

**Harvard Medical School
Curriculum Vitae**

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patel Brunilda Ramos-Perez bramos-perez@bwh.harvard.edu or (617) 732-8772

Education

1981	LRCP & SI, MB BAO BCh	Royal College of Surgeons, Dublin, Ireland
1994	Program in Clinical Effectiveness	Harvard School Public Health
2004	Master of Arts	Harvard Medical School

Postdoctoral Training

1981-1982	Intern	Flexible Internship, Surgery & Medicine	Richmond & St. Laurence Hospitals, Dublin, Ireland
1982-1984	Resident	Internal Medicine Residency	Federated Hospitals, Dublin, Ireland
1984-1988	Resident	Diagnostic Radiology	Loyola University of Chicago, IL
1988-1990	Fellow	Magnetic Resonance Imaging	Johns Hopkins Medical Institutions, Baltimore, MD

Faculty Academic Appointments

1990-1991	Assistant Professor	Radiology	Johns Hopkins University School of Medicine, Baltimore, MD
1991-1997	Assistant Professor	Radiology	Harvard Medical School, Boston,
1997-2004	Associate Professor	Radiology	Harvard Medical School, Boston,
2004-	Professor	Radiology	Harvard Medical School, Boston,
2017-	Ferenc Jolesz, MD Professor	Radiology	Harvard Medical School, Boston,

Appointments at Hospitals/Affiliated Institutions

1990-1991	Attending Staff Radiologist	Radiology	Johns Hopkins Hospital
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1990-1991	Attending Staff Radiologist	Radiology	Francis Scott Key Medical Center
1991-	Attending Staff Radiologist	Radiology	Brigham and Women's Hospital
1997-	Clinical Associate in Radiology	Radiology	Massachusetts General Hospital
2001-	Attending Staff Radiologist	Radiology	Dana-Farber Cancer Institute
2007-2017	Ferenc Jolesz Distinguished Chair	Radiology Research	Brigham and Women's Hospital

Major Administrative Leadership Positions

Local

1993-1997	Director, Body MRI		Brigham and Women's Hospital
1996-1999	Director, Radiology Technology Assessment Program		Brigham and Women's Hospital
1997-2006	Director, Clinical MRI		Brigham and Women's Hospital
1999-2003	Program Leader, DF/HCC Cancer Imaging Program		Dana-Farber/Harvard Cancer Center
2001-2003	Chair, Partners Radiology Research Committee		Partners Healthcare
2003-	Director, Clinical Focused Ultrasound Program		Brigham and Women's Hospital
2006-	Co-Director of the Imaging Platform of Brigham Research Institute		Brigham and Women's Hospital
2006-	Director, Clinical IGT/NCIGT/AMIGO Program		Brigham and Women's Hospital
2007-	Vice-Chair of Research Department of Radiology		Brigham and Women's Hospital
2008-2011	Co-Director, BWH Imaging Program		Harvard Catalyst/CTSC
2015-	Medical Director, AMIGO BWH		Brigham and Women's Hospital

Regional

1988-1991	Co-Director, MRI Educational Program		Johns Hopkins Medical Institution
1990-1991	Chair, Grand Rounds Department of Radiology		Johns Hopkins Medical Institution
1990-1991	Director, MRI Fellowship Program		Johns Hopkins Medical Institution
1990-1991	Chair, Quality Assurance Committee Division of MRI		Johns Hopkins Medical Institution
1990-1991	Associate Director, Division of MRI		Johns Hopkins Medical Institution
1991	Acting Director, MRI Division		Johns Hopkins Medical Institution

National and International

1990-1991	Chair, Education Committee		Maryland Radiological Society
2001-2004	Chair, CT/MRI Committee		American College of Radiology Imaging Network (ACRIN)
2010-2013	Board of Trustees member		ISMRM
2015-16	Chair, Nominating Committee		International Society of Magnetic Resonance in Medicine (ISMRM)
2015-17	Treasurer, Executive Committee and Board of Trustees		ISMRM

Committee Service

Local

1992-2003	Member, Residency and Fellowship Selection Committee		Brigham and Women's Hospital
1992-1993	Member, Medical Staff Orientation Committee		Brigham and Women's Hospital
1993-	Member, BWH MRI Safety Committee		Brigham and Women's Hospital
1995-	Member, Technology Assessment Committee		Brigham and Women's Hospital

1997-	Member, Clinical MRI Oversight Committee	Brigham and Women's Hospital
1999-2002	Member, The BWH Mentoring Program Committee	Brigham and Women's Hospital
1999-	Member, The BWH Radiology Research Council	Brigham and Women's Hospital
1999-2003	Member, Partners Radiology Research Committee	Brigham and Women's Hospital
2001	Member, Partners Oncology Service Line Planning Leadership Group	Brigham and Women's Hospital
2001-	Member, Committee on Mentoring-Scholars in Clinical Science Program	Harvard Medical School
2001-	Member, BWH Cancer Center Executive Committee	Brigham and Women's Hospital
2003-	Member, Clinical Research Planning Committee	Brigham and Women's Hospital
2004-	Member, Clinical Investigation Committee	Brigham and Women's Hospital
2005	Member, Partners Radiology Research Council	Brigham and Women's Hospital
2006	Member, Biomedical Research Institute Research Oversight Committee	Brigham and Women's Hospital
2007-2010	Member, Promotions and Reappointment Committee	Harvard Medical School
2008-	Chair, Ad Hoc Committee for a nominee for Professor of Radiology	Harvard Medical School
2009-	Member, Participant and Clinical Interaction Resource (PCIR) Committee	Brigham and Women's Hospital
2009-	Member, DF/BWH Cancer Center Radiology Steering Committee	Brigham and Women's Hospital
2009-	Women's Reproductive Health Research Career Development	Brigham and Women's Hospital
2010-11	Member, Chief of Urology Search Committee	Massachusetts General Hospital
2010	Member, Search Committee for Professor of Surgery and Chief of Urology Division	Brigham and Women's Hospital
2010-	Member, BRI Research Oversight Committee (ROC) Oversight Committee	Brigham and Women's Hospital
2013-	Member, Clinical Trials Review Committee	Dana-Farber Cancer Institute
2013-	Member, Executive Committee for Clinical Research	Dana-Farber Cancer Institute
2015-	Member, Personalized Medicine Committee Chair Jeff Golden, MD	Brigham and Women's Hospital
2016	Member, Chief of Neurointerventional Division Search Committee	Massachusetts General Hospital
2017	Member, Chief of Diagnostic Radiology DFCI Search Committee	DFCI/BWH
2018-2020	Member, Subcommittee of Professors (SOP)	Harvard Medical School
Regional		
1990-1991	Member, Imaging Fellowship Selection Committee	Johns Hopkins University
1998-2001	Member, Engineering Research Center - Center for Computer Integrated Surgical System and Technology	Johns Hopkins University
National and International		
2001-2004	Member, CT/MRI Committee	American College of Radiology Imaging Network (ACRIN)

2001-	Member, Advisory Board, G.E. Medical Systems Body MRI	General Electric Company
2005	Member, External Advisory Board, Image guided Therapy	General Electric Company
2006	Member, External Advisory Board, MR Imaging of Prostate	General Electric Company
2007	Member, Fellowship Selection Committee	Focused Ultrasound Surgery Foundation
2008	Member, Special Advisory Committee for Uterine Fibroids	Focused Ultrasound Surgery Foundation
2011-	Member, Data Safety and Monitoring Committee (DSMC)	ACRIN
2012-	Member, MR PI-RADS Steering Committee	American College of Radiology
2012-	Member, Data and Safety Monitoring Board DSMB	Eastern Cooperative Oncology Group (ECOG)-American College of Radiology Imaging Network or ECOG-ACRIN
2013-	Member, ASIST-DSMC Canada	Active Surveillance Magnetic Resonance Imaging-Data and Safety Monitoring Committee
2016-18	Member, TMIST Diagnostic Imaging Fall Data Safety and Monitoring Committee (DSMC)	ECOG-ACRIN
2018-	Member, Selection Committee for the Margulis Award for Scientific Excellence	Radiological Society of North America (RSNA)

Professional Societies

1985-	Member, Radiology Society of North America (RSNA)
1988-	Member, International Society of Magnetic Resonance in Medicine (ISMRM)
1990-	Member, American College of Radiology
1991	Faculty, Introduction to Research Seminar, AARS/AUR/RSNA
1991	Member, American Association of Women Radiologist
1991	Member, American Association of Women Radiologist
1991	Member, Stauffer Award Committee Association of University of Radiologists
1992	Faculty, New England Roentgen Ray Society
1995-2000	Member and Co-author, Professional Self Evaluation Committee
1996	Member, Society for Health Services Research in Radiology
1996-2000	Faculty, Improving Research Environment in Radiology Departments RSNA Workshop
1999	Scientific-Advisor, Research and Education Foundation
2001	Member, Panel on Urological Imaging, Appropriateness Criteria Committee
2003-2005	Member, ISMRM Workshop Committee
2004-2005	Member, Subcommittee on Student Stipends
2005-2008	Member, AMPC-Scientific and Education Committee
2010-	Member, Vice Chairs of Research Committee
2010-2017 (2 terms)	Elected Member, Board of Trustees
2010-2011	Member, Subcommittee on Trainee Stipends
2011-2012	Member, Affiliated Sections- ISMRT Committee
2012	Session Co-Moderator, 20 th ISMRM Meeting, Australia
2012	Chair, Nominating Committee
2013-2017	Treasurer, Board of Trustees ISMRM
2014-2017	Member, RSNA Committee on Scientific Affairs
2017-2018	Member, MR PI-RADS Steering Committee

Grant Review Activities

2003	BRTT Partnership Awards Proposal Review	Ohio Biomedical Research Society for Health Services Research in Radiology & Technology Transfer Commission Reviewer
2004	NIH Study Section NCI Review	NIH Ad Hoc Member
2006	NIH PAR 06-0406 in vivo Cellular and Molecular Imaging Centers Review	NIH Ad Hoc Member
2007-2011	NIH Medi Study Section Review	NIH Charter Member
2008	Harvard Catalyst Pilot Grants Review	Harvard Clinical and Translational Science Center Permanent Member
2009	Wellbeing of Women Research Grant Review	Ontario Institute for Cancer Research Reviewer
2010, 2012	ASIST Canadian Grant Review	ASIST Reviewer
2010-	Foundation for Focused Ultrasound Surgery Review	FFUS Reviewer
2013-	NIH Study Section Review IGT	Chair of Study Section
2014	Canada Foundation for Innovation (Medical Imaging) Review	CFI Reviewer
2015	Department of Defense Grant Review	DOD Reviewer
2015	Wellcome Trust, London Grant Review	Wellcome Trust Reviewer
2016	Canadian Foundation for Innovation Grant (CFI) Review	CFI Reviewer
2017	CFI Expert Committee Review (Medical Imaging)	CFI Chair of Review Committee
2018	NIH IDGG Study Section	Reviewer
2018	Cancer Research UK (CRUK) Science Committee Multidisciplinary Expert Review Panel	Reviewer

Editorial Activities

1992-	<i>Radiology</i>
1993	<i>American Journal of Roentgenology</i>
1995-	<i>Radiographics</i>
1996-	<i>Journal of Magnetic Resonance Imaging</i>
1997-	<i>The Lancet</i>
1997	<i>Mosby Yearbook</i>
1997-	<i>Cancer</i>
2000-2001	<i>The Prostate Journal</i>
2000-	<i>Urology</i>
2000-	<i>The Journal of Urology</i>
2001-	<i>Academic Radiology</i>
2002-	<i>Gynecologic Oncology</i>
2003	<i>Journal of the American College of Radiology</i>
2007-	<i>Magnetic Resonance in Medicine</i>
2010	<i>European Urology</i>
2010	<i>British International Journal of Urology</i>
2013	<i>International Journal of Computer Assisted Radiology and Surgery</i>

Other Editorial Roles

1997-2001	Associate Editor	The Prostate Journal
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2000-2001	Member of Editorial Board	The Prostate Journal
2001-2003	Consultant to Editor	Radiology
2007	Member of Editorial Board	Journal of Magnetic Resonance Imaging

Honors and Prizes

1975-1981	Honors: Biology, Pathology, Psychiatry, Pediatrics, Anesthetics, Medicine	Royal College of Surgeons, Dublin, Ireland
1977	Honors with Distinction: Biochemistry	Royal College of Surgeons, Dublin, Ireland
1980	Gold Medal & First Place: Obstetrics and Gynecology	Royal College of Surgeons, Dublin, Ireland
1991	Editor Recognition Award for Distinction: Reviewing	Radiology
1994-1996	Editor Recognition Award for Distinction: Reviewing	Radiology
1994-1996	Research Career Development Award	GE Radiology Research Academic Fellowship (GERRAF)
1995-1996	Special Distinction: Reviewing	Radiology
1995	Editor's Certification of Recognition: Reviewing	RSNA Scientific Exhibit
1995	Certificate of Merit: <i>Cum Laude</i> for RSNA Exhibit	RSNA Scientific Exhibit
1997	First Prize: <i>Right Ventricular Dysplasia: Evaluation of MRI Imaging Criteria</i> . Co-Authors: VL Ward, GT Sica, CM Tempany, KE Ellison, DF Adams	National Medical Association Section on Radiology
2001	Outstanding Student Paper Award to Andrew Tsai - <i>Model-based Curve Evolution Techniques for Image Segmentation</i> . Co-Authors: A Yezzi, WM Wells, CM Tempany, D Tucker, A Fan, E Grimson, A Willsky	IEEE Computer Society
2006	Edward M. Kennedy Award: Healthcare Innovation	CIMIT Image Guided Therapy Team
2010	Judah Folkman Prize: Clinical/Translational Science Research Award to Mentee - Shantanu Gaur - <i>Drug-eluting bead hepatic arterial chemoembolization in the treatment of carcinoid metastases to the liver</i> . Co-Authors: S Gaur, J Friese, CM Tempany, RA Baum	Harvard Medical School
2011	Partners in Excellence Award: Advanced Multi-modality Image Guided Operating (AMIGO) Room - Team Leaders: Clare Tempany, MD, and Ferenc A Jolesz, MD	Brigham and Women's Hospital
2012	Partners in Excellence Award: MRI Research Center Upgrade Team Member	Brigham and Women's Hospital
2013	Senior Fellow	International Society for Magnetic Resonance in Medicine (ISMRM)
2013	Distinguished Investigator Award	Academy of Radiology Research
2017	Fellow	American College of Radiology
2019	Recipient of the Jack Colbert Award	Massachusetts Prostate Cancer Coalition

Report of Funded and Unfunded Projects

Funding Information

Past

- 1988-1991 NIH/NCI: Radiology Diagnostic Oncology Group 2
National Diagnostic Imaging Trials - "CT/MRI of colorectal and pancreatic cancer"
Co-Investigator
- 1989 ICNMR: Johns Hopkins Medical Institutions
"Evaluation of the role of *in vivo* P31 spectroscopy in detecting intracellular pH and relative amounts of phosphorus-containing compounds in renal allografts as possible markers for allograft rejection"
PI Tempany
- 1989-1991 Department of Radiology Seed Grant: Johns Hopkins Medical Institutions
"Role of MRI in evaluating BPH in an animal model"
PI Tempany
- 1989-1991 MERCK Research Laboratories MK 906#024-01
"The influence of Finasteride on the volume of the peripheral zones of the prostate in men with benign prostatic hyperplasia"
Co-Investigator
- 1989-1991 NIH/NCI: RDOG I
"National Diagnostic Imaging Trial-MRI evaluation of body and endorectal coil in staging of prostate carcinoma"
PI Tempany
- 1991-1995 AH CPR (PI McNeil, BJ)
"Enhanced accuracy of MRI for staging prostate cancer"
Co-Investigator
- 1992-1996 NIH/NCI: RDOG4 (National PI Kurtz, A)
National Diagnostic Imaging Trial – "Ovarian Cancer"
Site PI Tempany
- 1994-1996 GE-AUR (GERRAF)
Research Career Development Award
PI Tempany
- 1996-1998 Advanced Magnetics, Inc.
"Phase III study of *Combidex*, as a magnetic resonance imaging agent for the evaluation of lymph node disease"
Co-Investigator
- 1997-2001 Schering Plough Medical Research
"Prognostic significance of endorectal MRI in predicting outcome after combined radiation and androgen suppression for prostate cancer: A prospective CALBG Phase II study"
PI Tempany
- 1998-1999 Epix Medical
"Phase II trial of breast MR contrast agent (MS 325)"

Co-Investigator

- 1998- 2001 Schering Plough Medical Research
“Computed volumetrics of the prostate gland and tumors: CALBG Phase II study”
PI Tempany
- 1998-2012 MR Guided Therapy (PI Jolesz) NIH/NCI, P01CA067165
Core PI of Prostate Core from 2008-2012
- 2000-2005 NIH/NCI 2P30 CA06516-37 (PI Nathan D)
Cancer Center Support Grant for the Cancer Imaging Program of the DF/HCC
Program Leader
- 2000-2005 NIH T32 CA09536
“Research training in imaging methods for cancer”
Co-Investigator
- 2001-2002 Boston Scientific
“Myomectomy vs. UAE trial. MRI evaluation of uterine leiomyomas”
Co-Investigator
- 2001- 2003 Whitaker Foundation Award (PI Noby Hata)
“Robot-assisted needle guidance system for MRI-guided prostate cancer”
Co-Investigator
- 2001-2004 InSightec
“MR-guided FUS of breast fibroadenomas”
PI Tempany
- 2001-2004 NIH/AG R01 AG19513
“MR guided prostate cancer diagnosis and brachytherapy”
PI Tempany
- 2001-2004 Novartis Pharmaceuticals
“Open-label pilot study of ST1571 prior to radical prostatectomy inpatient with newly
diagnosed prostate cancer”
Co-Investigator-Tempany
- 2000-2006 InSightec Inc.
Clinical Trial - “MR-guided FUS of uterine leiomyomas”
PI-Tempany
- 2003-2007 NIH R01 CA104976 NCI (PI Davatzikos)
“Target prostate biopsy using mathematical optimization”
Co-Investigator
- 2005-2008 NIH M01 RR02635
Brigham & Women’s Hospital General Clinical Research Center (GCRC)
Imaging Core Co-Leader-Tempany
- 2009-2011 AdMeTech/DOD, DAMD17-03-2-055
“Molecular Imaging of Prostate Cancer Research”
Site PI-Tempany

2008-2012 NIH/NCRR: UL1 RR025758-01, PI Lee Nadler
Harvard Clinical and Translational Science Center
Harvard Catalyst - Translational Imaging Consortium
Site Consultant

2009-2012 NIH R01 CA109246-01
"MR Guided Focused Ultrasound Surgery for Prostate Cancer"
PI-Tempany

2007-2013 NIH P01 CA067165, PI Ferenc A. Jolesz
"MR Guided Therapy" (PI Jolesz) NCE
Project Leader-Tempany

2011-2017 NIH R01 CA111288
"Enabling technologies for MR guided prostate interventions"
Bioengineering Research Partnership
PI-Tempany

2012-2017 NIH R01 CA160902
"Advancement and Validation of Prostate Diffusion and Spectroscopic MRI"
Co-Investigator

