




Garry Gold

Professor of Radiology (Musculoskeletal Imaging)

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Lucas Center for MR Research**

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Stanford, CA 94305

Tel (650) 725-0130

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Jeslyn Rumbold - Administrative Assistant

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Tel 650-724-0361

Bio

BIO

Garry E. Gold, M.D., is a clinical radiologist and an active investigator specializing in patient-oriented research. Following completion of his Master of Science in Electrical Engineering from Stanford University in 1988, Dr. Gold earned his medical degree in 1992 from the Stanford University School of Medicine. In 1993, he began the Stanford Department of Radiology Residency Program, during which he spent two years serving as an NCI Cancer Imaging Fellow from 1995-1997 under the supervision of Dr. Albert Macovski. After board certification in Radiology, Dr. Gold became an Osteoradiology Fellow at the University of California in San Diego under Dr. Donald Resnick from 1998-1999. He was appointed an Assistant Professor in Stanford's Department of Radiology in January 2000. In 2006, Dr. Gold became an Associate Professor with tenure in the Department of Radiology. In 2011 Dr. Gold was awarded the first phase of this K24 project which has produced many successful clinically oriented researchers (see tables). In 2012, Dr. Gold was promoted to Professor of Radiology and by courtesy Bioengineering and Orthopaedic Surgery. He was also appointed as the Associate Chair for Research in Radiology at Stanford. In 2017, Dr. Gold was appointed as Vice Chair for Research and Organization in the Department.

Dr. Gold has earned an international reputation as a clinical radiologist and patient-oriented researcher specializing in osteoarthritis and translational MRI development. His unique background in electrical engineering and radiology has resulted in over 200 peer-reviewed articles and eight successful patent applications. He is Past President of the International Society for Magnetic Resonance in Medicine (ISMRM) and the Society for Computer Body Tomography and Magnetic Resonance (SCBT/MR). In recognition of his widely respected research and mentoring, he has won multiple honors, including the SCBT/MR Lauterbur Award multiple times. In 2011 he was named a Fellow of the ISMRM and Academy of Radiology Research Distinguished Investigator. In 2013 he was named Faculty of the Year for Stanford Radiology. In 2016 Dr. Gold was named as a Fellow of the American Institute for Medical and Biological Engineering (AIMBE).

CLINICAL FOCUS

- Radiology
- Diagnostic Radiology

ACADEMIC APPOINTMENTS

- Professor, Radiology
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Vice Chair for Research and Organization, Stanford University Department of Radiology, (2017- present)
- President, SCBT/MR, (2017-2018)
- President, ISMRM, (2015-2017)
- Chair, Workshop and Study Group Committee, ISMRM, (2014-2015)
- Chair, Workshop and Study Group Committee, ISMRM, (2014-2015)
- Chair, Angel Funds Selection Committee, Stanford University, (2013- present)
- Chair, Appointment and Promotion Committee, Stanford University Department of Radiology, (2013- present)
- Chair, Blue Sky Funds Selection Committee, Stanford University, (2013- present)
- Chair, Radiology Compensation Committee, Stanford University, (2013- present)
- Chair, Student Funds Selection Committee, Stanford University, (2013- present)
- Chair, VA Chief Faculty Search Committee, Stanford University/Veterans Administration VISN 21, (2013-2015)
- Radiology Biodesign Program Committee, Stanford University, (2013-2015)
- Associate Chair for Research, Stanford University Department of Radiology, (2012-2017)
- Advanced Leadership Development Program, Stanford University, (2012-2013)
- Chair, Annual Meeting Program Committee, ISMRM, (2012-2013)
- Program Committee Vice-Chair and Chair, ISMRM, (2011-2014)
- Vice Chair, Annual Meeting Program Committee, ISMRM, (2011-2012)
- Leadership Development Program, Stanford University, (2010-2011)
- Principal Investigator, Stanford Radiology & GE Healthcare TIGER Team, Stanford University/General Electric, (2009-2016)
- Chair, Clinical Growth Task Force, ISMRM, (2009-2010)
- Chair, Research Committee, SCBT/MR, (2009-2010)
- Co-Director, Bioengineering Scholarly Concentration, Stanford University, (2007-2015)
- Chair, Radiology Resident Research Program, Stanford University, (2007-2013)
- Chair, GE-Stanford Technical Advisory Board, Stanford University/General Electric, (2007-2009)
- Faculty Fellows, Stanford School of Medicine, (2007-2008)
- President, Musculoskeletal Study Group, ISMRM, (2005-2007)
- Chief, VA MSK Radiology, Stanford University/Veterans Administration VISN 21, (2000-2003)
- Chief, VA Radiology Research Committee, Stanford University/Veterans Administration VISN 21, (2000-2003)

