PLOS ONE*
D'Souza, A. L., Chevillet, J. R., Ghanouni, P., Yan, X., Tewari, M., Gambhir, S. S.
2018; 13 (3): e0194268
- **High-Intensity Focused Ultrasound for Pain Management in Patients with Cancer** *RADIOGRAPHICS*
Dababou, S., Marrocchio, C., Scipione, R., Erasmus, H., Ghanouni, P., Anzidei, M., Catalano, C., Napoli, A.
2018; 38 (2): 603–23
- **Thermal diffusivity and perfusion constants from in vivo MR-guided focussed ultrasound treatments: a feasibility study** *INTERNATIONAL JOURNAL OF HYPERTHERMIA*
Dillon, C. R., Rieke, V., Ghanouni, P., Payne, A.
2018; 34 (4): 352–62
- **Performance of multiparametric MRI appears better when measured in patients who undergo radical prostatectomy.** *Research and reports in urology*
Wang, N. N., Fan, R. E., Leppert, J. T., Ghanouni, P., Kunder, C. A., Brooks, J. D., Chung, B. I., Sonn, G. A.
2018; 10: 233–35
- **Performance of multiparametric MRI appears better when measured in patients who undergo radical prostatectomy** *RESEARCH AND REPORTS IN UROLOGY*
Wang, N. N., Fan, R. E., Leppert, J. T., Ghanouni, P., Kunder, C. A., Brooks, J. D., Chung, B., Sonn, G. A.
2018; 10: 233–35
- **Diffusion MRI tractography for improved transcranial MRI-guided focused ultrasound thalamotomy targeting for essential tremor.** *NeuroImage. Clinical*
Tian, Q., Wintermark, M., Jeffrey Elias, W., Ghanouni, P., Halpern, C. H., Henderson, J. M., Huss, D. S., Goubran, M., Thaler, C., Airan, R., Zeineh, M., Pauly, K. B., McNab, et al
2018; 19: 572–80
- **Use of High-intensity Focused Ultrasound in the Management of Extra-abdominal Desmoid Tumors** *CURRENT MEDICAL IMAGING REVIEWS*
Bartocci, M., Bazzocchi, A., Napoli, A., Ghanouni, P., Spinnato, P., Facchini, G., Bonomo, L., Albisinni, U.
2018; 14 (1): 47–52
- **A prospective trial of magnetic resonance-guided focused ultrasound thalamotomy for essential tremor: Results at the 2-year follow-up.** *Annals of neurology*
Chang, J. W., Park, C. K., Lipsman, N., Schwartz, M. L., Ghanouni, P., Henderson, J. M., Gwinn, R., Witt, J., Tierney, T. S., Cosgrove, G. R., Shah, B. B., Abe, K., Taira, et al
2018; 83 (1): 107–14
- **The impact of computed high b-value images on the diagnostic accuracy of DWI for prostate cancer: A receiver operating characteristics analysis.** *Scientific reports*
Ning, P., Shi, D., Sonn, G. A., Vasanawala, S. S., Loening, A. M., Ghanouni, P., Obara, P., Shin, L. K., Fan, R. E., Hargreaves, B. A., Daniel, B. L.
2018; 8 (1): 3409
- **MRI monitoring of focused ultrasound sonications near metallic hardware.** *Magnetic resonance in medicine*
Weber, H., Ghanouni, P., Pascal-Tenorio, A., Pauly, K. B., Hargreaves, B. A.
2018; 80 (1): 259–71
- **Treatment of Low-Flow Vascular Malformations of the Extremities Using MR-Guided High Intensity Focused Ultrasound: Preliminary Experience** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Ghanouni, P., Kishore, S., Lungren, M. P., Bitton, R., Chan, L., Avedian, R., Bazzocchi, A., Pauly, K., Napoli, A., Hovsepian, D. M.
2017; 28 (12): 1739–44
- **Noninvasive Therapy for Osteoid Osteoma: A Prospective Developmental Study with MR Imaging-guided High-Intensity Focused Ultrasound.** *Radiology*
Napoli, A., Bazzocchi, A., Scipione, R., Anzidei, M., Saba, L., Ghanouni, P., Cozzi, D. A., Catalano, C.
2017: 162680-?