2013-2019 5 R25 CA089017-15 Co-Investigator
"Multidisciplinary Training Grant in Image Guided Therapy"
PI Fiona Fennessy, MD, PhD, Dana-Farber Cancer Institute/BWH

2014-2016 DPH 403516, Clinical Trial
"Multi-parametric (mp) MRI and PI-RADS Standardization for Improved Diagnosis of
Prostate Cancer"
PI: Tempany

2015-2018 NIH 1U01HD087211-01 114059 Co-Investigator
"Noninvasive real-time assessment of materno-fetal placental unit"
PI: Ellen Grant, MD, Children's Hospital

Current

2014-2021 InSightec-TxSonics, Ltd.
13-184, Focal MR-Guided Focused Ultrasound Treatment of Localized Low-Risk
Prostate Cancer: Feasibility Study.
PI: Clare Tempany-Afdhal, MD

2015-2020 Gilead Sciences, Inc.
CRSA: Gilead MRCP Image Analysis Trial
PI: Clare Tempany-Afdhal, MD

2015-2020 NIH P41 EB015898
National Center for Image Guided Therapy (NCIGT)
NIBIB PI and Prostate Core Leader "Image Guided Therapy Center"
PI: Clare Tempany-Afdhal, MD

2017-2019 ECOG-ACRIN Medical Research Foundation, Inc. [EA 8171]

“Multiparametric MRI (mpMRI) for Preoperative Staging and Treatment Planning for Newly-Diagnosed Prostate”

PIs: Robert Comis, MD, and Mitchell Schnall, MD, PhD, ECOG-ACRIN

2019-2024 NIH R01 CA232174-01A1 Investigator
“Pilot study of an implantable microdevice to test multiple drug responses in prostate cancer patients”
PI: Oliver Jonas, PhD, Brigham and Women’s Hospital

2019-2024 NIH T32 EB025823-01A1
“Training in Image Guidance, Precision Diagnosis and Therapy”
MPI: Fiona Fennessy, MD, PhD, and Clare Tempany-Afdhal, MD

Report of Local Teaching and Training

Teaching of Students in Courses

1994 Boston University Medical Campus
MRI of the Female Pelvis/Grand Rounds

1994 Mt. Auburn Hospital, Women’s Health Symposium
MRI of the Female Pelvis

1994 Dana-Farber Cancer Institute, Grand Rounds
MRI of Prostate Cancer

1994 Deaconess Hospital, Grand Rounds
MRI of Prostate Cancer

1994 Norwood Hospital, Grand Rounds
MRI of Prostate Cancer

1995 New England Roentgen Ray Society
MRI of the Female Pelvis

1996 Dana-Farber Cancer Institute
GU Oncology Grand Rounds

1996 Boston University
MRI of GYN Malignancy

1996 Massachusetts General Hospital, Grand Rounds
MRI of the Female Pelvis

1997 Mt. Auburn Hospital
Prostate MRI

1997 HCHP, Tumor Board Prostate MRI

1998 Boston University
MRI of the Pelvis

1998 Western Urological Society Fall Meeting
Prostate MRI

1999	Mt Auburn Hospital, Grand Rounds MRI of the Pelvis
2001	New England Roentgen Ray Society Women's Imaging: MRI and MR Guided Interventions
2003	Beth Israel Deaconess Medical Center Female Pelvis
2004	Yale University MR-Guided Focused Ultrasound of Uterine Fibroid
2005	New York University Hospital Translational Research in Image-guided Therapy
2006	Rhode Island Hospital MR-Guided Focused Ultrasound Surgery MR Imaging and MR-Guided Interventions in Prostate Cancer
2008	MIT, HST.563 Abdominal/Pelvis, Imaging Biophysics and Clinical Applications
2009	Biomedical Research Institute, BWH Making the Transition and Staffing Your Program/Moving to the Top: Establishing Your Research Program
2010	Beth Israel Deaconess Medical Center MR-guided HIFU in Abdominal/Pelvic Disease/Abdominal Imaging Section Lecture
2010	Abdominal/Pelvis, Imaging Biophysics and Clinical Applications HST.563, MIT
2011	New England Roentgen Ray Society MRI Prostate
2012	Massachusetts Prostate Cancer Coalition Annual Meeting MRI Prostate
2015	New England Roentgen Ray Society
2016	RCC-Harvard Medical Imaging Open House Imaging Innovations Image Guided Therapy
2017	Brigham and Women's Hospital Women's GYN Cancer Program (RSS33)

Clinical Supervisory and Training Responsibilities

Since joining the faculty at BWH, I have been a member of the Abdominal Imaging Group with a primary focus in body MRI. In 1991, I established the Prostate MRI service. In 1993, I became the director of body MRI, and from 1997 to 2006 I was then the director of clinical MRI. I established new programs in prostate and female pelvic and obstetrical MRI. I have trained multiple staff, fellows, and MR

technologists to support this MR clinical program. I was responsible for the management, productivity, and revenue enhancement for our MR fleet as it grew from 4 magnets to 12. This involved supervision of all technologists' inter-divisional oversight, quality control, and safety.

I now lead a NIH-funded team of investigators that pursues a wide range of clinical research projects in prostate cancer MR imaging, from pulse sequence development to outcomes research. We now have one of the largest clinical prostate and pelvic MR programs in the country with over 3,000 exams performed a year.

MR-guided prostate interventions. I established the first U.S. MR-(in-bore) guided prostate biopsy and MR guided prostate cancer brachytherapy programs. We have performed over 600 cancer treatments and over 700 biopsies to date. In 2010, we re-established this clinical program in the 3T wide bore magnet. In 2013, we performed the first MR guided cryotherapy for localized prostate cancer. I also direct the program in clinical MR-guided Focused Ultrasound Surgery (FUS). We treat women with uterine fibroids, men with prostate cancer, and patients with bone metastases. This program was the first clinical FUS program in the U.S. We developed, designed, and tested the first FDA-approved application for symptomatic relief of uterine fibroids. Today, it collaborates with over 10 other programs in the U.S. Since then, we have established multiple other MRgFUS programs in bone metastases (pain palliation) and essential tremor and focal prostate cancer ablation.

In 2015, I became the PI of the NCIGT and director of AMIGO at BWH. I now lead both programs and direct the clinical activities of AMIGO-now in its 6th year having treated over 1,300 patients with multidisciplinary teams of physician leaders and translational researchers.

Laboratory and Other Research Supervisory and Training Responsibilities

2001-present Supervisor/Leader of Prostate Research Group

Original and Current Members	Current Positions
Robert Cormack, PhD	Associate Professor of Radiation Oncology DFCI/BWH Radiation Oncology, MA
Steven Haker, PhD	Vanderbilt University
Robert Mulkern, PhD	Associate Professor of Radiology Children's Hospital-Boston, MA
William (Sandy) Wells, PhD	Professor of Radiology Brigham and Women's Hospital
Kelly Zou, PhD	Fellow, American Stat. Assoc. Accredited Prof. Statistician™; Sr. Dir. & Analytic Science Lead; Real World Data & Analytics (RWDnA); Patient & Health Impact (P&HI), Pfizer, NY
Stephan Maier, PhD	Associate Professor of Radiology Brigham and Women's Hospital
Mehdi Moradi, PhD	Manager/Scientist, Medical Image Analysis and Machine Learning Research @ IBM Almaden Research Center, CA
Ian Chan, PhD	Massachusetts Institute of Technology (MIT)
Anthony D'Amico, MD	Professor of Radiation Oncology DFCI/BWH Radiation Oncology, MA

Agnieszka Szot-Barnes, MD Minna J. (So) Kohler, MD	Unknown Director, Rheumatology Musculoskeletal Ultrasound Program, MGH, MA
Mark Hurwitz, MD Nathan McDannold, PhD	Unknown Professor of Radiology Brigham and Women's Hospital
Junichi Tokuda, PhD	Assistant Professor of Radiology Brigham and Women's Hospital
Robert Caughey, BS Joseph Roebuck, MD, PhD	Brigham and Women's Hospital Teleradiologist, Manatee Healthcare System, FL 2015 Masters Graduate, Worcester Polytechnic Institute, MA
Sarah Straus	Diagnostic Radiology, Lahey Hospital and Medical Center, MA
Jalil Afnan, MD, MRCS Fiona Fennessy, MD Yi (Jeffrey) Tang, MD	Associate Professor of Radiology, DFCI/BWH Radiologist, Henry Ford Health System, MI Radiologist, Keio University School of Medicine, Tokyo, Japan
Sota Oguro, MD Nobuhiko Hata, PhD	Professor of Radiology Brigham and Women's Hospital
Andriy Fedorov, PhD	Assistant Professor of Radiology Brigham and Women's Hospital Associate Professor, UCF Department of Mechanical Aerospace Engineering, FL
Sang Eun (Sam) Song Felipe Franco Lawrence Patrick Panych, PhD	Fellow, DFCI Radiology Associate Professor of Radiology Brigham and Women's Hospital
Thiele Kobus, MSc	Postdoctoral Research Fellow Biomedical MR Research Group, The Netherlands
Tobias Penzkofer, MD Fernando Yamauchi, MD Louise Greenberg, MEd Ruth Dunne, MD Daniel Glazer, MD	Staff Radiologist, Berlin, Germany Staff Radiologist, Brazil Clinical Trials Coordinator, Retired Consultant Radiologist, Beaumont Hsp, Dublin, Ireland Instructor in Radiology Brigham and Women's Hospital
Elmira Hassanzadeh, MD Peter Beckwith, BSc	Resident, Radiology, University of Illinois, IL Clinical Trials Coordinator Diagnostic Radiology Residency, University of Chicago, IL
Mehdi Taghipour Fard Ardekani, MD Parvin Mousavi, PhD Kyle MacNeil Elizabeth Randall, PhD	Visiting Research Scholar, Queens University, Canada Visiting Research Trainee, Queens University, Canada R25 Fellow (2017-19) R25 Fellow (2017-18) Research Fellow Children's hospital 2018-
Alireza Ziaei Torbati, MD Alireza Mehrtash Katarina Stephan Aida Kiviniemi, MD	PhD Graduate, Research Scientist, BWH Radiology 2018 and 2019 High School Summer Student Postdoctoral Research Fellow (Turku University Finland) Brigham and Women's Hospital
Björn Langbein, MD	Postdoctoral Research Fellow (Otto von Guericke University Magdeburg Germany)

Brigham and Women's Hospital

Formally Supervised Trainees Medical Students

1989	Karl Wolff	Johns Hopkins University Consultant Radiologist, SKG Radiology, Australia
1990	Fred Masoudi	Johns Hopkins University Cardiologist, University of Colorado Denver – Anschutz, Medical Campus, CO
2000-2004	Aditya Bharatha	University of Toronto Division Head of Neuroradiology, University of Toronto, Canada
2000-2004	Andrew Tsai	Harvard Medical School Pediatric Radiologist, Boston Children's Hospital, Boston, MA
2009	Shantanu Gaur	Harvard Medical School Co-founder and CEO, Allurion, MA
2011-2014	John V. Hegde	Harvard Medical School Radiation Oncology Resident, UCLA, CA
2012-2014	John Phillips	Harvard Medical School Radiation Oncologist, DFCI, MA
2015	Erik Velez	University of California, San Francisco Medical Graduate, University of California, San Francisco, CA

Radiology Clinical Research Fellows/JHU

1990	Alex Chacko	Johns Hopkins University Unknown
1990	Phyllis Frostenson	Johns Hopkins University Diagnostic Radiologist, Central Imaging of Arlington, TX
1990	Joseph Paravanno	Johns Hopkins University Board Certified Radiologist, NV
1990	Christian Herold	Johns Hopkins University Chairman, Department of Radiology, Medical University of Vienna, Austria
1990	Maria A. Cova	Johns Hopkins University Director of Diagnostic Imaging, Cattinara Radiology, University of Trieste Integrate Health Authority, Italy

1990	Akira Kawashima	Johns Hopkins University Genitourinary Radiologist, Mayo Clinic, AZ
1990	Alain Rahmouni	Johns Hopkins University Head of Medical Imaging Department, Henri Mondor Hospital, Paris, France
1990	Claudio Ricci	Johns Hopkins University Radiologist, Institutes of Radiology, University of Trieste, Italy
Urology Fellows/JHU		
1989	Ronald Morton	Johns Hopkins University Chief Surgical Officer, American Medical Systems, Boston Scientific, MA
1989	Alan Burnett	Johns Hopkins University Director, Basic Science Laboratory, Neuro-urology; Director, Male Consultation Clinic; Clinician-Scientist, James Buchanan Brady Urological Institute, IL
1989	Alan Partin	Johns Hopkins University Chairman, Department of Urology; Urologist-in-Chief, Johns Hopkins Medical Institutions, IL
OB/GYN Fellows/JHU		
1990	Joseph Wax	Johns Hopkins University Sr. Researcher, Division of Maternal Fetal Medicine, Maine Medical Center/Maine Health, ME
Radiology Residents/Fellows – BWH/Current Positions		
1992	Lawrence Schwartz	Chair, Department of Radiology Columbia University Medical Center, NY
1993	Julia Fielding	Chief, Department of Abdominal Imaging, UT Southwestern Medical Center, TX
1994	Oliver Pomeroy	Staff Radiologist, BWH, MA
1994	Ariane Neish	Radiologist, Children's Diagnostic Imaging, GA
1995	Richard Tello	Deceased
1995	Vivek David	Radiologist, Tysons Corner Diagnostic Imaging, VA
1996	Susan Teeger	Radiologist, Midtown East, NY
1997	Lawrence Steinbach	Staff Radiologist, East Side Attleboro, MA
1998	Mark Pugach	Director, Next Generation Radiology, NY

1999	Jeffrey McTavish	Staff Radiologist, Sentara Virginia Beach General Hospital, VA
2000	David Cheng	Staff Radiologist, Advanced Radiology and Open MRI of New England, RI
2001	Vikas Kundra	Faculty Radiologist Director of Molecular Imaging MD Anderson Cancer Center, TX
2001	Maricela Contreras	Department of Radiology, Madigan Army Medical Center, WA
2002	Mark Fruitman	Staff Radiologist, St. Joseph's Hospital, Toronto, Canada
2003	Fiona Fennessy	Faculty Radiologist & Senior Physician; Cancer Imaging Program Fellowship Director, DFCI/BWH, MA
2003-2004	Syed Akbar	Staff Radiologist, Abdominal Imaging, Rush-Copley Medical Center, IL
2003-2004	Ramit Lamba	Staff Radiologist, Abdominal Imaging, UC Davis Medical Center, CA
2003-2004	Nikhil Ramaiya	Clinical Director, MRI, Abdominal Imaging, DFCI, MA
2003-2004	Servet Tatli	Radiologist, Department of Emergency and Hospital Medicine, Lehigh Valley Health Network, PA
2003-2004	Idelisa Torres-Berastain	Radiologist, Advanced Technology Radiology, FL
2004	Noushin Vahdat	Associate Staff, Diagnostic Radiology, Cleveland Clinic, OH
2004-2005	Carina Briggs	Staff Radiologist, University of Kentucky Medical Center, KY
2004-2005	Victoria Clague	Staff, Abdominal Imaging, Kaiser Permanente Medical Group, CA
2004-2005	Rashmi Nair	Staff, Abdominal Imaging, UK Health Care University of Kentucky, KY
2004-2005	Desencia Thomas	Faculty Radiologist, Southwestern Medical School, University of Texas, TX
2004-2006	Rahul Gupta	Staff Radiologist, Emory Radiology Clinic, GA
2004-2007	Raquel Oliva Alencar	Faculty Radiologist & Head, GI Fluoroscopy Abdominal Imaging and Intervention, BWH, MA

2005-2006	Munazza Anis	Staff Radiologist, Medical University of South Carolina, SC
2005-2006	Jeffrey Girshman	Radiologist, Manhattan Diagnostic Radiology, NY
2005-2006	Vincent Pelsser	Staff Radiologist, Jewish General Hospital, Montreal, Canada
2006-2007	Chris Sidden	Staff Radiologist, Emcare, TX
2006-2007	Frederico Souza	Director of Body Imaging Division, University of Mississippi Medical Center, MS
2006-2007	Wendy Landman	Faculty Radiologist, BWH, MA
2006-2007	Sejal Shah	Faculty Radiologist, Emergency Radiology, Beth Israel Deaconess Medical Center, MA
2007-2008	Lindsay Pearce	Staff Radiologist, Beverly Radiology Assoc., MA
2007-2008	Girish Raghunathan	Staff Radiologist, BWH, MA
2007-2008	Tatiana Rocha	Emergency Radiology, BWH, MA
2007-2008	Vikram Sahni	Faculty Radiologist & Associate Director, Abdominal Imaging and Intervention; Director, Abdominal and Pelvic MRI, BWH, MA
2007-2008	Shane Wheeler	Diagnostic Radiologist, Body Imaging, Radiology Imaging Associates, CO
2007-2008	Atif Zaheer	Associate Program Director, Diagnostic Radiology Residency; Diagnostic Radiology, John Hopkins Hospital, MD
2008-2009	Alicia Arnold	Radiologist, Private Practice, WI
2008-2009	Michael Baldwin	Pediatric Radiologist, Boston Children's Hospital, MA
2008-2009	Raul Galvez Trevino	Pediatric Radiologist, Valley Radiologist Ltd., AZ
2008-2009	Angela Tai	Radiologist, Abdominal Imaging, St. Paul, MN
2008-2009	Pieter Baeyens	Abdominal Radiologist, BWH, MA
2008-2009	Errol Colak	Faculty Radiologist, St. Michael's Hospital, Toronto, Canada
2008-2009	Fadi Habbab	Faculty Radiologist, McGill University, Montreal, Canada

2008-2009	Tereza Poghosyan	Radiologist, Thoraco-abdominal Imaging, GI and GU Imaging, Image-Guided Interventions and Breast Imaging, Valley Radiology, NC
2008-2009	Margarita Revzin	Diagnostic Radiologist, Private Practice, CT
2008-2009	Nisha Sainani	Assistant Professor of Radiology, Abdominal Imaging and Intervention, BWH, MA
2010-2011	Dellano Fernandes	Staff Radiologist, Royal Inland Hospital, BC, Canada
2010-2011	Michael Hutchinson	Radiologist, Aurora Radiology Consultants, IL
2010-2011	Sunny Jaiswal	Faculty Radiologist Abdominal Radiologist, Ohio State University Medical Center, OH
2010-2011	Albert Parladé	Faculty Radiologist, Cleveland Clinic, FL
2010-2011	Atul Shinagare	Faculty Radiologist, BWH/DFCI, MA
2010-2011	Elliot Wasser	Faculty Radiologist, Cleveland Clinic, FL
2012-2017	Ruth Dunne, MD	Consultant Radiologist, Beaumont Hospital, Dublin, Ireland
2012-2013	Loraine Wu, MD	Radiologist, Informaticist, Healthcare Innovator, DC
2012-2013	Ayaz Aghayev, MD	Faculty Radiologist, Section of CV Imaging BWH, MA
2012-2013	Vinit Khanna, MD	Faculty Radiologist, University of Rochester Medical Center, NY
2012-2013	Ryan Muller, MD	Diagnostic Radiologist, MedStar Health, MD
2012-2013	Karl Sayegh, MD	Director, Cardiac CT, McGill University, Montreal, Canada
2012-2013	Santosh Selvarajan, MD	Faculty Radiologist, Thomas Jefferson University Hospitals, PA
2013-2014	Mark Robbins, MD	Radiologist; Founding Partners, American Radiology Technologies (ART), FL
2013-2014	Jeremy Duda, MD	Radiologist, Central Maine Medical Center, ME
2013-2014	Edward Harter, MD	Radiologist, OSF St. Anthony's Health Center, IL
2013-2014	Gevork Mnatzakanian, MD	Faculty Radiologist, St. Michael's Hospital, Toronto, Canada
2013-2014	Jonathan Scalera, MD	Faculty Radiologist, Boston Medical Center, MA