HONORS AND AWARDS

- Outstanding Teacher Award, ISMRM (2018)
- Lodwick Award for Outstanding Publication in Musculoskeletal Science, Harvard University (2017)
- Fellow, American Institute for Medical and Biological Engineering (2016)
- Faculty of the Year, Stanford University Department of Radiology (2013)
- ARR Distinguished Investigator, Academy of Radiology Research (2012)
- Cum Laude Award, SCBT/MR (2012)
- Fellow, International Society for Magnetic Resonance In Medicine (2011)
- Stanford Firestone Medal for Excellence in Undergraduate Research, Stanford University (2011)

- Young Investigator Award, SCBT/MR (2011)
- Young Investigator Award, SCBT/MR (2010)
- Cum Laude Award, SCBT/MR (2009)
- Thought Leadership Award, GE Healthcare (2009)
- Young Investigator Award, ASB (2009)
- Lauterbur Award, SCBT/MR (2008)
- Moncada Award, SCBT/MR (2008)
- Cum Laude Award, SCBT/MR (2007)
- Outstanding Teacher Award, ISMRM (2007)
- President's Medal, ISS (2007)
- Lauterbur Award, SCBT/MR (2006)
- Kaiser Award for Innovation in Medical Education, Stanford (2005)
- Lauterbur Award, SCBT/MR (2005)
- SCBT/MR Fellow, SCBT/MR (2005)
- Cum Laude Award, SCBT/MR (2004)
- Lauterbur Award, SCBT/MR (2003)
- President's Award, ARRS (2003)
- Lauterbur Award, SCBT/MR (2002)
- Lauterbur Award, SCBT/MR (2001)
- Resident's Teaching Award, Radiology Dept. (2000)
- Young Investigator Award, Veterans Affairs VISN 21 (2000)
- Cum Laude Award, SCBT/MR (1999)
- Medical Device Network Invention Challenge Award, Stanford University (1999)
- President's Award in Radiology, ARRS (1997)
- Roentgen Resident/Fellow Research Award, RSNA (1996)
- Young Investigator Moore Award, ISMRM (1995)
- Dean's Award for Research, Stanford University School of Medicine (1992)
- Award for Outstanding Engineering Design Project, Hewlett Packard (1988)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Undergraduate Admissions Committee, Stanford University (2015 - 2017)
- Abstract Reviewer, ISHA (2014 - present)
- Abstract Reviewer, ORS (2014 - present)
- Abstract Reviewer, ISMRM (2014 - present)
- Research Development Committee, RSNA (2014 - present)
- Bioengineering PhD Student Admissions Committee, Stanford University (2012 - present)
- Faculty Fellows Selection Committee, Stanford School of Medicine (2012 - present)
- Lucas Service Center Steering Committee, Stanford University (2012 - present)
- Stanford-VA Task Force Committee, Stanford University/Veterans Administration VISN 21 (2012 - present)
- Admissions Committee, Stanford School of Medicine (2009 - 2018)