- **Cost-effectiveness of focused ultrasound, radiosurgery, and DBS for essential tremor.** *Movement disorders*
Ravikumar, V. K., Parker, J. J., Hornbeck, T. S., Santini, V. E., Pauly, K. B., Wintermark, M., Ghanouni, P., Stein, S. C., Halpern, C. H.
2017

- **MR Thermometry Near Metallic Devices Using Multispectral Imaging** *MAGNETIC RESONANCE IN MEDICINE*
Weber, H., Taviani, V., Yoon, D., Ghanouni, P., Pauly, K. B., Hargreaves, B. A.
2017; 77 (3): 1162-1169
- **Magnetic resonance-guided focused ultrasound treatment of extra-abdominal desmoid tumors: a retrospective multicenter study** *EUROPEAN RADIOLOGY*
Ghanouni, P., Dobrotwir, A., Bazzocchi, A., Bucknor, M., Bitton, R., Rosenberg, J., Telischak, K., Busacca, M., Ferrari, S., Albinini, U., Walters, S., Gold, G., Ganjoo, et al
2017; 27 (2): 732-740
- **Improved cortical bone specificity in UTE MR Imaging** *MAGNETIC RESONANCE IN MEDICINE*
Johnson, E. M., Vyas, U., Ghanouni, P., Pauly, K. B., Pauly, J. M.
2017; 77 (2): 684-695
- **A meta-analysis of palliative treatment of pancreatic cancer with high intensity focused ultrasound.** *Journal of therapeutic ultrasound*
Dababou, S., Marrocchio, C., Rosenberg, J., Bitton, R., Pauly, K. B., Napoli, A., Hwang, J. H., Ghanouni, P.
2017; 5: 9-?
- **Concurrent Imatinib and Radiation Therapy for Unresectable and Symptomatic Desmoid Tumors.** *Sarcoma*
Moding, E. J., Million, L., Avedian, R., Ghanouni, P., Kunder, C., Ganjoo, K. N.
2017; 2017: 2316839
- **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.
2017
- **Efficient Transcranial Ultrasound Delivery via Excitation of Lamb Waves: Concept and Preliminary Results**
Firouzi, K., Ghanouni, P., Khuri-Yakub, B. T., IEEE
IEEE.2017
- **Transcranial MRI-guided high-intensity focused ultrasound for treatment of essential tremor: A pilot study on the correlation between lesion size, lesion location, thermal dose, and clinical outcome.** *Journal of magnetic resonance imaging : JMRI*
Federau, C., Goubran, M., Rosenberg, J., Henderson, J., Halpern, C. H., Santini, V., Wintermark, M., Butts Pauly, K., Ghanouni, P.
2017
- **Clinically Approved Nanoparticle Imaging Agents.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Thakor, A. S., Jokerst, J. V., Ghanouni, P., Campbell, J., Mitra, E., Gambhir, S. S.
2016
- **Specialized volumetric thermometry for improved guidance of MRgFUS in brain.** *Magnetic resonance in medicine*
Marx, M., Ghanouni, P., Butts Pauly, K.
2016
- **Predicting variation in subject thermal response during transcranial magnetic resonance guided focused ultrasound surgery: Comparison in seventeen subject datasets.** *Medical physics*
Vyas, U., Ghanouni, P., Halpern, C. H., Elias, J., Pauly, K. B.
2016; 43 (9): 5170-?
- **A Randomized Trial of Focused Ultrasound Thalamotomy for Essential Tremor.** *New England journal of medicine*
Elias, W. J., Lipsman, N., Ondo, W. G., Ghanouni, P., Kim, Y. G., Lee, W., Schwartz, M., Hynynen, K., Lozano, A. M., Shah, B. B., Huss, D., Dallapiazza, R. F., Gwinn, et al
2016; 375 (8): 730-739
- **Correcting heat-induced chemical shift distortions in proton resonance frequency-shift thermometry.** *Magnetic resonance in medicine*
Gaur, P., Partanen, A., Werner, B., Ghanouni, P., Bitton, R., Butts Pauly, K., Grissom, W. A.
2016; 76 (1): 172-182
- **Correcting Heat-Induced Chemical Shift Distortions in Proton Resonance Frequency-Shift Thermometry** *MAGNETIC RESONANCE IN MEDICINE*
Gaur, P., Partanen, A., Werner, B., Ghanouni, P., Bitton, R., Pauly, K. B., Grissom, W. A.