2013-2014	Karen (Shoebbotham) Salmieri, MD	Faculty Radiologist, University Radiology Group, NJ
2013-2014	Sophie Tremblay-Paquet, MD	Faculty Radiologist, CIUSSS Saguenay/Lac-Saint-Jean, Quebec, Canada
2014-2015	Daniel Glazer, MD	Instructor in Radiology, Head of Abdominal and Pelvic CT, Abdominal Imaging Division, BWH, MA
2015-	Sharath Bhagavatula, MD	Radiology Resident on Clinician Scientist Pathway, BWH, MA
2015-	Jeffrey Guenette, MD	Radiology Resident on Clinician Scientist Pathway, BWH, MA
2017-	Elizabeth George, MD	Radiology Resident on Clinician Scientist Pathway, BWH, MA
2016-17	Rory O'Donohue, MD	Radiology Fellow, BWH, MA

Surgical Planning Laboratory/Grant-funded Students, Research Fellows

1999	Husain Dumanli, MD	Staff Radiologist, Turkey Department of Radiology, Zekai Tahir Burak Women's Health Education and Research Hospital, Turkey
1999	Andreas Schreyer, MD	Staff Radiologist, Germany Science Directorate, ESS; Chair, ICB; co-Proposer, BEER, Germany
1999	Masa Jinzaki, MD	Staff Radiologist, Japan Department of Diagnostic Radiology, Keio University School of Medicine, Japan
2000	Masanori Hirose, MD	Staff Radiologist, Japan Department of Radiology, School of Medicine, Showa University, Japan
2000	Aditya Bharatha	Medical Student, Canada Department of Medical Imaging, Neuroimaging Div., St. Michael's Hospital, University of Toronto, Canada
2001	Jian Qing Zhang, MD	Research Fellow, China Department of Radiology, First Hospital of Wenzhou Medical College, China
2001	Ian Chan	Masters Student, MIT, MA

		Co-founder, Abpro now IELab, MA
2002	Agnieszka Szot-Barnes, MD	Research Fellow, Poland
2005	Philip Blumenfeld	Medical Student, NY Resident Physician, Department of Radiation Oncology, Rush University Medical Center, IL
2006	Patrick Wong	Medical Student, Canada CHUM, Canada
2008	Shu-Huei Shen, MD	Research Fellow, Taiwan Department of Radiology, Taipei Veterans General Hospital, Taiwan
2009-12	Ronit Machtiger, MD	OB/GYN Attending, Israel Sr. Physician, IVF Unit, Department of OB/GYN, Sheba Tel Hashomer Medical Center, Israel
2010	Felipe Boschini Franco	Medical Student, Brazil School of Medicine of University of Sao Paulo, Brazil
2012-13	Tobias Penzkofer, MD	Radiologist, Germany Charite – University Medicine, Berlin, Germany
2014-15	Elmira Hassanzadeh, MD	Research Fellow, Iran Surgery Resident, University of Illinois College of Medicine, IL
2015-	Lisanne Kok	Research Fellow, The Netherlands Student Medical Engineering, Department of Biomedical Engineering, University of Technology, Eindhoven, The Netherlands

Image Guided Therapy R25 Training Grant Fellows

2002	Vasu Brown, MD	Fellow in IGT and Web Media Founder, HollistonMD.com, Wound and Pain Management, MA
2002	Michele Albert, MD	Fellow in IGT and Radiation Oncology Radiation Oncologist, Saint Anne's Hospital Regional Cancer Care, MA
2003	Minna So Kohler, MD	R25 Fellow in IGT Director of the Rheumatology Musculoskeletal Ultrasound Program, MGH; Co-director, Pilot Point- of-Care Ultrasound Curriculum, HMS, MA

2004	Agnieszka Szot-Barnes, MD	R25 Fellow in IGT
2004	Alexandra Stewart, MD	R25 Fellow in IGT/Radiation Oncology Consultant Oncologist, Royal Surrey County Hospital, UK
2005-2007	Alisa Suzuki-Han, MD	R25 Fellow in IGT Interventional Radiology Specialist, Southern California Permanente Medical Group, CA
2005-2007	Joseph Roebuck, MD	R25 Fellow in IGT Radiologist, University of Texas, Medical Branch, TX
2006-2007	Richard Gessman, MD	R25 Fellow in IGT Radiologist, XRA Medical Imaging, NY
2006-2008	Jeremy Friese, MD	R25 Fellow in IGT Co-founder and Chairman, Evidentia Health, Inc., MN
2007-2009	Jalil Afnan, MD	Fellow in IGT Physician, Lahey Hospital and Medical Center, MA
2008-	Sota Oguro, MD	Fellow in IGT Researcher, Department Radiology, Keio University, Japan
2008-2009	Balazs Lengyel, MD	R25 Fellow in IGT Surgery Administrator, Westchester Medical Center, WMC Health, AZ
2008-2010	Caleb Farny, PhD	R25 Fellow in IGT Professor, College of Engineering, Boston University, MA
2008-2009	Phillip Jason White, PhD	R25 Fellow in IGT Assistant Professor of Radiology, Focused Ultrasound Lab, BWH, MA
2009-2010	Rivka Colen, MD	R25 Fellow in IGT Co-director, Quantitative Imaging Analysis Core; Department of Diagnostic Radiology, Division of Diagnostic Imaging; Head, Cancer Genome Atlas (TCGA) Imaging-Genomic Projects, University of Texas MD Anderson Cancer Center, TX
2009-2010	Giovanna Danagouliau, PhD	R25 Fellow in IGT Senior Scientist, Buckler Biomedical Sciences LLC, MA
2009-2010	Lauren O'Donnell, PhD	Assistant Professor of Radiology

		Researcher, Surgical Brain-Mapping and Lab of Mathematics in Imaging, BWH/HMS, MA
2010-2011	Scott Hoge, PhD	Instructor in Radiology Researcher, Lab of Mathematics in Imaging, BWH/HMS, MA
2013-2015	Pelin Ciris, PhD	R25 Fellow in IGT Researcher, Medical Imaging, Magnetic Resonance Imaging, Akdeniz University, Turkey
2015-2016	Melissa Mallory, MD	R25 Fellow in IGT Department of Surgery, DF/BW Cancer Center, MA
2015-2016	Daniel Glazer, MD	R25 Fellow in IGT Diagnostic Radiologist, Head of Abdominal and Pelvic CT, Abdominal Imaging Division, BWH, MA
2015-2016	Farzad Sedaghat, MD	R25 Fellow in IGT Abdominal Imaging Fellow, BWH, MA

Research Doctoral Students

1998-2006	Andrew Tsai	Massachusetts Institute of Technology Pediatric Radiologist, Boston Children's Hospital, MA
2001-2003	Ian Chan	Massachusetts Institute of Technology Co-founder, Abpro now IELab, MA
1999-2002	Elizabeth Kim	Massachusetts Institute of Technology Doctoral Student, UC Irvine, CA
2011-2013	Hao Su	Worcester Polytechnic Institute Research Scientist, Philips Research, NY
2015-	Peter A. Behringer	University of Lübeck, Germany Now: Product Market Manager Medical, Basler AG; Co-founder, Edison Glow, Germany
2015-2016	Christian Herz	University of Lübeck, Germany Research Fellow, BWH, MA

Post Doctoral Fellows/BWH

1999	Nobuhiko Hata, PhD	Director, Surgical Navigation and Robotics Lab; Core Lead, Guidance Project, National Center for Image-Guided Therapy, BWH, MA
2000	Steven J. Haker, PhD	Department of Radiology, Children's Hospital, Boston, MA
2000	Robert A. Cormack, PhD	Associate Professor of Radiation Oncology, BWH/DFCI/HMS, MA

2007	Junichi Tokuda, PhD	Assistant Professor of Radiology, OpenIGT Link; Project Co-Lead, Prostate Core, NCIGT; Guidance Core, NCIGT; Team-player, MRI-Guided Transperineal Prostate Robot Project; Surgical Navigation and Robotics Lab, BWH, MA
2008	Haytham Elhawary, PhD	Co-founder and CEO of KINETIC, a wearable device company, NY
2014-2015	Elmira Hassanzadeh, MD	Tehran University of Medical Sciences, Tehran, Iran Clinical Resident, Department of Surgery/ Radiology, University of Chicago Medicine, IL
2015-2016	Mehdi Taghipour Fard Ardekani, MD	Johns Hopkins University Medical Institutions, MD Research Fellow, BWH, MA

Faculty

1997	Mitchell Rein, OB/GYN	Chief Medical Officer/Sr. V.P. Medical Affairs NSMC; Associate Gynecologist and Obstetrician, MGH; Chairman, MGH/North Shore Quality Committee, MA
1998	Julian Robinson, OB/GYN	Department of Obstetrics & Gynecology, BWH, MA
1999	Lore Schierlitz, OB/GYN	Honorary, Obstetrics and Gynecology, Royal Women's Hospital/Mercy, University of Melbourne, Australia
2000	Sara M. Durfee, MD	Radiologist, BWH, MA
2001	Ramin Khorasani, MD	Professor of Radiology, BWH, Boston, MA
2003	Steven J. Haker, PhD	Department Radiology, Children's Hospital, Boston, MA
2002	Fiona Fennessy, MD, PhD	Associate Professor of Radiology, Cancer Imaging Program Fellowship Director, DFCI/BWH; Project Co-Lead, Prostate Core, NCIGT, BWH, MA
2011	Mizuki Nishino Hatabu, MD	Staff Radiologist, DFCI/BWH, MA
2012	Ritu Gill, MD Radiology	Associate Radiologist; Beth Israel Deaconess Medical Center, MA
2014-	Bharti Khurana, MD	Assistant Professor of Radiology, BWH, MA
2014-	Krisztina Fischer, MD	Assistant Professor of Radiology, BWH, MA
2014-	Jayender Jagadeesan, PhD	Assistant Professor of Radiology, BWH, MA

2014-2017	Ehud J. Schmidt, PhD	Associate Professor, Department of Medicine-Cardiovascular, Johns Hopkins Medical Institutes, Baltimore, MD
2012-2017	Ruth Dunne, MD	Consultant Radiologist, Beaumont Hospital, Dublin, Ireland

Formal Teaching of Peers (e.g., CME and other continuing education courses)

1988-1992	Principles and Practice of MRI Course <i>MRI of Male Pelvis & MRI of Female Pelvis</i> Johns Hopkins University
1992	MRI/CT Update Postgraduate Course <i>MRI of Male Pelvis & MRI of Female Pelvis</i> BWH/HMS
1993-1995	MRI/CT Update Postgraduate Course <i>MR Prostate</i> BWH/HMS
1994-1997	Women's Diagnostic Imaging Course <i>Pelvic MRI</i> Brigham and Women's Hospital
1995	MRI Clinical Update & Advanced Applications Course <i>MRI of the Abdomen; MRI of Male Pelvis/MRI of the Female Pelvis; MRI of the Breast</i> Harvard Medical School
1996	MRI Clinical Update & Advanced Applications Course <i>MRI of the Infertile Patient; Update on Breast MRI; MRI of Pelvic Neoplasms in Female Patient</i> Harvard Medical School
1996-1998	Urologic Cancer Course <i>MRI of the Prostate</i> Harvard Medical School
1996	MRI/CT Update Postgraduate Course <i>MRI of the Female Pelvis; MRI of the Prostate</i> BWH/HMS
1997-1998	MRI/CT Update Postgraduate Course <i>MRI of Prostate; MRI of Female Pelvis; Malignant & Benign</i> BWH/HMS
1998	MRI Clinical Update & Advanced Applications Course <i>MRI of the Female Pelvis; MRI of the Breast</i> Harvard Medical School
1999	MRI Clinical Update & Advanced Applications Course <i>MRI of the Female Pelvis; MRI of the Male Pelvis; MRI of the Liver and Adrenals</i> Harvard Medical School
1999-2000	MRI/CT Update Postgraduate Course <i>MRI of the Female Pelvis; MRI of the Prostate</i>

BWH/HMS

2000 MRI Clinical Update & Advanced Applications Course
MRI of the Female Pelvis; MRI of the Breast
Harvard Medical School

2001-2006 Radiology Review
Pelvic CT/MRI
BWH/MGH

2001-2002 Ultrasound/Women's Imaging
MRI in Obstetrics
Brigham and Women's Hospital

2001 MRI/CT Update Postgraduate Course
MR Imaging & Guided Interventions in the Prostate; MR of Malignant Disease of Female Pelvis
BWH/HMS

2002-2003 Annual Symposium on Prostate Cancer
Brigham and Women's Hospital

2002 MRI Clinical Update & Advanced Applications Course
MR Female Pelvis; MRI of Prostate; MRI of Renal and Adrenal
Harvard Medical School

2002 Urologic Cancer Course
Prostate Cancer; MRI for Biopsy and Staging
Harvard Medical School

2002 MRI/CT Update Postgraduate Course
MRI of the Male Pelvis
BWH/HMS

2002 SAWI Symposium
MRI of Cervical Cancer
Boston MA

2003 MRI Clinical Update & Advanced Applications Course
MRI of the Female Pelvis; Prostate MRI; MR Guided Interventions in the Pelvis
Harvard Medical School

2003 *Female Pelvis*
Beth Israel Deaconess Medical Center

2003-2005 MRI/CT Update Postgraduate Course
Prostate MRI
BWH/HMS

2004 MRI Clinical Update & Advanced Applications Course
MRI of the Female Pelvis; Benign Diseases & MR of the Male Pelvis; MR-guided Interventions in the Pelvis
Harvard Medical School

2004 Practical Applications of Imaging Techniques
Benign Diseases of the Uterus; Cancer Staging of Gynecologic Disease; Focused Ultrasound and Fibroid Treatment; MRI of Pregnancy
Harvard Medical School

2004-2008 Urologic Cancer Course

- MRI for Biopsy and Staging*
Harvard Medical School
- 2005 MRI Clinical Update & Advanced Applications Course
Prostate Imaging; Female Pelvis & Ovary
Harvard Medical School
- 2005-2007 MR Sequences: Pelvis
Male Pelvis; Case Review: Pelvis Practical MR Imaging of the Abdomen and Pelvis
Harvard Medical School
- 2006 MRI Clinical Update & Advanced Applications Course
MRI of the Abdomen; MRI of the Male Pelvis/MRI of the Female Pelvis; MRI of the Breast
Harvard Medical School
- 2007 MRI Clinical Update & Advanced Applications Course
MRI of the Abdomen; MRI of Male Pelvis/MRI of the Female Pelvis; MRI of the Breast
Harvard Medical School
- 2008-2009 MRI/CT Update Postgraduate Course
MRI of the Prostate Gland
BWH/HMS
- 2009 MRI Clinical Update & Advanced Applications Course
MR of Female Pelvis-Benign Disease; MRI of the Female Pelvis-Malignant Disease; Prostate MR Role in Detection/Surveillance and Treatment; Image Guided Therapy: Emphasis on MR Guided Focused Ultrasound
Harvard Medical School
- 2009 MR Sequences: Pelvis
Prostate; Practical MR Imaging of the Abdomen and Pelvis
Harvard Medical School
- 2010 MRI Clinical Update & Advanced Applications Course
MR of Female Pelvis-Benign Disease; MRI of the Female Pelvis-Malignant Disease; MR-guided Interventions in the Pelvis; MRI for Diagnosis & Staging of Prostate Cancer
Harvard Medical School
- 2010 MR Sequence: Pelvis
Practical MR Imaging of the Abdomen and Pelvis
Harvard Medical School
- 2010 15th Biennial Urologic Cancer Course
MRI for Biopsy and Staging
Harvard Medical School
- 2011 Practical MR Imaging of the Abdomen and Pelvis Postgraduate Course
MR Sequence: Pelvis; Female Pelvis: Malignant Diseases
BWH/HMS
- 2011 Overview of Clinical Imaging Modalities
CTSA Biomarkers and Imaging in Drug Development Course
Harvard Medical School
- 2012 16th Biennial Urologic Cancer Course

Advances in Multiparametric MRI for Diagnosis and Staging/Panel Discussion
Harvard Medical School

- 2012 Practical MR Imaging of the Abdomen and Pelvis MRI/CT Update Postgraduate Course
MR Sequence: Pelvis; Female Pelvis: Malignant Diseases
BWH/HMS
- 2012 Division of Reproductive Endocrinology and Infertility Seminar Series
GYN Lecture – Radiologic Ablation of Fibroids
Brigham and Women’s Hospital
- 2013 Harvard Catalyst Imaging Program
Imaging in Clinical Translational Cancer Research
BWH/HMS
- 2014 Abdominal Imaging and Intervention Lecture Series
MR Fibroids
Brigham and Women’s Hospital
- 2014 17th Biennial Urologic Cancer Course
Advances in Multiparametric MRI for Diagnosis and Staging and Panel Discussion
Harvard Medical School
- 2014 MRI/CT Update Course
MRI of the Prostate
Brigham and Women’s Hospital
- 2015 Radiology Postgraduate Radiology Review
MR Prostate
Brigham and Women’s Hospital
- 2016 18th Biennial Urologic Cancer Course
Advances in Multiparametric MRI for Diagnosis and Staging and Panel Discussion
Harvard Medical School
- 2018 Radiology Postgraduate Radiology Review
MR Prostate
Brigham and Women’s Hospital

Local Invited Presentations

- 1994 Boston University Medical Campus Grand Rounds
MRI of the Female Pelvis
Boston, MA
- 1994 Mt. Auburn Hospital Women’s Health Symposium
MRI of the Female Pelvis
Cambridge, MA
- 1994 Dana-Farber Cancer Institute Grand Rounds
MRI of Prostate Cancer
Boston, MA
- 1994 Deaconess Hospital Grand Rounds