- Committee for Affiliated Sections, ISMRM (2009 - 2010)
- Board of Trustees, ISMRM (2008 - 2017)
- Radiology Ad-Hoc Committee, Stanford University (2007 - present)
- GE Healthcare MSK MRI Medical Advisory Board, General Electric (2006 - present)
- Clinical Research Scholarly Track Committee, Stanford University (2005 - 2010)
- Committee for Financial Support, ISMRM (2005 - 2008)
- Committee on Student Stipends, ISMRM (2005 - 2008)
- Research Committee, SCBT/MR (2005 - 2008)
- Undergraduate Advising Program, Stanford University (2004 - 2006)
- Imaging Advisory Board of the Osteoarthritis Initiative, National Institutes of Health (2002 - 2009)
- Education Committee, Stanford University (2002 - 2008)
- Curriculum Reform Committee, Stanford School of Medicine (2002 - 2002)
- Education Committee & Course Organizer, ISMRM (2001 - 2004)
- Radiology Education Committee, Stanford University (2000 - 2008)
- Medical School Faculty Senate, Stanford School of Medicine (2000 - 2007)
- Scientific Program Committee, ISMRM (2000 - 2003)
- Medical Scholars Committee, Stanford School of Medicine (1999 - 2004)

PROFESSIONAL EDUCATION

- Fellowship: UCSD Medical Center - San Diego (1999) CA
- Residency: Stanford University Radiology Residency (1998) CA
- Internship: Kaiser Permanente Santa Clara Internal Medicine Residency (1993) CA
- Medical Education: Stanford University School of Medicine Registrar (1992) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (1998)
- M.D., Stanford University , Medicine (1992)
- M.S., Stanford University , Electrical Engineering (1988)
- B.S., Stanford University , Electrical Engineering (1986)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My primary focus is application of new MR imaging technology to musculoskeletal problems. Current projects include: Rapid MRI for Osteoarthritis, Weight-bearing cartilage imaging with MRI, and MRI-based models of muscle. We are studying the application of new MR imaging techniques such as rapid imaging, real-time imaging, and short echo time imaging to learn more about biomechanics and pathology of bones and joints. I am also interested in functional imaging approaches using PET-MRI.

CLINICAL TRIALS

- Use of PET/MR Imaging in Chronic Pain, Recruiting
- Effects of an Herbal Topical Cream on Osteoarthritis Symptoms, Biomarkers, and Disease Progression in the Knee, Not Recruiting

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Marianne Black, Mary Hall, Scott Uhlrich

Scholarly Concentration Director

Benson George

Postdoctoral Faculty Sponsor

Rahul Goel, Matthew Mauriello, Valentina Mazzoli

Publications

PUBLICATIONS

- **Does Injection of Hyaluronic Acid Protect Against Early Cartilage Injury Seen After Marathon Running? A Randomized Controlled Trial Utilizing High-Field Magnetic Resonance Imaging.** *The American journal of sports medicine*
Nathani, A., Gold, G. E., Monu, U., Hargreaves, B., Finlay, A. K., Rubin, E. B., Safran, M. R.
2019; 363546519879138
- **Assessment of acute bone loading in humans using [18F]NaF PET/MRI.** *European journal of nuclear medicine and molecular imaging*
Haddock, B., Fan, A. P., Uhlrich, S. D., Jorgensen, N. R., Suetta, C., Gold, G. E., Kogan, F.
2019
- **Utility of deep learning super-resolution in the context of osteoarthritis MRI biomarkers.** *Journal of magnetic resonance imaging : JMRI*
Chaudhari, A. S., Stevens, K. J., Wood, J. P., Chakraborty, A. K., Gibbons, E. K., Fang, Z., Desai, A. D., Lee, J. H., Gold, G. E., Hargreaves, B. A.
2019
- **Combined 5-minute double-echo in steady-state with separated echoes and 2-minute proton-density-weighted 2D FSE sequence for comprehensive whole-joint knee MRI assessment** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Chaudhari, A. S., Stevens, K. J., Sveinsson, B., Wood, J. P., Beaulieu, C. F., Oei, E. G., Rosenberg, J. K., Kogan, F., Alley, M. T., Gold, G. E., Hargreaves, B. A.
2019; 49 (7): E183–E194
- **Kinetic [F-18]-Fluoride of the Knee in Normal Volunteers** *CLINICAL NUCLEAR MEDICINE*
Haddock, B., Fan, A. P., Jorgensen, N. R., Suetta, C., Gold, G., Kogan, F.
2019; 44 (5): 377–85
- **Kinetic [18F]-Fluoride of the Knee in Normal Volunteers.** *Clinical nuclear medicine*
Haddock, B., Fan, A. P., Jorgensen, N. R., Suetta, C., Gold, G. E., Kogan, F.
2019
- **Imaging Features of Avascular Necrosis of the Foot and Ankle.** *Foot and ankle clinics*
Couturier, S., Gold, G.
2019; 24 (1): 17–33
- **Patellofemoral cartilage stresses are most sensitive to variations in vastus medialis muscle forces** *COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING*
Pal, S., Besier, T. F., Gold, G. E., Fredericson, M., Delp, S. L., Beaupre, G. S.
2019; 22 (2): 206–16
- **Applications of PET-Computed Tomography-Magnetic Resonance in the Management of Benign Musculoskeletal Disorders.** *PET clinics*
Yoder, J. S., Kogan, F., Gold, G. E.
2019; 14 (1): 1–15
- **Patellofemoral cartilage stresses are most sensitive to variations in vastus medialis muscle forces.** *Computer methods in biomechanics and biomedical engineering*