2016; 76 (1): 172-182

- **Magnetic resonance-guided focused ultrasound treatment of extra-abdominal desmoid tumors: a retrospective multicenter study.** *European radiology*
Ghanouni, P., Dobrotwir, A., Bazzocchi, A., Bucknor, M., Bitton, R., Rosenberg, J., Telischak, K., Busacca, M., Ferrari, S., Albinini, U., Walters, S., Gold, G., Ganjoo, et al
2016: -?
- **MR thermometry near metallic devices using multispectral imaging.** *Magnetic resonance in medicine*
Weber, H., Taviani, V., Yoon, D., Ghanouni, P., Pauly, K. B., Hargreaves, B. A.
2016
- **Improved cortical bone specificity in UTE MR Imaging.** *Magnetic resonance in medicine*
Johnson, E. M., Vyas, U., Ghanouni, P., Pauly, K. B., Pauly, J. M.
2016
- **Is MR-guided High-intensity Focused Ultrasound a Feasible Treatment Modality for Desmoid Tumors?** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Avedian, R. S., Bitton, R., Gold, G., Butts-Pauly, K., Ghanouni, P.
2016; 474 (3): 697-704
- **Improving thermal dose accuracy in magnetic resonance-guided focused ultrasound surgery: Long-term thermometry using a prior baseline as a reference.** *Journal of magnetic resonance imaging*
Bitton, R. R., Webb, T. D., Pauly, K. B., Ghanouni, P.
2016; 43 (1): 181-189
- **Establishing a clinical service for the treatment of osteoid osteoma using magnetic resonance-guided focused ultrasound: overview and guidelines.** *Journal of therapeutic ultrasound*
Temple, M. J., Waspe, A. C., Amaral, J. G., Napoli, A., LeBlang, S., Ghanouni, P., Bucknor, M. D., Campbell, F., Drake, J. M.
2016; 4: 16-?
- **Transcranial MRI-Guided Focused Ultrasound: A Review of the Technologic and Neurologic Applications** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Ghanouni, P., Pauly, K. B., Elias, W. J., Henderson, J., Sheehan, J., Monteith, S., Wintermark, M.
2015; 205 (1): 150-159
- **TU-B-210-01: MRg HIFU - Bone and Soft Tissue Tumor Ablation.** *Medical physics*
Ghanouni, P.
2015; 42 (6): 3598-?
- **Optimization of White-Matter-Nulling Magnetization Prepared Rapid Gradient Echo (MP-RAGE) Imaging** *MAGNETIC RESONANCE IN MEDICINE*
Saranathan, M., Tourdias, T., Bayram, E., Ghanouni, P., Rutt, B. K.
2015; 73 (5): 1786-1794
- **International consensus on use of focused ultrasound for painful bone metastases: Current status and future directions** *INTERNATIONAL JOURNAL OF HYPERTHERMIA*
Huisman, M., Ter Haar, G., Napoli, A., Hananel, A., Ghanouni, P., Loevey, G., Nijenhuis, R. J., Van den Bosch, M. A., Rieke, V., Majumdar, S., Marchetti, L., Pfeffer, R. M., Hurwitz, et al
2015; 31 (3): 251-259
- **T2-based temperature monitoring in abdominal fat during MR-guided focused ultrasound treatment of patients with uterine fibroids.** *Journal of therapeutic ultrasound*
Ozhinsky, E., Kohi, M. P., Ghanouni, P., Rieke, V.
2015; 3: 15-?
- **Magnetic resonance-guided focused ultrasound for patients with painful bone metastases: phase III trial results.** *Journal of the National Cancer Institute*
Hurwitz, M. D., Ghanouni, P., Kanaev, S. V., Iozeffi, D., Gianfelice, D., Fennessy, F. M., Kuten, A., Meyer, J. E., Leblang, S. D., Roberts, A., Choi, J., Larner, J. M., Napoli, et al
2014; 106 (5)
- **Respiration based steering for high intensity focused ultrasound liver ablation.** *Magnetic resonance in medicine*
Holbrook, A. B., Ghanouni, P., Santos, J. M., Dumoulin, C., Medan, Y., Pauly, K. B.