- MRI of Prostate Cancer*
Boston, MA
- 1994 Norwood Hospital Grand Rounds
MRI of Prostate Cancer
Norwood, MA
- 1995 New England Roentgen Ray Society
MRI of the Female Pelvis
Waltham, MA
- 1996 GU Oncology Grand Rounds Prostate MRI
Dana-Farber Cancer Institute, Boston, MA
- 1996 Boston University Grand Rounds
MRI of GYN Malignancy
Boston, MA
- 1996 Massachusetts General Hospital Grand Rounds
MRI of the Female Pelvis
Boston, MA
- 1997 Mt Auburn Hospital Grand Rounds
Prostate MRI
Cambridge, MA
- 1997 HCHP Tumor Board
Prostate MRI
Boston, MA
- 1998 Boston University Grand Rounds
MRI of the Pelvis
Boston, MA
- 1998 Western Urological Society Fall Meeting
Prostate MRI
- 1999 Mt. Auburn Hospital Grand Rounds
MRI of the Pelvis
Cambridge, MA
- 2001 New England Roentgen Ray Society
Women's Imaging: MRI & MR Guided Interventions
Waltham, MA
- 2004 Yale University Grand Rounds
MR-Guided Focused Ultrasound of Uterine Fibroid
New Haven, NJ
- 2005 New York University Hospital Grand Rounds
Translational Research in Image-guided Therapy
New York, NJ

- 2006 Rhode Island Hospital Grand Rounds
MR-Guided Focused Ultrasound Surgery MR Imaging; MR-Guided Interventions in Prostate Cancer
Providence, RI
- 2009 Making the Transition and Staffing Your Program
Moving to the Top: Establishing Your Research Program
Biomedical Research Institute, Brigham and Women's Hospital, Boston, MA
- 2010 Abdominal Imaging Section Lecture
MR-guided HIFU in Abdominal; Pelvic Disease
Beth Israel Medical Center, Boston, MA
- 2011 New England Roentgen Ray Society
MRI Prostate
Waltham, MA
- 2011 3rd Annual Prostate Cancer Awareness Day
Prostate imaging "where is our Manogram"
Massachusetts State House, Boston, MA
- 2012 15th Annual Massachusetts Prostate Cancer Symposium
Massachusetts Prostate Cancer Coalition Annual Meeting
Prostate imaging "where is our Manogram"
Boston, MA
- 2014 Radiology Grand Rounds
Prostate MRI
South Shore Hospital, South Weymouth, MA
- 2015 Methods in Clinical Research Course
Imaging in Era of Targeted Therapy
Dana-Farber Cancer Institute, Boston, MA
- 2015 Spring Oncology Symposium
Prostate MRI and image guided interventions
Saint Anne's Hospital, Dartmouth, MA
- 2015 BWH, MGH-Urologic Oncology Conference
Multi-parametric MRI -PIRADS Classification
Boston, MA
- 2015 DFCI-Seminar of Genitourinary Oncology
Prostate MR Update Including New PIRADS
Boston, MA
- 2016 BWH GYN Oncology Series
MRI characterization and staging of GYN malignancies
Boston, MA
- 2016 BWH/MGH Radiology Update Postgraduate Course
Prostate Imaging and PI-RADS
Boston Marriott Long Wharf, Boston, MA

- 2016 HMS Seminars in Genitourinary Oncology
MR Prostate and PIRADS
Boston, MA
- 2016 HMS 18th Biennial Jerome P. Richie Biennial Urologic Cancer Course
Advances in Multiparametric MRI for Diagnosis and Staging
Panel Discussion and Q&A - Prostate Cancer: Epidemiology and Optimizing Detection
Boston, MA
- 2017 2nd Global Summit on Precision Diagnosis for Prostate Cancer Care
Precision Imaging and Focal Treatment
Boston, MA
- 2017 MPCC Prostate Cancer 20th Anniversary Symposium
"Prostate Cancer State of the Art - State of the Disease"
Active Surveillance and Early Stage Disease
Boston, MA
- 2018 HMS 19th Biennial Jerome P. Richie Biennial Urologic Cancer Course
Advances in Multiparametric MRI for Diagnosis and Staging
Panel Discussion and Q&A - Prostate Cancer: Epidemiology and Optimizing Detection
Boston, MA

Report of Regional, National and International Invited Teaching and Presentations

Invited Presentations and Courses

Regional

- 1995 Women's Imaging Symposium
MRI of Gynecological Malignancies
Norwalk Hospital, Norwalk, CT
- 1996 Albany Medical Center Grand Rounds
MRI of the Female Pelvis
Albany, NY
- 2007 African American Prostate Cancer Disparity Summit
Rayburn House, Washington DC
- 2008 18th Annual Robin C. Watson Lecture
Image Guided Intervention: Where Can the Future Lead?
Memorial Sloan-Kettering Cancer Center, New York, NY
- 2008 Boston Children's Hospital Faculty Research Talk/Grand Rounds
Overview of the Recent Advances; Future Vision for Image-Guided Diagnosis and Treatment of Cancer
Boston, MA
- 2008 Genitourinary Oncology Seminar Series
Prostate Imaging and Intervention Update
Dana-Farber Cancer Institute, Boston, MA
- 2008 CIMIT-ORF and Beyond Team
Glimpse at future imaging technologies and their role in surgery

- Boston, MA
- 2012 NIH-NCBC Showcase Meeting
Testimonial Speaker
National Institutes of Health, Bethesda, MD
- 2013 Harvard Catalyst–Advanced Imaging: Imaging in Clinical/Translational Cancer Research
Image-guided Therapy
Cambridge, MA
- 2013 Boston Scientific
Visualization for Surgical Applications
Marlborough, MA
- 2013 3rd Governance Board Meeting
Canon-BWH Collaboration
Cambridge, MA
- 2013 Physical Principles of Human Cancer Imaging Workshop
Interventionalist Perspective
Cambridge, MA
- 2014 BWH Research Day
Latest Developments in Generating the Imaging Phenotype
Session Theme: Imaging, Session Title: A picture is worth a thousand words.
Boston, MA
- 2015 Mass. Medical Society Body MRI, NERRS Annual Refresher Course
MRI of the Prostate
Waltham, MA
- 2017 First Joint Center for Surgical Innovations & National Center for Image Guided Therapy
Boston, MA
- 2017 MPCC Prostate Cancer 20th Anniversary Symposium
Prostate Cancer State of the Art – State of the Disease
Boston, MA
- 2017 Robo Healthcare Summit
Boston, MA
- 2017 2017 American Brachytherapy Society Annual Conference
Boston, MA
- 2017 Invited Faculty, World Interventional Oncology Conference
Boston, MA
- 2019 Invited Lecturer, 2nd Annual Erich K. Lang, M.D. Lecture, Russell H. Morgan Department
of Radiology and Radiological Science
Baltimore, MD (2/7/19)
- 2019 Invited Lecturer, Adamczyk Lecture, Case Western Reserve University, Department of
Biomedical Engineering

Image guided Therapies: An Opportunity for Team Science and Clinical Translational Research

Cleveland, OH (4/24/19)

- 2019 Invited Lecturer, 45th Eugene P. Pendergrass Lecture, Pendergrass Day Symposium & Dinner Dance, Department of Radiology, University of Pennsylvania, Perelman School of Medicine
Advanced Technologies for Image-Guided Therapy
Philadelphia, PA (6/14/19)

National

- 1991 Loyola University Medical Center Grand Rounds
Clinical MRI
Chicago, IL
- 1995 University of Pennsylvania MRI Course
MRI of the Abdomen, Male Pelvis, Female Pelvis & Breast
Philadelphia, PA
- 1996 Memorial Hospital Grand Rounds
Radiology/Obstetrics & Gynecology
Hollywood, FL
- 2000 University of CA at San Francisco MRI Course
MRI Prostate & MRI Female Pelvis
San Francisco, CA
- 2000 MUSC Savannah MRI Course
MRI of the Female Pelvis; MRI of the Male Pelvis; MRI of Malignant Disease of the Pelvis
Savannah, GA
- 2002 Loyola University of Chicago *Leon Love Lecture*
Prostate MRI
Maywood, IL
- 2002 University of CA at San Francisco Earl Miller Lecture
Pelvic MRI and Image Guided Interventions
San Francisco, CA
- 2002 ISMRM Workshop on Clinical Applications of Focused Ultrasound Surgery-Non-MRI vs. MRI
Uterine Fibroid
Cambridge, MA
- 2003 Texas Radiological Society Annual Meeting
MRI of Adrenals; MR-Guided FUS of Fibroids; MRI Prostate
Galveston, TX
- 2004 American Association for Cancer Research Meeting
Advances in Prostate Cancer Imaging: Diagnosis, Staging and Monitoring
Bonita Springs, FL
- 2004 Practical Applications of Imaging Techniques

- Benign Diseases of the Uterus; Cancer Staging of Gynecologic Disease; Focused Ultrasound and Fibroid Treatment*
Scottsdale, AZ
- 2004 CIMIT - Transforming Investigator Ideas into Medical Practice Case Studies
Massachusetts General Hospital, Boston, MA
- 2005 Hospital of the University of Pennsylvania Grand Rounds
MRI of Malignant Disease of the Female Pelvis; MRI of Leiomyomas and MRg Focused Ultrasound Surgery of Leiomyomas; MRI of Pelvic Image Guided Intervention; MRI of the Female Pelvis; MRI of the Prostate: Diagnosis, Staging and Treatment of Prostate Cancer
Philadelphia, PA
- 2006 ISMRM Meeting 2006
MRI of Prostate Cancer: Diagnosis, Staging and Treatment
Seattle, WA
- 2006 University of Maryland Grand Rounds, Warrens Lecture
MR Guided Interventions in the Pelvis
Baltimore, MD
- 2007 Stanford University Symposium
MR-guided High Intensity Focused Ultrasound
Stanford, CA
- 2007 *GERRAF Program* Association of University Radiologists
Denver, CO
- 2007 St. Jude's Medical Annual Imaging Symposium
Imaging Biomarkers
Memphis, TN
- 2008 MRI-guided Focused Ultrasound Surgery International Symposium
MR-guided High Intensity Focused Ultrasound
Washington, DC
- 2008 2nd NCIGT Image Guided Therapy Workshop
Arlington, VA
- 2009 NYU School of Medicine Grand Rounds
MRI-Guided Prostate Biopsy; Role and Limitations of Conventional Imaging Techniques; Minimally Invasive Intervention for Localized Prostate Cancer
New York, NY
- 2009 9th International Congress on Genitourinary Malignancies
Prostate Imaging
Washington, DC
- 2010 3rd NCIGT Image Guided Therapy Workshop
Arlington, VA
- 2011 4th NCIGT Image Guided Therapy Workshop
Arlington, VA

- 2011 12th Annual Meeting of the Society of Urologic Oncology in Conjunction with the World Urological Oncology Federation Extraordinary Opportunities for Discovery
Imaging Adjuncts to Improve Prostate Biopsy
Bethesda, MD
- 2012 3rd International Symposium *MR Guided FUS*
Washington, DC
- 2012 5th NCIGT Image Guided Therapy Workshop
Boston, MA
- 2013 ARRS Body MRI Faculty Annual Meeting
Body MRI male and female pelvis
Washington, DC
- 2013 6th NCIGT Image Guided Therapy Workshop
Washington, DC
- 2013 Brown University/Rhode Island Hospital Grand Rounds
Prostate MRI and case review
Providence, RI
- 2014 Scripps Research Institute Meeting
Advances in Prostate Cancer Diagnosis and Monitoring with Multi Parametric MRI
La Jolla, CA
- 2014 7th Annual W.B. Ingalls Memorial Prostate Health and Cancer Seminar
The Prostate Cancer Dilemma: Tiger or Pussycat?
Advances in Prostate Cancer Diagnosis and Monitoring with Multi Parametric MRI
Jupiter, FL
- 2014 Prostate MRI and MRI-Targeted Procedures Conference: The Comprehensive Course
Invited Faculty, IAME
Prostate Cancer, Pathology & PI-RADS "Current Therapies for Prostate Cancer"; MRI-Targeted Biopsies "Overview" and "In bore"; Clinical Case Review Post Treatment Recurrence; Elevated PSA and Negative Biopsies; Clinical Case Review 15 "Pseudo Screening": High Risk and No Biopsy; Radiation Therapy Planning; MRI Targeted Therapies
Las Vegas, NV
- 2014 RSNA 100th Scientific Assembly and Annual Meeting
Interactive Game: Prostate MRI Using PI-RADS
Chicago IL
- 2014 RSNA 100th Scientific Assembly and Annual Meeting
Multi-parametric MRI (including PIRADS)
Chicago, IL
- 2014 7th NCIGT Image Guided Therapy Workshop
MR Guided Prostate Interventions
Washington, DC
- 2015 RSNA 101st Scientific Assembly and Annual Meeting

- Prostate MRI Using PI-RADS (Prostate Imaging Reporting and Data System);
Multi-parametric MRI (including PIRADS)
Chicago, IL
- 2016 8th NCIGT Image Guided Therapy Workshop
NCIGT Leadership Perspective and Prostate MR and Image-guided Interventions
Washington, DC
- 2016 First Global Summit on Precision Diagnosis for Prostate Cancer Care
Radiology Perspective: Anatomic and Functional Imaging mpMRI and Ultrasound
Westin Copley Hotel, Boston, MA
- 2016 World Molecular Imaging Congress 2016
Keynote Lecturer; Jorge Barrio Lecture for Advances in Clinical Research
Jacob K. Javits Convention Center, New York, NY
- 2016 International Prostate Imaging Symposium
T2-Weighted Imaging; PI-RADS; Case Reviews; Case Review-Biopsy
Chicago, IL
- 2016 RSNA 102st Scientific Assembly and Annual Meeting
Prostate MRI in the PIRADS Era
GU Series Course Director
Chicago, IL
- 2017 2nd International Prostate Imaging Symposium
T2-Weighted Imaging; PI-RADS; Case Reviews; Case Review-Biopsy
Chicago, IL
- 2017 9th NCIGT Image Guided Therapy Workshop
Image-Guided Interventions in AMIGO
Washington, DC
- 2017 2nd Global Summit on Precision Diagnosis for Prostate Cancer Care
Precision Imaging and Focal Treatment
Boston, MA
- 2017 Prostate MRI Course-Prostate MR
American College of Radiology
Reston, VA
- 2017 RSNA 103rd Scientific Assembly and Annual Meeting
Prostate MRI in the PIRADS Era
GU Series Course Director
Chicago, IL
- 2017 American Brachytherapy Society (ABS) Annual Conference
MRI Pelvic Anatomy: Prostate
Boston, MA
- 2017 AASLD Liver Meeting
Autoimmune and Cholestatic Liver Disease – Poster Session
Radiologic progression in primary sclerosing cholangitis (PSC) by two-dimensional

magnetic resonance cholangiopancreatography (MRCP): Prospective data from a randomized controlled trial
Washington, DC

- 2017 AAPM FOReM on IGT
Alexandria, VA
- 2017 RSNA 2017 Explore. Invent. Transform. 103rd Scientific Assembly and Annual Meeting
Moderator: RC607 Genitourinary Series: Prostate MRI in the PI-RADS Era: Detection, Diagnosis and MRI Guided/Targeted Interventions
Chicago, IL
- 2018 10th NCIGT Image Guided Therapy Workshop
Boston, MA
- 2018 RSNA 104th Scientific Assembly and Annual Meeting
Chicago, IL
- 2019 2019 World Medical Innovation Forum – Artificial Intelligence (AI)
Boston, MA

International

- 1990 Royal College of Surgeons & University College Grand Rounds
Clinical MRI
Dublin, Ireland
- 1990 Radiology Society of Argentina
International Diagnostic Radiology Course, 5 Lectures
Argentina
- 1997 Annual Scientific Meeting, Royal College of Surgeons
Role of Prostate MRI in Men with Prostate Cancer
Dublin, Ireland
- 1997 Annual Scientific Meeting, Royal College of Surgeons
Comparative Value of Ultrasound, CT and MRI in Diagnosis and Staging of Ovarian Cancer
Dublin, Ireland
- 1999 International Diagnostic Radiology Course, 10 Seminars, 75 Minutes
MRI of Female Pelvis
Davos, Switzerland
- 2000 3rd Interventional MRI Workshop: *MR guided prostate interventions*
Leipzig, Germany
- 2000 34th International Course of Radiology and Imaging
Prostate MRI; MRI of the Breast; MRI of Female Pelvis Benign Disease; MRI of the Female Pelvis Malignant Disease
Mexico City, Mexico
- 2002 New Horizons in Radiology Symposium
MRI Female Pelvis Benign; MRI Female Pelvis Malignant
Berlin, Germany

- 2003 37th International Course of Radiology and Imaging
MRI Female Pelvis; MRI Male Pelvis; MRI in Obstetrics
Mexico City, Mexico
- 2004 Radiology in Ireland
*MRI of the Prostate; Image Guided Diagnosis and Treatment of Prostate Cancer; MR
Diagnosis and MR Guided Focused Ultrasound Surgery of Uterine Fibroids; MRI of the
Female Pelvis: Malignant Disease*
Killarney and Dublin, Ireland
- 2005 Imaging and Interventional Procedures in Hepatocellular Carcinoma Liver and Disease
at the Crossroads of Civilization East Meets West: *MR imaging and image guided
interventions in the liver*
Alexandria Library, Egypt
- 2005 University of Barcelona Grand Rounds
Image Guided Therapy of the Pelvis; MRI in Reproductive Medicine
Barcelona, Spain
- 2006 European Congress of Radiology
MR Guided Focused Ultrasound for Uterine Fibroids
Vienna, Austria
- 2006 Practical Applications of New Imaging Techniques
MRI of the of the Male Pelvis; Focused Ultrasound Surgery on Leiomyomas
Brugge, Belgium
- 2006 *MR Guided Pelvic Interventions*
Kaposvar, Hungary
- 2006 Royal College of Surgeons Grand Rounds
Image Guided Therapy
Dublin, Ireland
- 2007 17th APASL Conference
*MR Guided Focused Ultrasound Surgery: A Novel Non-invasive Treatment for Focal
Liver Disease*
Kyoto, Japan
- 2007 Joint Annual Meeting ISMRM-ESMRMB
Advanced Body Imaging
Berlin, Germany
- 2008 *National Center for Image Guided Therapy: Mission and Organizational Overview*
OR Leadership, Princess Margaret Hospital
Toronto, ON
- 2010 2010 MRI: Clinical Updates & Practical Applications
*MR of Female Pelvis: Benign Diseases; MR of Female Pelvis: Malignant Diseases; MRI
for Diagnosis and Staging; MR-guided Interventions in the Pelvis*
Los Cabos, Mexico
- 2011 Clinical MRI Update Course

MRI of the Prostate; Image Guided Therapy; MRI Guided High Focused Ultrasound in the Abdomen & Pelvis
Rio de Janeiro, Brazil

- 2011 European MR Guided US Therapy Symposium
MRgFUS of Prostate Cancer
Rome, Italy
- 2012 Visiting Professor, Queen Mary Hospital-Hong Kong
Women's Imaging
Pok Fu Lam, Hong Kong
- 2012 SMRT, ISMRM Faculty Courses
MRI of prostate cancer how I do it
Melbourne, Australia
- 2013 Visiting Professor, Visiting Professors' Program, McGill University
MR Prostate Update; MR of GYN Malignancy
Montreal, Canada
- 2013 Visiting Professor, German Association of University Professors and Lecturers,
Chairman in Radiology
The Role of Radiology in the Field of Image Guided Therapy
Tubingen, Germany
- 2013 Visiting Professor, UMCU Symposium 2013
MR-HIFU Applications: Uterine Fibroids
Utrecht, The Netherlands
- 2014 ISMRM & SMRT Faculty Course
Prostate MR
Milan, Italy
- 2014 10th Interventional MRI Symposium
MR-guided Prostate Interventions
Leipzig, Germany
- 2015 Visiting Professor, University of British Columbia Grand Rounds (Electrical and
Computer Engineering, Radiologic and Urologic Sciences)
*MR guided interventions technical challenges: A Radiologist's perspective; MR imaging
and image guided interventions in Prostate cancer; The role of Multi-parametric MRI
(including PIRADS) in prostate cancer detection, diagnosis and image guided
interventions.*
Vancouver, Canada
- 2015 25th Anniversary – Institute of Diagnostic Imaging and Radiation Oncology, Kaposvar
University
Image guided therapy – a view from Boston.
Kaposvar, Hungary
- 2015 3rd European Symposium on Focused Ultrasound Therapy
1st Annual Ferenc A. Jolesz Oration in Focused Ultrasound
Prostate Panel – Difficult Cases, Complications, Where Next with Technology

London, England

- 2016 Brain and Spine Institute [Institut du Cerveau et de la Moelle épinière (ICM)]
Image guided therapy advances in Oncology from the NCIGT
Paris, France
- 2015 MICCAI 2015
Invited Keynote Plenary - *Image guided therapy advances in Oncology*
Istanbul, Turkey
- 2016 MICCAI 2016
Athens, Greece
- 2017 ISMRM 25th Annual Meeting and Exhibition
Honolulu, Hawaii
- 2018 APASL Liver Meeting
Autoimmune Cholestatic Liver Disease – Podium Presentation
Quantification of biliary tree volume in patients with PSC using 3D reconstruction of
magnetic resonance cholangiopancreatography (MRCP): Clinical associations and
prognostic significance
New Delhi, India
- 2018 ISMRM 26th Annual Meeting and Exhibition
Plenary Lecturer: *High-End MRI: Added Value vs Added Science*
Paris, France
- 2019 ISMRM 27th Annual Meeting and Exhibition
Montreal, Canada

Report of Clinical Activities and Innovations

Current Licensure and Certification

- 1982- Irish Medical Council Registration
1988- American Board of Radiology Certification
1991- Massachusetts Medical License

Report of Technological and Other Scientific Innovations

10/30/2001-12/17/2013 *Patent #: 6,311,084 - Radiation seed implant method and apparatus.*

Report of Scholarship

Publications

Original Articles

1. **Tempany CM.** Villous tumor. *IMJ III Med J.* 1985 Nov; 168(5):313, 52-3. PMID: 2867070.
2. **Tempany CM.** The Viewbox. Villous adenoma of duodenum. *IMJ III Med J.* 1986 Jan; 169(1):7, 45. PMID: 2869017.
3. Posniak HV, **Tempany CM**, Demos TC, Love L. Computed tomography of posterior pararenal and peritoneal metastases. *Urol Radiol.* 1988 Jan; 10(2):75-9. PMID: 3055632.