- Pal, S., Besier, T. F., Gold, G. E., Fredericson, M., Delp, S. L., Beaupre, G. S.
2018; 1–11
- **Combined 5-minute double-echo in steady-state with separated echoes and 2-minute proton-density-weighted 2D FSE sequence for comprehensive whole-joint knee MRI assessment.** *Journal of magnetic resonance imaging : JMRI*
Chaudhari, A. S., Stevens, K. J., Sveinsson, B., Wood, J. P., Beaulieu, C. F., Oei, E. H., Rosenberg, J. K., Kogan, F., Alley, M. T., Gold, G. E., Hargreaves, B. A.
2018
 - **PET-MRI for the Study of Metabolic Bone Disease.** *Current osteoporosis reports*
Yoder, J. S., Kogan, F., Gold, G. E.
2018
 - **Applications of PET-MRI in musculoskeletal disease.** *Journal of magnetic resonance imaging : JMRI*
Kogan, F., Broski, S. M., Yoon, D., Gold, G. E.
2018; 48 (1): 27–47
 - **3D Ultrashort TE MRI for Evaluation of Cartilaginous Endplate of Cervical Disk In Vivo: Feasibility and Correlation With Disk Degeneration in T2-Weighted Spin-Echo Sequence** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Kim, Y., Cha, J., Shin, Y., Chaudhari, A. S., Suh, Y., Yoon, S., Gold, G. E.
2018; 210 (5): 1131–40
 - **Super-resolution musculoskeletal MRI using deep learning.** *Magnetic resonance in medicine*
Chaudhari, A. S., Fang, Z., Kogan, F., Wood, J., Stevens, K. J., Gibbons, E. K., Lee, J. H., Gold, G. E., Hargreaves, B. A.
2018
 - **Cartilage Subsurface Changes to Magnetic Resonance Imaging UTE-T2*2 Years After Anterior Cruciate Ligament Reconstruction Correlate With Walking Mechanics Associated With Knee Osteoarthritis** *AMERICAN JOURNAL OF SPORTS MEDICINE*
Titchenal, M. R., Williams, A. A., Chehab, E. F., Asay, J. L., Dragoo, J. L., Gold, G. E., McAdams, T. R., Andriacchi, T. P., Chu, C. R.
2018; 46 (3): 565–72
 - **Value of MRI in medicine: More than just another test?** *Journal of magnetic resonance imaging : JMRI*
van Beek, E. J., Kuhl, C., Anzai, Y., Desmond, P., Ehman, R. L., Gong, Q., Gold, G., Gulani, V., Hall-Craggs, M., Leiner, T., Lim, C. C., Pipe, J. G., Reeder, et al
2018
 - **Deep Learning Super-Resolution Enables Rapid Simultaneous Morphological and Quantitative Magnetic Resonance Imaging**
Chaudhari, A., Fang, Z., Lee, J., Gold, G., Hargreaves, B., Knoll, F., Maier, A., Rueckert, D.
SPRINGER INTERNATIONAL PUBLISHING AG.2018: 3–11
 - **Detecting Anatomical Landmarks for Motion Estimation in Weight-Bearing Imaging of Knees**
Bier, B., Aschoff, K., Syben, C., Unberath, M., Levenston, M., Gold, G., Fahrig, R., Maier, A., Knoll, F., Maier, A., Rueckert, D.
SPRINGER INTERNATIONAL PUBLISHING AG.2018: 83–90
 - **SNR-weighted regularization of ADC estimates from double-echo in steady-state (DESS).** *Magnetic resonance in medicine*
Sveinsson, B., Gold, G. E., Hargreaves, B. A., Yoon, D.
2018
 - **Simultaneous bilateral-knee MR imaging.** *Magnetic resonance in medicine*
Kogan, F., Levine, E., Chaudhari, A. S., Monu, U. D., Epperson, K., Oei, E. H., Gold, G. E., Hargreaves, B. A.
2018; 80 (2): 529–37
 - **Five-minute knee MRI for simultaneous morphometry and T2 relaxometry of cartilage and meniscus and for semiquantitative radiological assessment using double-echo in steady-state at 3T.** *Journal of magnetic resonance imaging : JMRI*
Chaudhari, A. S., Black, M. S., Eijgenraam, S., Wirth, W., Maschek, S., Sveinsson, B., Eckstein, F., Oei, E. H., Gold, G. E., Hargreaves, B. A.
2018; 47 (5): 1328–41
 - **Range Imaging for Motion Compensation in C-Arm Cone-Beam CT of Knees under Weight-Bearing Conditions** *JOURNAL OF IMAGING*
Bier, B., Ravikumar, N., Unberath, M., Levenston, M., Gold, G., Fahrig, R., Maier, A.
2018; 4 (1)
 - **Low-intensity Vibration Therapy for Bone Health in Renal Osteodystrophy** *ACADEMIC RADIOLOGY*
Sharma, S., Gold, G. E.