2014; 71 (2): 797-806
- **Respiration Based Steering for High Intensity Focused Ultrasound Liver Ablation** *MAGNETIC RESONANCE IN MEDICINE*

- Holbrook, A. B., Ghanouni, P., Santos, J. M., Dumoulin, C., Medan, Y., Pauly, K. B.
2014; 71 (2): 797-806
- **Magnetic Resonance-Guided Focused Ultrasound for Patients With Painful Bone Metastases: Phase III Trial Results.** *Journal of the National Cancer Institute*
Hurwitz, M. D., Ghanouni, P., Kanaev, S. V., Iozeffi, D., Gianfelice, D., Fennessy, F. M., Kuten, A., Meyer, J. E., Leblang, S. D., Roberts, A., Choi, J., Lerner, J. M., Napoli, et al
2014; 106 (5)
 - **In vivo USPIO magnetic resonance imaging shows that minocycline mitigates macrophage recruitment to a peripheral nerve injury** *MOLECULAR PAIN*
Ghanouni, P., Behera, D., Xie, J., Chen, X., Moseley, M., Biswal, S.
2012; 8
 - **Rapid MR venography in children using a blood pool contrast agent and multi-station fat-water-separated volumetric imaging** *PEDIATRIC RADIOLOGY*
Ghanouni, P., Walters, S. G., Vasanawala, S. S.
2012; 42 (2): 242-248
 - **MR Imaging-guided Cryoablation for the Treatment of Benign Prostatic Hyperplasia** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Ghanouni, P., Gill, H., Kaye, E., Pauly, K. B., Daniel, B.
2011; 22 (10): 1427-1430
 - **In vivo MR acoustic radiation force imaging in the porcine liver** *MEDICAL PHYSICS*
Holbrook, A. B., Ghanouni, P., Santos, J. M., Medan, Y., Pauly, K. B.
2011; 38 (9): 5081-5089
 - **Magnetic resonance guided high-intensity focused ultrasound ablation of musculoskeletal tumors.** *Current orthopaedic practice*
Avedian, R. S., Gold, G., Ghanouni, P., Pauly, K. B.
2011; 22 (4): 303-308
 - **Computed Tomographic Diagnosis of Appendicitis Within a Spigelian Hernia** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Deshmukh, S., Ghanouni, P., Mindelzun, R., Roos, J.
2010; 34 (2): 199-200
 - **An Interdisciplinary Initiative to Reduce Radiation Exposure: Evaluation of Appendicitis in a Pediatric Emergency Department With Clinical Assessment Supported by a Staged Ultrasound and Computed Tomography Pathway** *10th Annual Academic Emergency Medicine Consensus Conference/Annual Meeting of the Society-for-Academic-Emergency-Medicine*
Ramarajan, N., Krishnamoorthi, R., Barth, R., Ghanouni, P., Mueller, C., Dannenburg, B., Wang, N. E.
WILEY-BLACKWELL PUBLISHING, INC.2009: 1258-65
 - **Early Sonographic Diagnosis of Intrauterine Device Migration to the Adnexa** *JOURNAL OF CLINICAL ULTRASOUND*
Deshmukh, S., Ghanouni, P., Jeffrey, R. B.
2009; 37 (7): 414-419
 - **Ductal pattern enhancement on magnetic resonance imaging of the breast due to ductal lavage** *BREAST JOURNAL*
Ghanouni, P., Kurian, A. W., Margolis, D., Hartman, A., Mills, M. A., Plevritis, S. K., Ford, J. M., Daniel, B. L.
2007; 13 (3): 281-286
 - **General purpose, field-portable cell-based biosensor platform** *BIOSENSORS & BIOELECTRONICS*
Gilchrist, K. H., Barker, V. N., Fletcher, L. E., DeBusschere, B. D., Ghanouni, P., Giovangrandi, L., Kovacs, G. T.
2001; 16 (7-8): 557-564
 - **Single-molecule spectroscopy of the beta(2) adrenergic receptor: Observation of conformational substates in a membrane protein** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Peleg, G., Ghanouni, P., Kobilka, B. K., Zare, R. N.
2001; 98 (15): 8469-8474
 - **Functionally different agonists induce distinct conformations in the G protein coupling domain of the beta(2) adrenergic receptor** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Ghanouni, P., Gryczynski, Z., Steenhuis, J. J., LEE, T. W., Farrens, D. L., Lakowicz, J. R., Kobilka, B. K.
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