4. Cooper RA, **Tempany CM**, Farrell B. Conventional and computed tomographic sialography in evaluating disorders of the parotid gland. *Entechnology*. 1988 Sep; 20:35. PMID: 3271574.
5. Kawashima A, Fishman EK, Hruban RH, **Tempany CM**, Kuhlman JE, Zerhouni EA. Biliary cystadenoma with intratumoral bleeding: radiologic-pathologic correlation. *J Comput Assist Tomogr*. 1991 Nov-Dec; 15(6):1035-8. PMID: 1939756.
6. Kawashima A, Kuhlman JE, Fishman EK, **Tempany CM**, Magid D, Lederman HM, Winkelstein JA, Zerhouni EA. Pulmonary Aspergillus chest wall involvement in chronic granulomatous disease: CT and MRI findings. *Skeletal Radiol*. 1991 Jan; 20(7):487-93. PMID: 1754909.
7. Kronthal AJ, Kang YS, Fishman EK, Jones B, Kuhlman JE, **Tempany CM**. MR imaging in sclerosing mesenteritis. *AJR Am J Roentgenol*. 1991 Mar; 156(3): 517-9. PMID: 1899747.
8. **Tempany CM**, Rahmouni AD, Epstein JI, Walsh PC, Zerhouni EA. Invasion of the neurovascular bundle by prostate cancer: evaluation with MR imaging. *Radiology*. 1991 Oct; 181(1):107-12. PMID: 1887017.
9. Wolff KA, Herold CJ, **Tempany CM**, Parravano JG, Zerhouni EA. Aortic dissection: atypical patterns seen at MR imaging. *Radiology*. 1991 Nov; 181(2):489-95. PMID: 1924793.
10. Carter HB, Brem RF, **Tempany CM**, Yang A, Epstein JI, Walsh PC, Zerhouni EA. Nonpalpable prostate cancer: detection with MR imaging. *Radiology*. 1991 Feb; 178(2):523-5. PMID: 1987620.
11. Brem RF, **Tempany CM**, Zerhouni EA. MR detection of breast implants rupture. *J Comput Assist Tomogr*. 1992 Jan-Feb; 16(1):157-9. PMID: 1729297.
12. Mitchell DG, Palazzo J, Hann HW, Park CH, **Tempany CM**, Chako A, Rubin R. Mass-like hepatic hypertrophy: MRI findings with histologic correlation. *Magn Reson Imaging*. 1992 Jan; 10(4):541-7. PMID: 1501524.
13. Schiebler ML, Yankaskas BC, **Tempany CM**, Holtz P, Zerhouni EA. Efficacy of prostate-specific antigen and magnetic resonance imaging in staging stage C adenocarcinoma of the prostate. *Invest Radiol*. 1992 Aug; 27(8):575-7. PMID: 1385355.
14. **Tempany CM**, Morton RA, Marshall FF. MRI of the renal veins: assessment of nonneoplastic venous thrombosis. *J Comput Assist Tomogr*. 1992 Nov-Dec; 16(6):929-34. PMID: 1430444.
15. Rahmouni A, Yang A, **Tempany CM**, Frenkel T, Epstein J, Walsh P, Leichner PK, Ricci C, Zerhouni EA. Accuracy of in-vivo assessment of prostatic volume by MRI and transrectal ultrasonography. *J Comput Assist Tomogr*. 1992 Nov-Dec; 16(6):935-40. PMID: 1385499.
16. Silverman SG, Bloom DA, Seltzer SE, **Tempany CM**, Adams DF. Needle-tip localization during CT-guided abdominal biopsy: comparison of conventional and spiral CT. *AJR Am J Roentgenol*. 1992 Nov; 159(5):1095-7. PMID: 1414782.
17. Schiebler ML, Yankaskas BC, **Tempany CM**, Spritzer CE, Rifkin MD, Pollack HM, Holtz P, Zerhouni EA. MR imaging in adenocarcinoma of the prostate: interobserver variation and efficacy for determining stage C disease. *AJR Am J Roentgenol*. 1992 Mar; 158(3):559-62; discussion 63-4. PMID: 1738994.

18. Rahmouni A, **Tempany CM**, Jones R, Mann R, Yang A, Zerhouni EA. Lymphoma: monitoring tumor size and signal intensity with MR imaging. *Radiology*. 1993 Aug; 188(2):445-51. PMID: 8327695.
19. **Tempany CM**, Partin AW, Zerhouni EA, Zinreich SJ, Walsh PC. The influence of finasteride on the volume of the peripheral and periurethral zones of the prostate in men with benign prostatic hyperplasia. *Prostate*. 1993 Jan; 22(1):39-42. PMID: 7678931.
20. Schwartz LH, Seltzer SE, **Tempany CM**, Silverman SG, Piwnica-Worms DR, Adams DF, Herman L, Herman LT, Hooshmand R. Prospective comparison of T₂-weighted fast spin-echo, with and without fat suppression, and conventional spin-echo pulse sequences in the upper abdomen. *Radiology*. 1993 Nov; 189(2):411-6. PMID: 8210368.
21. Ellis JH, **Tempany CM**, Sarin MS, Gatsonis C, Rifkin MD, McNeil BJ. MR imaging and sonography of early prostatic cancer: pathologic and imaging features that influence identification and diagnosis. *AJR Am J Roentgenol*. 1994 Apr ;162(4):865-72. PMID: 8141009.
22. Schwartz LH, Seltzer SE, Adams DF, **Tempany CM**, Piwnica-Worms DR, Silverman SG, Herman L, Herman LT, Hooshmand R. Effects of superparamagnetic iron oxide (AMI-25) on liver and spleen imaging using spin-echo and fast spin-echo magnetic resonance pulse sequences. *Invest Radiol*. 1994 Jun; 29 Suppl 2:S21-3. PMID: 7928234.
23. **Tempany CM**, Zhou X, Zerhouni EA, Rifkin MD, Quint LE, Piccoli CW, Ellis JH, McNeil BJ. Staging of prostate cancer: results of Radiology Diagnostic Oncology Group project comparison of three MR imaging techniques. *Radiology*. 1994 Jul; 192(1):47-54. PMID: 8208963.
24. Burnett AL, Allen RP, **Tempany CM**, Dover GJ, Brendler CB. Evaluation of erectile function in men with sickle cell disease. *Urology*. 1995 Apr; 45(4):657-63. PMID: 7716848.
25. **Tempany CM**, Masoudi FA, Marshall FF. The use of dynamic magnetic resonance imaging to evaluate orthotopic continent urinary diversion. *Urology*. 1995 May; 45(5):886-92. PMID: 7747382.
26. Chako AC, **Tempany CM**, Zerhouni EA. Effect of slice acquisition direction on image quality in thoracic MRI. *J Comput Assist Tomogr*. 1995 Nov-Dec; 19(6):936-40. PMID: 8537529.
27. Schwartz LH, Seltzer SE, **Tempany CM**, Silverman SG, Piwnica-Worms DR, Adams DF, Herman L, Herman LA, Hooshmand R. Superparamagnetic iron oxide hepatic MR imaging: efficacy and safety using conventional and fast spin-echo pulse sequences. *J Magn Reson Imaging*. 1995 Sep-Oct; 5(5):566-70. PMID: 8574043.
28. Silverman SG, Hillstrom MM, Doyle CJ, **Tempany CM**, Sica GT. Thrombophlebitic retroperitoneal collateral veins mimicking lymphadenopathy: MR and CT appearance. *Abdom Imaging*. 1995 Sep-Oct; 20(5):474-6. PMID: 7580789.
29. D'Amico AV, Whittington R, Malkowicz SB, Loughlin K, Schultz D, Schnall M, **Tempany CM**, Tomaszewski JE, Renshaw A, Wein A. An analysis of the time course of postoperative prostate-specific antigen failure in patients with positive surgical margins: implications on the use of adjuvant therapy. *Urology*. 1996 Apr; 47(4):538-47. PMID: 8638365.
30. Zerhouni EA, Rutter C, Hamilton SR, Balfe DM, Megibow AJ, Francis IR, Moss AA, Heiken JP, **Tempany CM**, Aisen AM, Weinreb JC, Gatsonis C, McNeil BJ. CT and MR imaging in the

- staging of colorectal carcinoma: report of the Radiology Diagnostic Oncology Group II. *Radiology*. 1996 Aug; 200(2):443-51. PMID: 8685340.
31. Silverman SG, Pearson GD, Seltzer SE, Polger M, **Tempany CM**, Adams DF, Brown DL, Judy PF. Small (< or = 3 cm) hyperechoic renal masses: comparison of helical and conventional CT for diagnosing angiomyolipoma. *AJR Am J Roentgenol*. 1996 Oct; 167(4):877-81. PMID: 8928697.
 32. Seltzer SE, Getty DJ, **Tempany CM**, Pickett RM, Schnall MD, McNeil BJ, Swets JA. Staging prostate cancer with MR imaging: a combined radiologist-computer system. *Radiology*. 1997 Jan; 202(1):219-26. PMID: 8988214.
 33. **Tempany CM**, Langlotz CP. Re: Endo-rectal coil magnetic resonance imaging in clinically localized prostate cancer: is it accurate? *J Urol*. 1997 Apr; 157(4):1371-2. PMID: 9120955.
 34. Getty DJ, Seltzer SE, **Tempany CM**, Pickett RM, Swets JA, McNeil BJ. Prostate cancer: relative effects of demographic, clinical, histologic, and MR imaging variables on the accuracy of staging. *Radiology*. 1997 Aug; 204(2):471-9. PMID: 9240538.
 35. Fielding JR, Fox LA, Heller H, Seltzer SE, **Tempany CM**, Silverman SG, Steele G. Spiral CT in the evaluation of flank pain: overall accuracy and feature analysis. *J Comput Assist Tomogr*. 1997 Jul-Aug; 21(4):635-8. PMID: 9216774.
 36. Tello R, **Tempany CM**, Chai J, Ainslie M, Adams DF. MR hystero-graphy using axial long TR imaging with three-dimensional projections of the uterus. *Comput Med Imaging Graph*. 1997 Mar-Apr; 21(2):117-23. PMID: 9152577.
 37. D'Amico AV, Chang E, Garnick M, Kantoff P, Jiroutek M, **Tempany CM**. Assessment of prostate cancer volume using endorectal coil magnetic resonance imaging: a new predictor of tumor response to neoadjuvant androgen suppression therapy. *Urology*. 1998 Feb; 51(2):287-92. PMID: 9495713.
 38. Wong TZ, Silverman SG, Fielding JR, **Tempany CM**, Hynynen K, Jolesz FA. Open-configuration MR imaging, intervention, and surgery of the urinary tract. *Urol Clin North Am*. 1998 Feb; 25(1):113-22. PMID: 9529542.
 39. D'Amico AV, Cormack RA, **Tempany CM**, Kumar S, Topulos G, Kooy HM, Coleman CN. Real-time magnetic resonance image-guided interstitial brachytherapy in the treatment of select patients with clinically localized prostate cancer. *Int J Radiat Oncol Biol Phys*. 1998 Oct; 42(3):507-15. PMID: 9806508.
 40. Zou KH, **Tempany CM**, Fielding JR, Silverman SG. Original smooth receiver operating characteristic curve estimation from continuous data: statistical methods for analyzing the predictive value of spiral CT of ureteral stones. *Acad Radiol*. 1998 Oct; 5(10):680-7. PMID: 9787838.
 41. Harisinghani MG, Saini S, Weissleder R, Hahn PF, Yantiss RK, **Tempany CM**, Wood BJ, Mueller PR. MR lymphangiography using ultrasmall superparamagnetic iron oxide in patients with primary abdominal and pelvic malignancies: radiographic-pathologic correlation. *AJR Am J Roentgenol*. 1999 May; 172(5):1347-51. PMID: 10227514.
 42. Kurtz AB, Tsimikas JV, **Tempany CM**, Hamper UM, Arger PH, Bree RL, Wechsler RJ, Francis IR, Kuhlman JE, Siegelman ES, Mitchell DG, Silverman SG, Brown DL, Sheth S, Coleman BG, Ellis JH, Kurman RJ, Caudry DJ, McNeil BJ. Diagnosis and staging of ovarian cancer:

- comparative values of Doppler and conventional US, CT, and MR imaging correlated with surgery and histopathologic analysis--report of the Radiology Diagnostic Oncology Group. *Radiology*. 1999 Jul; 212(1):19-27. PMID: 10405715.
43. Cormack RA, Kooy H, **Tempany CM**, D'Amico AV. A clinical method for real-time dosimetric guidance of transperineal 125I prostate implants using interventional magnetic resonance imaging. *Int J Radiat Oncol Biol Phys*. 2000 Jan; 46(1):207-14. PMID: 10656394.
 44. Kooy HM, Cormack RA, Mathiowitz G, **Tempany CM**, D'Amico AV. A software system for interventional magnetic resonance image-guided prostate brachytherapy. *Comput Aided Surg*. 2000 Apr; 5(6):401-13. PMID: 11295853.
 45. D'Amico AV, Cormack RA, Kumar S, **Tempany CM**. Real-time magnetic resonance imaging-guided brachytherapy in the treatment of selected patients with clinically localized prostate cancer. *J Endourol*. 2000 May; 14(4):367-70. PMID: 10910153.
 46. Hurwitz MD, Cormack RA, **Tempany CM**, Kumar S, D'Amico AV. Three-dimensional real-time magnetic resonance-guided interstitial prostate brachytherapy optimizes radiation dose distribution resulting in a favorable acute side effect profile in patients with clinically localized prostate cancer. *Tech Urol*. 2000 Jun; 6(2):89-94. PMID: 10798806.
 47. **Tempany CM**, Zou KH, Silverman SG, Brown DL, Kurtz AB, McNeil BJ. Staging of advanced ovarian cancer: comparison of imaging modalities--report from the Radiological Diagnostic Oncology Group. *Radiology*. 2000 Jun; 215(3):761-7. PMID: 10831697.
 48. Thomas MD, Cormack RA, **Tempany CM**, Kumar S, Manola J, Schneider L, Hurwitz MD, D'Amico AV. Identifying the predictors of acute urinary retention following magnetic-resonance-guided prostate brachytherapy. *Int J Radiat Oncol Biol Phys*. 2000 Jul; 47(4):905-8. PMID: 10863058.
 49. D'Amico AV, **Tempany CM**, Cormack RA, Hata N, Jinzaki M, Tuncali K, Weinstein M, Richie JP. Transperineal magnetic resonance image guided prostate biopsy. *J Urol*. 2000 Aug; 164(2):385-7. PMID: 10893591.
 50. Norwitz ER, Hoyte LP, Jenkins KJ, van der Velde ME, Ratiu P, Rodriguez-Thompson D, Wilkins-Haug L, **Tempany CM**, Fishman SJ. Separation of conjoined twins with the twin reversed-arterial-perfusion sequence after prenatal planning with three-dimensional modeling. *N Engl J Med*. 2000 Aug; 343(6):399-402. PMID: 10933739.
 51. Cormack RA, D'Amico AV, Hata N, Silverman S, Weinstein M, **Tempany CM**. Feasibility of transperineal prostate biopsy under interventional magnetic resonance guidance. *Urology*. 2000 Oct; 56(4):663-4. PMID: 11018628.
 52. Cormack RA, **Tempany CM**, D'Amico AV. Optimizing target coverage by dosimetric feedback during prostate brachytherapy. *Int J Radiat Oncol Biol Phys*. 2000 Nov; 48(4):1245-9. PMID: 11072185.
 53. **Tempany CM**, McNeil BJ. Advances in biomedical imaging. *JAMA*. 2001 Feb; 285(5):562-7. PMID: 11176859.
 54. Brown DL, Zou KH, **Tempany CM**, Frates MC, Silverman SG, McNeil BJ, Kurtz AB. Primary versus secondary ovarian malignancy: imaging findings of adnexal masses in the Radiology Diagnostic Oncology Group Study. *Radiology*. 2001 Apr; 219(1):213-8. PMID: 11274559.