2017; 24 (11): 1329-31

- **PET/MRI of Metabolic Activity in Osteoarthritis: A Feasibility Study** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Kogan, F., Fan, A. P., McWalter, E. J., Oei, E. H., Quon, A., Gold, G. E.
2017; 45 (6): 1736-1745
- **A simple analytic method for estimating T2 in the knee from DESS** *MAGNETIC RESONANCE IMAGING*
Sveinsson, B., Chaudhari, A. S., Gold, G. E., Hargreaves, B. A.
2017; 38: 63-70
- **Cluster analysis of quantitative MRI T-2 and T-1 rho relaxation times of cartilage identifies differences between healthy and ACL-injured individuals at 3T** *OSTEOARTHRITIS AND CARTILAGE*
Monu, U. D., Jordan, C. D., Samuelson, B. L., Hargreaves, B. A., Gold, G. E., McWalter, E. J.
2017; 25 (4): 513-520
- **Volumetric Multislice GagCEST Imaging of Articular Cartilage: Optimization and Comparison With T1rho** *MAGNETIC RESONANCE IN MEDICINE*
Kogan, F., Hargreaves, B. A., Gold, G. E.
2017; 77 (3): 1134-1141
- **Anatomically-standardized maps reveal distinct patterns of cartilage thickness with increasing severity of medial compartment knee osteoarthritis.** *Journal of orthopaedic research*
Favre, J., Erhart-Hledik, J. C., Blazek, K., Fasel, B., Gold, G. E., Andriacchi, T. P.
2017
- **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
- **connective tissues in the knee using ultrashort echo-time double-echo steady-state (UTEDESS).** *Magnetic resonance in medicine*
Chaudhari, A. S., Sveinsson, B., Moran, C. J., McWalter, E. J., Johnson, E. M., Zhang, T., Gold, G. E., Hargreaves, B. A.
2017
- **Perfusion has no effect on the in vivo CEST effect from Cr (CrCEST) in skeletal muscle.** *NMR in biomedicine*
Kogan, F., Stafford, R. B., Englund, E. K., Gold, G. E., Hariharan, H., Detre, J. A., Reddy, R.
2017; 30 (1)
- **Comparison of Different Approaches for Measuring Tibial Cartilage Thickness** *JOURNAL OF INTEGRATIVE BIOINFORMATICS*
Maier, J., Black, M., Bonaretti, S., Bier, B., Eskofier, B., Choi, J., Levenston, M., Gold, G., Fahrig, R., Maier, A.
2017; 14 (2)
- **Evaluation of hip abductor and adductor strength in the elderly: a reliability study.** *European review of aging and physical activity*
Gafner, S., Bastiaenen, C. H., Terrier, P., Punt, I., Ferrari, S., Gold, G., de Bie, R., Allet, L.
2017; 14: 5-?
- **A simple analytic method for estimating T2 in the knee from DESS.** *Magnetic resonance imaging*
SVEINSSON, B., Chaudhari, A. S., Gold, G. E., Hargreaves, B. A.
2016; 38: 63-70
- **Potential of PET-MRI for imaging of non-oncologic musculoskeletal disease.** *Quantitative imaging in medicine and surgery*
Kogan, F., Fan, A. P., Gold, G. E.
2016; 6 (6): 756-771
- **Magnetic Resonance Imaging of Asymptomatic Knees in Collegiate Basketball Players: The Effect of One Season of Play.** *Clinical journal of sport medicine*
Pappas, G. P., Vogelsong, M. A., Staroswiecki, E., Gold, G. E., Safran, M. R.
2016; 26 (6): 483-489
- **PET/MRI of metabolic activity in osteoarthritis: A feasibility study.** *Journal of magnetic resonance imaging : JMRI*
Kogan, F., Fan, A. P., McWalter, E. J., Oei, E. H., Quon, A., Gold, G. E.
2016

- **Cluster analysis of quantitative MRI T2 and T1? relaxation times of cartilage identifies differences between healthy and ACL-injured individuals at 3T. *Osteoarthritis and cartilage***
Monu, U. D., JORDAN, C. D., Samuelson, B. L., Hargreaves, B. A., Gold, G. E., McWalter, E. J.
2016
- **Interventional dual-energy imaging-Feasibility of rapid kV-switching on a C-arm CT system *MEDICAL PHYSICS***
Mueller, K., Datta, S., Ahmad, M., Choi, J., Moore, T., Pung, L., Niebler, C., Gold, G. E., Maier, A., Fahrig, R.
2016; 43 (10)
- **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., Albininni, U., Walters, S., Gold, G., Ganjoo, et al
2016: -?
- **Evaluation of an Algorithm to Detect the First Ventilatory Threshold from Heart Rate: 2450 June 3, 10: 30 AM - 10: 45 AM. *Medicine and science in sports and exercise***
Silder, A., Gold, G. E., Bae, S., Ko, B., Jang, D., Delp, S. L.
2016; 48 (5): 672-673
- **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
- **Volumetric multislice gagCEST imaging of articular cartilage: Optimization and comparison with T1rho. *Magnetic resonance in medicine***
Kogan, F., Hargreaves, B. A., Gold, G. E.
2016
- **Potential of PET-MRI for imaging of non-oncologic musculoskeletal disease *Quantitative Imaging in Medicine and Surgery***
Kogan, F., Fan, A. P., Gold, G. E.
2016; 6 (6): 756-771
- **Over-exposure Correction in Knee Cone-Beam CT Imaging with Automatic Exposure Control using a Partial Low Dose Scan**
Choi, J., Muller, K., Hsieh, S., Maier, A., Gold, G., Levenston, M., Fahrig, R., Kontos, D., Flohr, T. G., Lo, J. Y.
SPIE-INT SOC OPTICAL ENGINEERING.2016
- **Upper Limb Strength and Muscle Volume in Healthy Middle-Aged Adults *JOURNAL OF APPLIED BIOMECHANICS***
Saul, K. R., Vidt, M. E., Gold, G. E., Murray, W. M.
2015; 31 (6): 484-491
- **The Role of Cartilage Stress in Patellofemoral Pain *MEDICINE AND SCIENCE IN SPORTS AND EXERCISE***
Besier, T. F., Pal, S., Draper, C. E., Fredericson, M., Gold, G. E., Delp, S. L., Beaupre, G. S.
2015; 47 (11): 2416-2422
- **Muscle velocity and inertial force from phase contrast MRI *JOURNAL OF MAGNETIC RESONANCE IMAGING***
Wentland, A. L., McWalter, E. J., Pal, S., Delp, S. L., Gold, G. E.
2015; 42 (2): 526-532
- **Approach to MR Imaging of the Elbow and Wrist: Technical Aspects and Innovation. *Magnetic resonance imaging clinics of North America***
Johnson, D., Stevens, K. J., Riley, G., Shapiro, L., Yoshioka, H., Gold, G. E.
2015; 23 (3): 355-366
- **Approach to MR Imaging of the Elbow and Wrist: Technical Aspects and Innovation. *Magnetic resonance imaging clinics of North America***
Johnson, D., Stevens, K. J., Riley, G., Shapiro, L., Yoshioka, H., Gold, G. E.
2015; 23 (3): 355-366
- **Muscle velocity and inertial force from phase contrast MRI. *Journal of magnetic resonance imaging***
Wentland, A. L., McWalter, E. J., Pal, S., Delp, S. L., Gold, G. E.
2015; 42 (2): spcone-?