55. Schierlitz L, Dumanli H, Robinson JN, Burrows PE, Schreyer AG, Kikinis R, Jolesz FA, **Tempany CM**. Three-dimensional magnetic resonance imaging of fetal brains. *Lancet*. 2001 Apr; 357(9263):1177-8. PMID: 11323047.
56. Hata N, Jinzaki M, Kacher D, Cormak R, Gering D, Nabavi A, Silverman SG, D'Amico AV, Kikinis R, Jolesz FA, **Tempany CM**. MR imaging-guided prostate biopsy with surgical navigation software: device validation and feasibility. *Radiology*. 2001 Jul; 220(1):263-8. PMID: 11426008.
57. O' Malley AJ, Zou KH, Fielding JR, **Tempany CM**. Bayesian regression methodology for estimating a receiver operating characteristic curve with two radiologic applications: prostate biopsy and spiral CT of ureteral stones. *Acad Radiol*. 2001 Aug; 8(8):713-25. PMID: 11508750.
58. Sica GT, Pugach ME, Koniaris LS, Goldhaber SZ, Polak JF, Mukerjee A, **Tempany CM**. Isolated calf vein thrombosis: comparison of MR venography and conventional venography after initial sonography in symptomatic patients. *Acad Radiol*. 2001 Sep; 8(9):856-63. PMID: 11724040.
59. Bharatha A, Hirose M, Hata N, Warfield SK, Ferrant M, Zou KH, Suarez-Santana E, Ruiz-Alzola J, D'Amico AV, Cormack RA, Kikinis R, Jolesz FA, **Tempany CM**. Evaluation of three-dimensional finite element-based deformable registration of pre- and intraoperative prostate imaging. *Med Phys*. 2001 Dec; 28(12):2551-60. PMID: 11797960.
60. D'Amico AV, Manola J, Loffredo M, Lopes L, Nissen K, O'Farrell DA, Gordon L, **Tempany CM**, Cormack RA. A practical method to achieve prostate gland immobilization and target verification for daily treatment. *Int J Radiat Oncol Biol Phys*. 2001 Dec; 51(5):1431-6. PMID: 11728704.
61. Hirose M, Bharatha A, Hata N, Zou KH, Warfield SK, Cormack RA, D'Amico AV, Kikinis R, Jolesz FA, **Tempany CM**. Quantitative MR imaging assessment of prostate gland deformation before and during MR imaging-guided brachytherapy. *Acad Radiol*. 2002 Aug; 9(8):906-12. PMID: 12186439.
62. Das P, Chen MH, Valentine K, Lopes L, Cormack RA, Renshaw AA, **Tempany CM**, Kumar S, D'Amico AV. Using the magnitude of PSA bounce after MRI-guided prostate brachytherapy to distinguish recurrence, benign precipitating factors, and idiopathic bounce. *Int J Radiat Oncol Biol Phys*. 2002 Nov; 54(3):698-702. PMID: 12377320.
63. D'Amico AV, Toupless G, Lopes L, Valentine KJ, Cormack RA, **Tempany CM**, Kumar S, Marks PJ. Self-administration of untested medical therapy for treatment of prostate cancer can lead to clinically significant adverse events. *Int J Radiat Oncol Biol Phys*. 2002 Dec; 54(5):1311-3. PMID: 12459351.
64. Tsai A, Yezzi A, Jr., Wells WM, **Tempany CM**, Tucker D, Fan A, Grimson WE, Willsky A. A shape-based approach to the segmentation of medical imagery using level sets. *IEEE Trans Med Imaging*. 2003 Feb; 22(2):137-54. PMID: 12715991.
65. **Tempany CM**, Stewart EA, McDannold N, Quade BJ, Jolesz FA, Hynynen K. MR imaging-guided focused ultrasound surgery of uterine leiomyomas: a feasibility study. *Radiology*. 2003 Mar; 226(3):897-905. PMID: 12616023.
66. Zou KH, Fielding JR, Silverman SG, **Tempany CM**. Hypothesis testing I: proportions. *Radiology*. 2003 Mar; 226(3):609-13. PMID: 12601204.

67. Fan A, Wells WM, Fisher JW, Cetin M, Haker S, Mulkern RV, **Tempany CM**, Willsky AS. A unified variational approach to denoising and bias correction in MR. *Inf Process Med Imaging*. 2003 Jul; 18:148-59. PMID: 15344454.
68. Stewart EA, Gedroyc WM, **Tempany CM**, Quade BJ, Inbar Y, Ehrenstein T, Shushan A, Hindley JT, Goldin RD, David M, Sklair M, Rabinovici J. Focused ultrasound treatment of uterine fibroid tumors: safety and feasibility of a noninvasive thermo-ablative technique. *Am J Obstet Gynecol*. 2003 Jul; 189(1):48-54. PMID: 12861137.
69. Tsai A, Wells WM, **Tempany CM**, Grimson E, Willsky A. Coupled multi-shape model and mutual information for medical image segmentation. *Inf Process Med Imaging*. 2003 Jul; 18:185-97. PMID: 15344457.
70. Albert M, **Tempany CM**, Schultz D, Chen MH, Cormack RA, Kumar S, Hurwitz MD, Beard C, Tuncali K, O'Leary M, Topulos GP, Valentine K, Lopes L, Kanan A, Kacher D, Rosato J, Kooy H, Jolesz FA, Carr-Locke DL, Richie JP, D'Amico AV. Late genitourinary and gastrointestinal toxicity after magnetic resonance image-guided prostate brachytherapy with or without neoadjuvant external beam radiation therapy. *Cancer*. 2003 Sep; 98(5):949-54. PMID: 12942561.
71. Anzai Y, Piccoli CW, Outwater EK, Stanford W, Bluemke DA, Nurenberg P, Saini S, Maravilla KR, Feldman DE, Schmiedl UP, Brunberg JA, Francis IR, Harms SE, Som PM, **Tempany CM**, Group. Evaluation of neck and body metastases to nodes with ferumoxtran 10-enhanced MR imaging: phase III safety and efficacy study. *Radiology*. 2003 Sep; 228(3):777-88. PMID: 12954896.
72. Chan I, Wells WM, Mulkern RV, Haker S, Zhang J, Zou KH, Maier SE, **Tempany CM**. Detection of prostate cancer by integration of line-scan diffusion, T₂-mapping and T₂-weighted magnetic resonance imaging; a multichannel statistical classifier. *Med Phys*. 2003 Sep; 30(9):2390-8. PMID: 14528961.
73. Sanghani MV, Schultz D, **Tempany CM**, Titelbaum D, Renshaw AA, Loffredo M, Cote K, McMahon B, D'Amico AV. Quantifying the change in endorectal magnetic resonance imaging-defined tumor volume during neoadjuvant androgen suppression therapy in patients with prostate cancer. *Urology*. 2003 Sep; 62(3):487-91. PMID: 12946752.
74. D'Amico A V, **Tempany CM**, Schultz D, Cormack RA, Hurwitz M, Beard C, Albert M, Kooy H, Jolesz FA, Richie JP. Comparing PSA outcome after radical prostatectomy or magnetic resonance imaging-guided partial prostatic irradiation in select patients with clinically localized adenocarcinoma of the prostate. *Urology*. 2003 Dec; 62(6):1063-7. PMID: 14665356.
75. Zou KH, Warfield SK, Fielding JR, **Tempany CM**, William MW, Kaus MR, Jolesz FA, Kikinis R. Statistical validation based on parametric receiver operating characteristic analysis of continuous classification data. *Acad Radiol*. 2003 Dec; 10(12):1359-68. PMID: 14697004; PMC1409756.
76. Zou KH, Warfield SK, Bharatha A, **Tempany CM**, Kaus MR, Haker SJ, Wells WM, Jolesz FA, Kikinis R. Statistical validation of image segmentation quality based on a spatial overlap index. *Acad Radiol*. 2004 Feb; 11(2):178-89. PMID: 14974593; PMC1415224.
77. Nguyen PL, Whittington R, Koo S, Schultz D, Cote KB, Loffredo M, **Tempany CM**, Titelbaum DS, Schnall MD, Renshaw AA, Tomaszewski JE, D'Amico AV. Quantifying the impact of seminal vesicle invasion identified using endorectal magnetic resonance imaging on PSA

- outcome after radiation therapy for patients with clinically localized prostate cancer. *Int J Radiat Oncol Biol Phys*. 2004 Jun; 59(2):400-5. PMID: 15145155.
78. Frates MC, Kumar AJ, Benson CB, Ward VL, **Tempany CM**. Fetal anomalies: comparison of MR imaging and US for diagnosis. *Radiology*. 2004 Aug; 232(2):398-404. PMID: 15286310.
 79. Mulkern RV, Rybicki FJ, Haker SJ, **Tempany CM**. Comments on T₂ measurements of prostate tissue. *Radiology*. 2004 Aug; 232(2):624-5; author reply 5-6. PMID: 15286328.
 80. Dickhaus CF, Burghart C, **Tempany CM**, D'Amico AV, Haker S, Kikinis R, Woern H. Workflow modeling and analysis of computer guided prostate brachytherapy under MR imaging control. *Stud Health Technol Inform*. 2004 Nov; 98:72-4. PMID: 15544246.
 81. Robinson JN, Cleary-Goldman J, Arias-Mendoza F, Cruz-Lobo J, **Tempany CM**, Mulkern RV, Feinberg BB, Brown TR. Detection of fetal lactate with two-dimensional-localized proton magnetic resonance spectroscopy. *Obstet Gynecol*. 2004 Nov; 104(5 Pt 2):1208-10. PMID: 15516455.
 82. Hindley J, Gedroyc WM, Regan L, Stewart E, **Tempany CM**, Hynynen K, McDannold N, Inbar Y, Itzchak Y, Rabinovici J, Kim HS, Geschwind JF, Hesley G, Gostout B, Ehrenstein T, Hengst S, Sklair-Levy M, Shushan A, Jolesz FA. MRI guidance of focused ultrasound therapy of uterine fibroids: early results. *AJR Am J Roentgenol*. 2004 Dec; 183(6):1713-9. PMID: 15547216.
 83. Tsai A, Wells WM, **Tempany CM**, Grimson E, Willsky A. Mutual information in coupled multi-shape model for medical image segmentation. *Med Image Anal*. 2004 Dec; 8(4):429-45. PMID: 15567707.
 84. Landis DM, Schultz D, Cormack RA, **Tempany CM**, Beard C, Hurwitz M, O'Leary M, Albert M, Valentine K, D'Amico AV. Acute urinary retention after magnetic resonance image-guided prostate brachytherapy with and without neoadjuvant external beam radiotherapy. *Urology*. 2005 Apr; 65(4):750-4. PMID: 15833521.
 85. Febbo PG, Richie JP, George DJ, Loda M, Manola J, Shankar S, Barnes AS, **Tempany CM**, Catalona W, Kantoff PW, Oh WK. Neoadjuvant docetaxel before radical prostatectomy in patients with high-risk localized prostate cancer. *Clin Cancer Res*. 2005 Jul; 11(14):5233-40. PMID: 16033841.
 86. Szot Barnes A, Haker SJ, Mulkern RV, So M, D'Amico AV, **Tempany CM**. Magnetic resonance spectroscopy-guided transperineal prostate biopsy and brachytherapy for recurrent prostate cancer. *Urology*. 2005 Dec; 66(6):1319. PMID: 16360468.
 87. DiMaio SP, Pieper S, Chinzei K, Hata N, Balogh E, Fichtinger G, **Tempany CM**, Kikinis R. Robot-assisted needle placement in open-MRI: system architecture, integration and validation. *Stud Health Technol Inform*. 2006 Jan; 119:126-31. PMID: 16404030.
 88. Stewart EA, Rabinovici J, **Tempany CM**, Inbar Y, Regan L, Gostout B, Hesley G, Kim HS, Hengst S, Gedroyc WM. Clinical outcomes of focused ultrasound surgery for the treatment of uterine fibroids. *Fertil Steril*. 2006 Jan; 85(1):22-9. PMID: 16412721.
 89. Sodickson A, Morteale KJ, Barish MA, Zou KH, Thibodeau S, **Tempany CM**. Three-dimensional fast-recovery fast spin-echo MRCP: comparison with two-dimensional single-shot fast spin-echo techniques. *Radiology*. 2006 Feb; 238(2):549-59. PMID: 16436816.

90. Mulkern RV, Barnes AS, Haker SJ, Hung YP, Rybicki FJ, Maier SE, **Tempany CM**. Biexponential characterization of prostate tissue water diffusion decay curves over an extended b-factor range. *Magn Reson Imaging*. 2006 Jun; 24(5):563-8. PMID: 16735177; PMC1880900.
91. Xiong L, Viswanathan AN, Stewart AJ, Haker S, **Tempany CM**, Chin LM, Cormack RA. Deformable structure registration of bladder through surface mapping. *Med Phys*. 2006 Jun; 33(6):1848-56. PMID: 16872092.
92. McDannold N, **Tempany CM**, Fennessy FM, So MJ, Rybicki FJ, Stewart EA, Jolesz FA, Hynynen K. Uterine leiomyomas: MR imaging-based thermometry and thermal dosimetry during focused ultrasound thermal ablation. *Radiology*. 2006 Jul; 240(1):263-72. PMID: 16793983; PMC1850234.
93. So MJ, Fennessy FM, Zou KH, McDannold N, Hynynen K, Jolesz FA, Stewart EA, Rybicki FJ, **Tempany CM**. Does the phase of menstrual cycle affect MR-guided focused ultrasound surgery of uterine leiomyomas? *Eur J Radiol*. 2006 Aug; 59(2):203-7. PMID: 16766153.
94. Viswanathan AN, Cormack RA, Holloway CL, Tanaka C, O'Farrell D, Devlin PM, **Tempany CM**. Magnetic resonance-guided interstitial therapy for vaginal recurrence of endometrial cancer. *Int J Radiat Oncol Biol Phys*. 2006 Sep; 66(1):91-9. PMID: 16839709.
95. DiMaio SP, Pieper S, Chinzei K, Hata N, Haker SJ, Kacher DF, Fichtinger G, **Tempany CM**, Kikinis R. Robot-assisted needle placement in open MRI: system architecture, integration and validation. *Comput Aided Surg*. 2007 Jan; 12(1):15-24. PMID: 17364655.
96. Fennessy FM, **Tempany CM**, McDannold N, So MJ, Hesley G, Gostout B, Kim HS, Holland GA, Sarti DA, Hynynen K, Jolesz FA, Stewart EA. Uterine leiomyomas: MR imaging-guided focused ultrasound surgery--results of different treatment protocols. *Radiology*. 2007 Jun; 243(3):885-93. PMID: 17446521.
97. Zhang JQ, Loughlin KR, Zou KH, Haker S, **Tempany CM**. Role of endorectal coil magnetic resonance imaging in treatment of patients with prostate cancer and in determining radical prostatectomy surgical margin status: report of a single surgeon's practice. *Urology*. 2007 Jun; 69(6):1134-7. PMID: 17572201; PMC2709506.
98. DiMaio SP, Kapur T, Cleary K, Aylward S, Kazanzides P, Vosburgh K, Ellis R, Duncan J, Farahani K, Lemke H, Peters T, Lorensen WB, Gobbi D, Haller J, Clarke LL, Pizer S, Taylor R, Galloway R, Jr., Fichtinger G, Hata N, Lawson K, **Tempany CM**, Kikinis R, Jolesz FA. Challenges in image-guided therapy system design. *Neuroimage*. 2007 Jul; 37 Suppl 1:S144-51. PMID: 17644360; PMC3780776.
99. Kelloff GJ, Sullivan DC, Baker H, Clarke LP, Nordstrom R, Tatum JL, Dorfman GS, Jacobs P, Berg CD, Pomper MG, Birrer MJ, Tempero M, Higley HR, Petty BG, Sigman CC, Maley C, Sharma P, Wax A, Ginsberg GG, Dannenberg AJ, Hawk ET, Messing EM, Grossman HB, Harisinghani M, Bigio IJ, Griebel D, Henson DE, Fabian CJ, Ferrara K, Fantini S, Schnall MD, Zujewski JA, Hayes W, Klein EA, DeMarzo A, Ocak I, Ketterling JA, **Tempany CM**, Shtern F, Parnes HL, Gomez J, Srivastava S, Szabo E, Lam S, Seibel EJ, Massion P, McLennan G, Cleary K, Suh R, Burt RW, Pfeiffer RM, Hoffman JM, Roy HK, Wang T, Limburg PJ, El-Deiry WS, Papadimitrakopoulou V, Hittelman WN, MacAulay C, Veltri RW, Solomon D, Jeronimo J, Richards-Kortum R, Johnson KA, Viner JL, Stratton SP, Rajadhyaksha M, Dhawan A, Workshop Program C. Workshop on imaging science development for cancer prevention and preemption. *Cancer Biomark*. 2007 Jul; 3(1):1-33. PMID: 17655039.

100. Hanstede MM, **Tempany CM**, Stewart EA. Focused ultrasound surgery of intramural leiomyomas may facilitate fertility: a case report. *Fertil Steril*. 2007 Aug; 88(2):497 e5-7. PMID: 17292361.
101. Stewart EA, Gostout B, Rabinovici J, Kim HS, Regan L, **Tempany CM**. Sustained relief of leiomyoma symptoms by using focused ultrasound surgery. *Obstet Gynecol*. 2007 Aug; 110(2 Pt 1):279-87. PMID: 17666601.
102. Blumenfeld P, Hata N, DiMaio SP, Zou K, Haker S, Fichtinger G, **Tempany CM**. Transperineal prostate biopsy under magnetic resonance image guidance: a needle placement accuracy study. *J Magn Reson Imaging*. 2007 Sep; 26(3):688-94. PMID: 17729363.
103. Nguyen PL, Chen MH, D'Amico AV, **Tempany CM**, Steele GS, Albert M, Cormack RA, Carr-Locke DL, Bleday R, Suh WW. Magnetic resonance image-guided salvage brachytherapy after radiation in select men who initially presented with favorable-risk prostate cancer: a prospective phase 2 study. *Cancer*. 2007 Oct; 110(7):1485-92. PMID: 17701957.
104. DiMaio SP, Samset E, Fischer G, Iordachita I, Fichtinger G, Jolesz FA, **Tempany CM**. Dynamic MRI scan plane control for passive tracking of instruments and devices. *Med Image Comput Comput Assist Interv*. 2007 Nov; 10(Pt 2):50-8. PMID: 18044552.
105. Hata N, Piper S, Jolesz FA, **Tempany CM**, Black PM, Morikawa S, Iseki H, Hashizume M, Kikinis R. Application of open source image guided therapy software in MR-guided therapies. *Med Image Comput Comput Assist Interv*. 2007 Dec; 10(Pt 1):491-8. PMID: 18051095.
106. Fennessy FM, Tuncali K, Morrison PR, **Tempany CM**. MR imaging-guided interventions in the genitourinary tract: an evolving concept. *Radiol Clin North Am*. 2008 Jan; 46(1):149-66. PMID: 18328885; PMC3403748.
107. D'Amico AV, Halabi S, **Tempany CM**, Titelbaum D, Philips GK, Loffredo M, McMahon E, Sanford B, Vogelzang NJ, Small EJ, Cancer, Leukemia Group B. Tumor volume changes on 1.5 tesla endorectal MRI during neoadjuvant androgen suppression therapy for higher-risk prostate cancer and recurrence in men treated using radiation therapy results of the phase II CALGB 9682 study. *Int J Radiat Oncol Biol Phys*. 2008 May; 71(1):9-15. PMID: 18037582; PMC2976647.
108. Fischer GS, Iordachita I, Csoma C, Tokuda J, DiMaio SP, **Tempany CM**, Hata N, Fichtinger G. MRI-Compatible Pneumatic Robot for Transperineal Prostate Needle Placement. *IEEE ASME Trans Mechatron*. 2008 Jun; 13(3):295-305. PMID: 21057608; PMC2974180.
109. Fischer GS, Iordachita I, Csoma C, Tokuda J, Mewes PW, **Tempany CM**, Hata N, Fichtinger G. Pneumatically Operated MRI-Compatible Needle Placement Robot for Prostate Interventions. *IEEE Int Conf Robot Autom*. 2008 Jun; 2008:2489-95. PMID: 21686038; PMC3113650.
110. Samuel A, Fennessy FM, **Tempany CM**, Stewart EA. Avoiding treatment of leiomyosarcomas: the role of magnetic resonance in focused ultrasound surgery. *Fertil Steril*. 2008 Sep; 90(3):850 e9-12. PMID: 18022163.
111. Lenard ZM, McDannold N, Fennessy FM, Stewart EA, Jolesz FA, Hynynen K, **Tempany CM**. Uterine leiomyomas: MR imaging-guided focused ultrasound surgery--imaging predictors of success. *Radiology*. 2008 Oct; 249(1):187-94. PMID: 18695211; PMC2657858.