- **T-2 Relaxation time quantitation differs between pulse sequences in articular cartilage** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Matzat, S. J., McWalter, E. J., Kogan, F., Chen, W., Gold, G. E.
2015; 42 (1): 105-113
- **OARSI Clinical Trials Recommendations: Hip imaging in clinical trials in osteoarthritis** *OSTEOARTHRITIS AND CARTILAGE*
Gold, G. E., Cicuttini, F., Crema, M. D., Eckstein, F., Guermazi, A., Kijowski, R., Link, T. M., Maheu, E., Martel-Pelletier, J., Miller, C. G., Pelletier, J., Peterfy, C. G., Potter, et al
2015; 23 (5): 716-731
- **OARSI Clinical Trials Recommendations: Hand imaging in clinical trials in osteoarthritis** *OSTEOARTHRITIS AND CARTILAGE*
Hunter, D. J., Arden, N., Cicuttini, F., Crema, M. D., Dardzinski, B., Duryea, J., Guermazi, A., Haugen, I. K., Kloppenburg, M., Maheu, E., Miller, C. G., Martel-Pelletier, J., Ochoa-Albiztegui, et al
2015; 23 (5): 732-746
- **OARSI Clinical Trials Recommendations: Knee imaging in clinical trials in osteoarthritis** *OSTEOARTHRITIS AND CARTILAGE*
Hunter, D. J., Altman, R. D., Cicuttini, F., Crema, M. D., Duryea, J., Eckstein, F., Guermazi, A., Kijowski, R., Link, T. M., Martel-Pelletier, J., Miller, C. G., Mosher, T. J., Ochoa-Albiztegui, et al
2015; 23 (5): 698-715
- **T1 rho Dispersion in Articular Cartilage: Relationship to Material Properties and Macromolecular Content** *CARTILAGE*
Keenan, K. E., Besier, T. F., Pauly, J. M., Smith, R. L., Delp, S. L., Beaupre, G. S., Gold, G. E.
2015; 6 (2): 113-122
- **MR Imaging Near Metallic Implants Using MAVRIC SL: Initial Clinical Experience at 3T** *ACADEMIC RADIOLOGY*
Gutierrez, L. B., Do, B. H., Gold, G. E., Hargreaves, B. A., Koch, K. M., Worters, P. W., Stevens, K. J.
2015; 22 (3): 370-379
- **MRI of the Hip for the evaluation of femoroacetabular impingement; past, present, and future.** *Journal of magnetic resonance imaging : JMRI*
Riley, G. M., McWalter, E. J., Stevens, K. J., Safran, M. R., Lattanzi, R., Gold, G. E.
2015; 41 (3): 558-572
- **Hexagonal Undersampling for Faster MRI Near Metallic Implants** *MAGNETIC RESONANCE IN MEDICINE*
Sveinsson, B., Worters, P. W., Gold, G. E., Hargreaves, B. A.
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