112. McDannold N, **Tempany CM**, Jolesz FA, Hynynen K. Evaluation of referenceless thermometry in MRI-guided focused ultrasound surgery of uterine fibroids. *J Magn Reson Imaging*. 2008 Oct; 28(4):1026-32. PMID: 18821603; PMC2574694.
113. Tokuda J, Fischer GS, Csoma C, DiMaio SP, Gobbi DG, Fichtinger G, **Tempany CM**, Hata N. Software strategy for robotic transperineal prostate therapy in closed-bore MRI. *Med Image Comput Comput Assist Interv*. 2008 Nov; 11(Pt 2):701-9. PMID: 18982666; PMC2692941.
114. Pilatou MC, Stewart EA, Maier SE, Fennessy FM, Hynynen K, **Tempany CM**, McDannold N. MRI-based thermal dosimetry and diffusion-weighted imaging of MRI-guided focused ultrasound thermal ablation of uterine fibroids. *J Magn Reson Imaging*. 2009 Feb; 29(2):404-11. PMID: 19161196; PMC2754252.
115. Vikal S, Haker S, **Tempany CM**, Fichtinger G. Prostate contouring in MRI guided biopsy. *Proc SPIE*. 2009 Mar; 7259:72594A. PMID: 21132083; PMC2995890.
116. Weinreb JC, Blume JD, Coakley FV, Wheeler TM, Cormack JB, Sotito CK, Cho H, Kawashima A, **Tempany-Afdhal CM**, Macura KJ, Rosen M, Gerst SR, Kurhanewicz J. Prostate cancer: sextant localization at MR imaging and MR spectroscopic imaging before prostatectomy--results of ACRIN prospective multi-institutional clinicopathologic study. *Radiology*. 2009 Apr; 251(1):122-33. PMID: 19332850; PMC2663583.
117. Kelloff GJ, Choyke P, Coffey DS, **Prostate Cancer Imaging Working Group**. Challenges in clinical prostate cancer: role of imaging. *AJR Am J Roentgenol*. 2009 Jun; 192(6):1455-70. PMID: 19457806; PMC2893141.
118. Roebuck JR, Haker SJ, Mitsouras D, Rybicki FJ, **Tempany CM**, Mulkern RV. Carr-Purcell-Meiboom-Gill imaging of prostate cancer: quantitative T₂ values for cancer discrimination. *Magn Reson Imaging*. 2009 May; 27(4):497-502. PMID: 18823731; PMC2720831.
119. Nguyen PL, Chen RC, Clark JA, Cormack RA, Loffredo M, McMahon E, Nguyen AU, Suh WW, **Tempany CM**, D'Amico AV. Patient-reported quality of life after salvage brachytherapy for radio-recurrent prostate cancer: A prospective Phase II study. *Brachytherapy*. 2009 Oct-Nov; 8(4):345-52. PMID: 19428311; PMC4084795.
120. Oguro S, Tokuda J, Elhawary H, Haker S, Kikinis R, **Tempany CM**, Hata N. MRI signal intensity based B-spline nonrigid registration for pre- and intraoperative imaging during prostate brachytherapy. *J Magn Reson Imaging*. 2009 Nov; 30(5):1052-8. PMID: 19856437; PMC2801562.
121. Taran FA, **Tempany CM**, Regan L, Inbar Y, Revel A, Stewart EA, Group MR. Magnetic resonance-guided focused ultrasound (MRgFUS) compared with abdominal hysterectomy for treatment of uterine leiomyomas. *Ultrasound Obstet Gynecol*. 2009 Nov; 34(5):572-8. PMID: 19852046.
122. Tokuda J, Fischer GS, Papademetris X, Yaniv Z, Ibanez L, Cheng P, Liu H, Blevins J, Arata J, Golby AJ, Kapur T, Pieper S, Burdette EC, Fichtinger G, **Tempany CM**, Hata N. OpenIGTLink: an open network protocol for image-guided therapy environment. *Int J Med Robot*. 2009 Dec; 5(4):423-34. PMID: 19621334; PMC2811069.
123. Tokuda J, Fischer GS, DiMaio SP, Gobbi DG, Csoma C, Mewes PW, Fichtinger G, **Tempany CM**, Hata N. Integrated navigation and control software system for MRI-guided robotic prostate interventions. *Comput Med Imaging Graph*. 2010 Jan; 34(1):3-8. PMID: 19699057; PMC2815337.

124. Kuo N, Lee J, **Tempany CM**, Stuber M, Prince J. MRI-Based Prostate Brachytherapy Seed Localization. *Proc IEEE Int Symp Biomed Imaging*. 2010 Apr; 2010:1397-400. PMID: 21151846; PMC2998913.
125. Song SE, Cho NB, Fischer G, Hata N, **Tempany CM**, Fichtinger G, Iordachita I. Development of a Pneumatic Robot for MRI-guided Transperineal Prostate Biopsy and Brachytherapy: New Approaches. *IEEE Int Conf Robot Autom*. 2010 Jul; 2010:2580-5. PMID: 21399734; PMC3051168.
126. Song SE, Cho N, Tokuda J, Hata N, **Tempany CM**, Fichtinger G, Iordachita I. Preliminary Evaluation of a MRI-compatible Modular Robotic System for MRI-guided Prostate Interventions. *Proc IEEE RAS EMBS Int Conf Biomed Robot Biomechatron*. 2010 Sep; 2010:796-801. PMID: 21132087; PMC2995896.
127. Su H, Camilo A, Cole GA, Hata N, **Tempany CM**, Fischer GS. High-field MRI-compatible needle placement robot for prostate interventions. *Stud Health Technol Inform*. 2011 Feb; 163:623-9. PMID: 21335868; PMC4077613.
128. Fennessy FM, Kong CY, **Tempany CM**, Swan JS. Quality-of-life assessment of fibroid treatment options and outcomes. *Radiology*. 2011 Jun; 259(3):785-92. PMID: 21364084; PMC3099045.
129. Machtinger R, **Tempany CM**, Kanan Roddy A, Fennessy FM. Successful MRI-Guided Focused Ultrasound Uterine Fibroid Treatment Despite an Ostomy and Significant Abdominal Wall Scarring. *ISRN Obstet Gynecol*. 2011 Jun; 2011:962621. PMID: 21647219; PMC3100577.
130. Risholm P, Janoos F, Pursley J, Fedorov A, **Tempany CM**, Cormack RA, Wells WM. Selection of optimal hyper-parameters for estimation of uncertainty in MRI-TRUS registration of the prostate. *Med Image Comput Assist Interv*. 2012 Jan 15(Pt 3):107-14. PMID: 23286120; PMC3712120.
131. Moradi M, Janoos F, Fedorov A, Risholm P, Kapur T, Wolfsberger LD, Nguyen PL, **Tempany CM**, Wells WM. Two solutions for registration of ultrasound to MRI for image-guided prostate interventions. *Conf Proc IEEE Eng Med Biol Soc*. 2012 Feb; 2012:1129-32. PMID: 23366095; PMC3655766.
132. Tokuda J, Tuncali K, Iordachita I, Song SE, Fedorov A, Oguro S, Lasso A, Fennessy FM, **Tempany CM**, Hata N. In-bore setup and software for 3T MRI-guided transperineal prostate biopsy. *Phys Med Biol*. 2012 Sep; 57(18):5823-40. PMID: 22951350; PMC3517895.
133. Fedorov A, Tuncali K, Fennessy FM, Tokuda J, Hata N, Wells WM, Kikinis R, **Tempany CM**. Image registration for targeted MRI-guided transperineal prostate biopsy. *J Magn Reson Imaging*. 2012 Oct; 36(4):987-92. PMID: 22645031; PMC3434292.
134. Nguyen PL, Chen MH, Zhang Y, **Tempany CM**, Cormack RA, Beard CJ, Hurwitz MD, Suh WW, D'Amico AV. Updated results of magnetic resonance imaging guided partial prostate brachytherapy for favorable risk prostate cancer: implications for focal therapy. *J Urol*. 2012 Oct; 188(4):1151-6. PMID: 22901567; PMC3744091.
135. Ross RW, Galsky MD, Febbo P, Barry M, Richie JP, Xie W, Fennessy FM, Bhatt RS, Hayes J, Choueiri TK, **Tempany CM**, Kantoff PW, Taplin ME, Oh WK. Phase 2 study of neoadjuvant docetaxel plus bevacizumab in patients with high-risk localized prostate cancer: a Prostate Cancer Clinical Trials Consortium trial. *Cancer*. 2012 Oct; 118(19):4777-84. PMID: 22282219; PMC3791849.

136. Fennessy FM, Fedorov A, Gupta SN, Schmidt EJ, **Tempany CM**, Mulkern RV. Practical considerations in T₁ mapping of prostate for dynamic contrast enhancement pharmacokinetic analyses. *Magn Reson Imaging*. 2012 Nov; 30(9):1224-33. PMID: 22898681; PMC3466364.
137. Panych LP, Roebuck JR, Chen NK, Tang Y, Madore B, **Tempany CM**, Mulkern RV. Investigation of the PSF-choice method for reduced lipid contamination in prostate MR spectroscopic imaging. *Magn Reson Med*. 2012 Nov; 68(5):1376-82. PMID: 22648701; PMC3435467.
138. Pursley J, Risholm P, Fedorov A, Tuncali K, Fennessy FM, Wells WM, **Tempany CM**, Cormack RA. A Bayesian nonrigid registration method to enhance intraoperative target definition in image-guided prostate procedures through uncertainty characterization. *Med Phys*. 2012 Nov; 39(11):6858-67. PMID: 23127078; PMC3494726.
139. Tokuda J, Song SE, Fischer GS, Iordachita I, Seifabadi R, Cho NB, Tuncali K, Fichtinger G, **Tempany CM**, Hata N. Preclinical evaluation of an MRI-compatible pneumatic robot for angulated needle placement in transperineal prostate interventions. *Int J Comput Assist Radiol Surg*. 2012 Nov; 7(6):949-57. PMID: 22678723; PMC3692285.
140. Machtinger R, Fennessy FM, Stewart EA, Missmer SA, Correia KF, **Tempany CM**. MR-guided focused ultrasound (MRgFUS) is effective for the distinct pattern of uterine fibroids seen in African-American women: data from phase III/IV, non-randomized, multicenter clinical trials. *J Ther Ultrasound*. 2013 Jan; 1:23. PMID: 25232480; PMC4155772.
141. Hegde JV, Chen MH, Mulkern RV, Fennessy FM, D'Amico AV, **Tempany CM**. Preoperative 3-Tesla multiparametric endorectal magnetic resonance imaging findings and the odds of upgrading and upstaging at radical prostatectomy in men with clinically localized prostate cancer. *Int J Radiat Oncol Biol Phys*. 2013 Feb; 85(2):e101-7. PMID: 23040223; PMC3545042.
142. Tokuda J, Song SE, Tuncali K, **Tempany CM**, Hata N. Configurable automatic detection and registration of fiducial frames for device-to-image registration in MRI-guided prostate interventions. *Med Image Comput Comput Assist Interv*. 2013 Feb; 16(Pt 3):355-62. PMID: 24505781; PMC4009697.
143. Li G, Su H, Shang W, Tokuda J, Hata N, **Tempany CM**, Fischer GS. A Fully Actuated Robotic Assistant for MRI-Guided Prostate Biopsy and Brachytherapy. *Proc Soc Photo Opt Instrum Eng*. 2013 Mar; 8671:867117. PMID: 25076821; PMC4112766.
144. Qin L, Schmidt EJ, Tse ZTH, Santos J, Hoge WS, **Tempany-Afdhal CM**, Butts-Pauly K, Dumoulin CL. Prospective motion correction using tracking coils. *Magn Reson Med*. 2013 Mar; 69(3):749-59. PMID: 22565377; PMC3416927.
145. Song SE, Hata N, Iordachita I, Fichtinger G, **Tempany CM**, Tokuda J. A workspace-orientated needle-guiding robot for 3T MRI-guided transperineal prostate intervention: evaluation of in-bore workspace and MRI compatibility. *Int J Med Robot*. 2013 Mar; 9(1):67-74. PMID: 22492680; PMC3674858.
146. Hegde JV, Mulkern RV, Panych LP, Fennessy FM, Fedorov A, Maier SE, **Tempany CM**. Multiparametric MRI of prostate cancer: an update on state-of-the-art techniques and their performance in detecting and localizing prostate cancer. *J Magn Reson Imaging*. 2013 May; 37(5):1035-54. PMID: 23606141; PMC3741996.

147. Viswanathan AN, Szymonifka J, **Tempany-Afdhal CM**, O'Farrell DA, Cormack RA. A prospective trial of real-time magnetic resonance-guided catheter placement in interstitial gynecologic brachytherapy. *Brachytherapy*. 2013 May-Jun; 12(3):240-7. PMID: 23415048.
148. Galsky MD, Xie W, Nakabayashi M, Ross RW, Fennessy FM, **Tempany CM**, Choueiri TK, Khine K, Kantoff PW, Taplin ME, Oh WK. Analysis of the correlation between endorectal MRI response to neoadjuvant chemotherapy and biochemical recurrence in patients with high-risk localized prostate cancer. *Prostate Cancer Prostatic Dis*. 2013 Sep; 16(3):266-70. PMID: 23712318; PMC4026061.
149. Seifabadi R, Cho NB, Song SE, Tokuda J, Hata N, **Tempany CM**, Fichtinger G, Iordachita I. Accuracy study of a robotic system for MRI-guided prostate needle placement. *Int J Med Robot*. 2013 Sep; 9(3):305-16. PMID: 22678990; PMC3772968.
150. Song SE, Tokuda J, Tuncali K, **Tempany CM**, Zhang E, Hata N. Development and preliminary evaluation of a motorized needle guide template for MRI-guided targeted prostate biopsy. *IEEE Trans Biomed Eng*. 2013 Nov; 60(11):3019-27. PMID: 23335658; PMC3778164.
151. Eslami S, Fischer GS, Song SE, Tokuda J, Hata N, **Tempany CM**, Iordachita I. Towards Clinically Optimized MRI-guided Surgical Manipulator for Minimally Invasive Prostate Percutaneous Interventions: Constructive Design. *IEEE Int Conf Robot Autom*. 2013 Dec; 20132:1228-33. PMID: 24683502; PMC3966111.
152. Penzkofer T, **Tempany-Afdhal CM**. Prostate cancer detection and diagnosis: the role of MR and its comparison with other diagnostic modalities--a radiologist's perspective. *NMR Biomed*. 2014 Jan; 27(1):3-15. PMID: 24000133; PMC3851933.
153. Fennessy FM, McKay RR, Beard CJ, Taplin ME, **Tempany CM**. Dynamic contrast-enhanced magnetic resonance imaging in prostate cancer clinical trials: potential roles and possible pitfalls. *Transl Oncol*. 2014 Feb; 7(1):120-9. PMID: 24772215; PMC3998683.
154. Fedorov A, Fluckiger J, Ayers GD, Li X, Gupta SN, **Tempany CM**, Mulkern RV, Yankeelov TE, Fennessy FM. A comparison of two methods for estimating DCE-MRI parameters via individual and cohort-based AIFs in prostate cancer: a step towards practical implementation. *Magn Reson Imaging*. 2014 May; 32(4):321-9. PMID: 24560287; PMC3965600.
155. Hurwitz MD, Ghanouni P, Kanaev SV, Iozeffi D, Gianfelice D, Fennessy FM, Kuten A, Meyer JE, LeBlang SD, Roberts A, Choi J, Lerner JM, Napoli A, Turkevich VG, Inbar Y, **Tempany CM**, Pfeffer RM. Magnetic resonance-guided focused ultrasound for patients with painful bone metastases: phase III trial results. *J Natl Cancer Inst*. 2014 May; 106(5). PMID: 24760791; PMC4112926.
156. Fedorov A, Wells WM, Kikinis R, **Tempany CM**, Vangel MG. Application of tolerance limits to the characterization of image registration performance. *IEEE Trans Med Imaging*. 2014 Jul; 33(7):1541-50. PMID: 24759985; PMC4096345.
157. Murciano-Goroff YR, Wolfsberger LD, Parekh A, Fennessy FM, Tuncali K, Orio PF, Niedermayr TR, Suh WW, Devlin PM, **Tempany CM**, Sugar EH, O'Farrell DA, Steele G, O'Leary M, Buzurovic I, Damato AL, Cormack RA, Fedorov A, Nguyen PL. Variability in MRI vs. ultrasound measures of prostate volume and its impact on treatment recommendations for favorable-risk prostate cancer patients: a case series. *Radiat Oncol*. 2014 Sep; 9:200. PMID: 25205146; PMC4261899.

158. Phillips JG, Aizer AA, Chen MH, Zhang D, Hirsch MS, Richie JP, **Tempany CM**, Williams S, Hegde JV, Loffredo MJ, D'Amico AV. The effect of differing Gleason scores at biopsy on the odds of upgrading and the risk of death from prostate cancer. *Clin Genitourin Cancer*. 2014 Oct; 12(5):e181-7. PMID: 24721618; PMC4153802.
159. Fedorov A, Song SE, Kapur T, Owen R, Sugar EN, Nguyen P, Wells WM, **Tempany CM**. Prototype Design and Phantom Evaluation of a Device for Co-registered MRI/TRUS Imaging of the Prostate. *Clin Image Based Proced*. 2014 Nov; 8361:125-33. PMID: 25364786; PMC4211424.
160. Penzkofer T, Tuncali K, Fedorov A, Song SE, Tokuda J, Fennessy FM, Vangel MG, Kibel AS, Mulkern RV, Wells WM, Hata N, **Tempany CM**. Transperineal in-bore 3-T MR imaging-guided prostate biopsy: a prospective clinical observational study. *Radiology*. 2015 Jan; 274(1):170-80. PMID: 25222067; PMC4334270.
161. Xu H, Lasso A, Fedorov A, Tuncali K, **Tempany CM**, Fichtinger G. Multi-slice-to-volume registration for MRI-guided transperineal prostate biopsy. *Int J Comput Assist Radiol Surg*. 2015 May; 10(5):563-72. PMID: 25193145; PMC4412811.
162. Fedorov A, Penzkofer T, Hirsch MS, Flood TA, Vangel MG, Masry P, **Tempany CM**, Mulkern RV, Fennessy FM. The Role of Pathology Correlation Approach in Prostate Cancer Index Lesion Detection and Quantitative Analysis with Multiparametric MRI. *Acad Radiol*. 2015 May; 22(5):548-55. PMID: 25683501; PMC4429788.
163. Fedorov A, Khallaghi S, Sanchez CA, Lasso A, Fels S, Tuncali K, Sugar EN, Kapur T, Zhang C, Wells WM, Nguyen PL, Abolmaesumi P, **Tempany CM**. Open-source image registration for MRI-TRUS fusion-guided prostate interventions. *Int J Comput Assist Radiol Surg*. 2015 Jun; 10(6):925-34. PMID: 25847666; PMC4451374.
164. Yamauchi FI, Penzkofer T, Fedorov A, Fennessy FM, Chu R, Maier SE, **Tempany CM**, Mulkern RV, Panych LP. Prostate cancer discrimination in the peripheral zone with a reduced field-of-view T-mapping MRI sequence. *Magn Reson Imaging*. 2015 Jun; 33(5):525-30. PMID: 25687187; PMC4426240.
165. Silveira PC, Dunne R, Sainani NI, Lacson R, Silverman SG, **Tempany CM**, Khorasani R. Impact of an Information Technology-Enabled Initiative on the Quality of Prostate Multiparametric MRI Reports. *Acad Radiol*. 2015 Jul; 22(7):827-33. PMID: 25863794; PMC4589255.
166. Tilak G, Tuncali K, Song SE, Tokuda J, Olubiyi O, Fennessy FM, Fedorov A, Penzkofer T, **Tempany CM**, Hata N. 3T MR-guided in-bore transperineal prostate biopsy: A comparison of robotic and manual needle-guidance templates. *J Magn Reson Imaging*. 2015 Jul; 42(1):63-71. PMID: 25263213; PMC4376663.
167. Su H, Shang W, Cole G, Li G, Harrington K, Camilo A, Tokuda J, **Tempany CM**, Hata N, Fischer GS. Piezoelectrically Actuated Robotic System for MRI-Guided Prostate Percutaneous Therapy. *IEEE ASME Trans Mechatron*. 2015 Aug; 20(4):1920-32. PMID: 26412962; PMC4580290.
168. Fennessy FM, Fedorov A, Penzkofer T, Kim KW, Hirsch MS, Vangel MG, Masry P, Flood TA, Chang MC, **Tempany CM**, Mulkern RV, Gupta SN. Quantitative pharmacokinetic analysis of prostate cancer DCE-MRI at 3T: Comparison of two arterial input functions on cancer detection with digitized whole mount histopathological validation. *Magn Reson Imaging*. 2015 Sep; 33(7):886-94. PMID: 25683515; PMC4465997.

169. Weinreb JC, Barentsz JO, Choyke PL, Cornud F, Haider MA, Macura KJ, Margolis D, Schnall MD, Shtern F, **Tempany CM**, Thoeny HC, Verma S. PI-RADS Prostate Imaging - Reporting and Data System: 2015, Version 2. *Eur Urol.* 2016 Jan; 69(1):16-40. PMID: 26427566.
170. Barentsz JO, Weinreb JC, Verma S, Thoeny HC, **Tempany CM**, Shtern F, Padhani AR, Margolis D, Macura KJ, Haider MA, Cornud F, Choyke PL. Synopsis of the PI-RADS v2 Guidelines for Multiparametric Prostate Magnetic Resonance Imaging and Recommendations for Use. *Eur Urol.* 2016 Jan; 69(1):41-9. PMID: 26361169.
171. Behringer PA, Herz C, Penzkofer T, Tuncali K, **Tempany CM**, Fedorov A. Open-Source Platform for Prostate Motion Tracking During in-Bore Targeted MRI-Guided Biopsy. *Clin Image Based Proced.* 2016 Mar; 9401:122-9. PMID: 27135064; PMC4844802.
172. Eslami S, Shang W, Li G, Patel N, Fischer GS, Tokuda J, Hata N, **Tempany CM**, Iordachita I. In-bore prostate transperineal interventions with an MRI-guided parallel manipulator: system development and preliminary evaluation. *Int J Med Robot.* 2016 Jun; 12(2):199-213. PMID: 26111458; PMC4691445.
173. Ciris PA, Balasubramanian M, Seethamraju RT, Tokuda J, Scalera J, Penzkofer T, Fennessy FM, **Tempany-Afdhal CM**, Tuncali K, Mulkern RV. Characterization of gradient echo signal decays in healthy and cancerous prostate at 3T improves with a Gaussian augmentation of the mono-exponential (GAME) model. *NMR Biomed.* 2016 Jul;29(7):999-1009. PMID: 27241215; PMC4957529.
174. Manuel MM, Cho LP, Catalano PJ, Damato AL, Miyamoto DT, **Tempany CM**, Schmidt EJ, Viswanathan AN. Outcomes with image-based interstitial brachytherapy for vaginal cancer. *Radiother Oncol.* 2016 Sep;120(3):486-92. PMID: 27321150; PMC5048486.
175. Ciris PA, Balasubramanian M, Damato AL, Seethamraju RT, **Tempany-Afdhal CM**, Mulkern RV, Viswanathan AN. Characterizing Gradient Echo Signal Decays in Gynecologic Cancers at 3T using a Gaussian Augmentation of the Monoexponential (GAME) Model. *J Magn Reson Imaging.* 2016 Oct;44(4):1020-30. PMID: 26971387; PMC5018920.
176. Fedorov A, Tuncali K, Panych LP, Fairhurst J, Hassanzadeh E, Seethamraju RT, **Tempany CM**, Maier SE. Segmented diffusion-weighted imaging of the prostate: Application to transperineal in-bore 3T MR image-guided targeted biopsy. *Magn Reson Imaging.* 2016 Oct;34(8):1146-54. PMID: 27240900; PMC4993653.
177. **Tempany CM**. Opportunities for multiparametric MRI with PI-RADS v2 to make a difference. *Future Oncol.* 2016 Nov;12(21):2397-9. PMID: 27641695.
178. Glazer DI, Hassanzadeh E, Fedorov A, Olubiyi OI, Goldberger SS, Penzkofer T, Flood TA, Masry P, Mulkern RV, Hirsch MS, **Tempany CM**, Fennessy FM. Diffusion-weighted Endorectal MR Imaging at 3T for Prostate Cancer: Correlation with Tumor Cell Density and Percentage Gleason Pattern on Whole Mount Pathology. *Abdom Radiol (NY).* 2017 Mar;42(3):918-25. PMID: 27770164; PMC5357151.
179. Barentsz JO, Choyke PL, Cornud F, Haider MA, Macura KJ, Margolis D, Shtern F, Padhani AR, **Tempany CM**, Thoeny HC, Verma S, Weinreb JC. Reply to Erik Rud and Eduard Baco's Letter to the Editor re: Re: Jeffrey C. Weinreb, Jelle O. Barentsz, Peter L. Choyke, et al. PI-RADS Prostate Imaging - Reporting and Data System: 2015, Version 2. *Eur Urol.* 2016 Apr;69:16-40. *Eur Urol.* 2016 Nov;70(5):e137-e138. PMID: 27130148.

180. Mehrdash A, Sedghi A, Ghafoorian M, Taghipour M, **Tempany CM**, Wells WM 3rd, Kapur T, Mousavi P, Abolmaesumi P, Fedorov A. Classification of Clinical Significance of MRI Prostate Findings Using 3D Convolutional Neural Networks. *Proc SPIE Int Soc Opt Eng.* 2017 Feb 11;10134. PMID: 28615793; PMC5467889.
181. Kamran SC, Manuel MM, Cho LP, Damato AL, Schmidt EJ, **Tempany C**, Cormack RA, Viswanathan AN. Comparison of outcomes for MR-guided versus CT-guided high-dose-rate interstitial brachytherapy in women with locally advanced carcinoma of the cervix. *Gynecol Oncol.* 2017 May;145(2):284-90. PMID: 28318644; PMC5422203.
182. Luo J, Turk EA, Bibbo C, Gagoski B, Roberts DJ, Vangel M, **Tempany-Afdhal CM**, Barnewolt C, Estroff J, Palanisamy A, Barth WH, Zera C, Malpica N, Golland P, Adalsteinsson E, Robinson JN, Grant PE. In vivo quantification of placental insufficiency by BOLD MRI: A human study. *Sci Rep.* 2017 Jun 16 ;7(1):3713. PMID: 28623277; PMC5473907.
183. Velez E, Fedorov A, Tuncali K, Olubiyi O, Allard CB, Kibel AS, **Tempany CM**. Pathologic correlation of transperineal in-bore 3-Tesla magnetic resonance imaging-guided prostate biopsy samples with radical prostatectomy specimen. *Abdom Radiol (NY).* 2017 Aug;42(8):2154-9. PMID: 28293720; PMC5519410.
184. Kamran SC, Manuel MM, Cho LP, Damato AL, Schmidt EJ, **Tempany CM**, Cormack RA, Viswanathan AN. Corrigendum to "comparison of outcomes for MR-guided versus CT-guided high-dose-rate interstitial brachytherapy in women with locally advanced carcinoma of the cervix" [*Gynecol Oncol.* 2017 May;145(2):284-90.] *Gynecol Oncol.* 2017 Aug;146(2):440. PMID: 28577883; PMC5546914.
185. Fedorov A, Vangel MG, **Tempany CM**, Fennessy FM. Multiparametric magnetic resonance imaging of the prostate: Repeatability of volume and apparent diffusion Coefficient quantification. *Invest Radiol.* 2017 Sep;52(9):538-46. PMID: 28463931; PMC5544576.
186. Glazer DI, Mayo-Smith WW, Sainani NI, Sadow CA, Vangel MG, **Tempany CM** Dunne RM. Interreader Agreement of Prostate Imaging Reporting and Data System Version 2 Using an In-Bore MRI-Guided Prostate Biopsy Cohort: A Single Institution's Initial Experience. *AJR Am J Roentgenol.* 2017 Sep;209(3):W145-W151. PMID: 28657843; PMC5613666.
187. **Tempany CM**, Lewin JS, Kahn T. iMRI Symposium: Past-Present-Future. *Top Magn Reson Imaging.* 2018 Feb;27(1):3-4. PMID: 29406408.
188. Langkilde F, Kobus T, Fedorov A, Dunne R, **Tempany CM**, Mulkern RV, Maier SE. Evaluation of Fitting Models for Prostate Tissue Characterization using extended-range b-factor diffusion-weighted Imaging. *Magn Reson Med.* 2018 Apr;79(4):2346-58. PMID: 28718517; PMC5771983.
189. Hassanzadeh E, Alessandrino F, Olubiyi OI, Glazer DI, Mulkern RV, Fedorov A, **Tempany CM**, Fennessy FM. Comparison of quantitative apparent diffusion coefficient parameters with prostate imaging reporting and data system V2 assessment for detection of clinically significant peripheral zone prostate cancer. *Abdom Radiol (NY).* 2018 May;43(5):1237-44. PMID: 28840280; PMC5826788.
190. King MT, Nguyen PL, Boldbaatar N, **Tempany CM**, Cormack RA, Beard CJ, Hurwitz MD, Suh WW, D'Amico AV, Orto PF 3rd. Long-term outcomes of partial prostate treatment with magnetic resonance imaging-guided brachytherapy for patients with favorable-risk prostate cancer. *Cancer.* 2018 Sep 1;124(17):3528-35. PMID: 29975404; PMC6191340.

191. Moreira P, Patel N, Wartenberg M, Li G, Tuncali K, Heffter T, Burdette EC, Iordachita I, Fischer GS, Hata N, **Tempany CM**, Tokuda J. Evaluation of robot-assisted MRI-guided prostate biopsy: needle path analysis during clinical trials. *Phys Med Biol*. 2018 Oct 16;63(20):20NT02. PMID: 30226214; PMC6198326.
192. Wartenberg M, Schornak J, Gandomi K, Carvalho P, Nycz C, Patel N, Iordachita I, **Tempany C**, Hata N, Tokuda J, Fischer GS. Closed-Loop Active Compensation for Needle Deflection and Target Shift During Cooperatively Controlled Robotic Needle Insertion. *Ann Biomed Eng*. 2018 Oct;46(10):1582-94. PMID: 29926303; PMC6319385.
193. Fedorov A, Schwier M, Clunie D, Herz C, Pieper S, Kikinis R, **Tempany C**, Fennessy F. An annotated test-retest collection of prostate multiparametric MRI. *Sci Data*. 2018 Dec 4;5:180281. PMID: 30512014; PMC6278692.
194. Alessandrino F, Taghipour M, Hassanzadeh E, Ziaei A, Vangel M, Fedorov A, **Tempany CM**, Fennessy FM. Predictive role of PI-RADSv2 and ADC parameters in differentiating Gleason pattern 3 + 4 and 4 + 3 prostate cancer. *Abdom Radiol (NY)*. 2019 Jan;44(1):279-285. PMID: 30066169; PMC6349548.
195. O'Donohoe RL, Dunne RM, Kimbrell V, **Tempany CM**. Prostate MRI using an external phased array wearable pelvic coil at 3T: comparison with an endorectal coil. *Abdom Radiol (NY)*. 2019 Mar;44(3):1062-1069. PMID: 30324501.
196. Bi WL, Hosny A, Schabath MB, Giger ML, Birkbak NJ, Mehrtash A, Allison T, Arnaout O, Abbosh C, Dunn IF, Mak RH, Tamimi RM, **Tempany CM**, Swanton C, Hoffmann U, Schwartz LH, Gillies RJ, Huang RY, Aerts HJWL. Artificial intelligence in cancer imaging: Clinical challenges and applications. *CA Cancer J Clin*. 2019 Mar;69(2):127-157. PMID: 30720861; PMC6403009.
197. Mehrtash A, Ghafoorian M, Pernelle G, Ziaei A, Heslinga FG, Tuncali K, Fedorov A, Kikinis R, **Tempany CM**, Wells WM, Abolmaesumi P, Kapur T. Automatic Needle Segmentation and Localization in MRI with 3D Convolutional Neural Networks: Application to MRI-targeted Prostate Biopsy. *IEEE Trans Med Imaging*. 2019 Apr;38(4):1026-36. PMID: 30334789; PMC6450731.
198. Taghipour M, Ziaei A, Alessandrino F, Hassanzadeh E, Harisinghani M, Vangel M, **Tempany CM**, Fennessy FM. Investigating the role of DCE-MRI, over T2 and DWI, in accurate PI-RADS v2 assessment of clinically significant peripheral zone prostate lesions as defined at radical prostatectomy. *Abdom Radiol (NY)*. 2019 Apr;44(4):1520-1527. PMID: 30361870; PMC6440804.
199. Aksit Ciris P, Chiou JG, Glazer DI, Chao TC, **Tempany-Afdhal CM**, Madore B, Maier SE. Accelerated Segmented Diffusion-Weighted Prostate Imaging for Higher Resolution, Higher Geometric Fidelity, and Multi-b Perfusion Estimation. *Invest Radiol*. 2019 Apr;54(4):238-246 PMID: 30601292; PMC6402959.
200. van Beek EJR, Kuhl C, Anzai Y, Desmond P, Ehman RL, Gong Q, Gold G, Gulani V, Hall-Craggs M, Leiner T, Lim CCT, Pipe JG, Reeder S, Reinhold C, Smits M, Sodickson DK, **Tempany CM**, Vargas HA, Wang M. Value of MRI in medicine: More than just another test? *J Magn Reson Imaging*. 2019 Jun;49(7):e14-e25. PMID: 30145852.
201. Patel NA, Li G, Shang W, Wartenberg M, Heffter T, Burdette EC, Iordachita I, Tokuda J, Hata N, **Tempany CM**, Fischer GS. System Integration and Preliminary Clinical Evaluation of a Robotic System for MRI-Guided Transperineal Prostate Biopsy. *J Med. Robotics Res*. 2019 Jun;4(2). pii 1950001. PMID: 31485544; PMC6726403.

202. Padhani AR, Barentsz J, Villeirs G, Rosenkrantz AB, Margolis DJ, Turkbey B, Thoeny HC, Cornud F, Haider MA, Macura KJ, **Tempany CM**, Verma S, Weinreb JC. PI-RADS Steering Committee: The PI-RADS Multiparametric MRI and MRI-directed Biopsy Pathway. *Radiology*. 2019 Aug;292(2):464-474. PubMed PMID: 31184561.
203. Turkbey B, Rosenkrantz AB, Haider MA, Padhani AR, Villeirs G, Macura KJ, **Tempany CM**, Choyke PL, Cornud F, Margolis DJ, Thoeny HC, Verma S, Barentsz J, Weinreb JC. Prostate Imaging Reporting and Data System Version 2.1: 2019 Update of Prostate Imaging Reporting and Data System Version 2. *Eur Urol*. 2019 Sep;76(3):340-351. PMID: 30898406.
204. Peled S, Vangel M, Kikinis R, **Tempany CM**, Fennessy FM, Fedorov A. Selection of Fitting Model and Arterial Input Function for Repeatability in Dynamic Contrast-Enhanced Prostate MRI. *Acad Radiol*. 2019 Sep;26(9):e241-e251. PMID: 30467073; PMC6526092.
205. Fennessy FM, Fedorov A, Vangel MG, Mulkern RV, Tretiakova M, Lis RT, **Tempany CM**, Taplin ME. Multiparametric MRI as a Biomarker of Response to Neoadjuvant Therapy for Localized Prostate Cancer-A Pilot Study. *Acad Radiol*. 2019 Dec 17. PubMed PMID: 31862185.
206. Herz C, MacNeil K, Behringer PA, Tokuda J, Mehrtash A, Mousavi P, Kikinis R, Fennessy FM, **Tempany CM**, Tuncali K, Fedorov A. Open Source Platform for Transperineal In-bore MRI-guided Targeted Prostate Biopsy. *IEEE Trans Biomed Eng*. 2020 Feb;67 (2) :565-76.PMID: 31135342; PMC6874712.

Peer reviewed scientific or medical publications/materials in print or other media

Proceedings of Meetings

1. Tsai A, Yezzi A, Wells WM, **Tempany CM**, Tuckers D, Fan A, Grimson WE, Willsky A. Model-based curve evolution technique for image segmentation. *IEEE Conference on Computer Vision and Pattern Recognition, 2001. CVPR 2001; (1):463-8. December 8-14, 2001.*
2. Fan A, Wells WM, Fisher JW, Cetin M, Haker S, Mulkern RV, **Tempany CM**, Willsky AS. A unified variational approach to denoising and bias correction in MR. *Inf. Process in Med Imaging*. 2003 Jul; 18:148-59.
3. Fischer G, Iordachita I, Csoma C, Tokuda J, Mewes P, **Tempany CM**, Hata N, Fichtinger G. Pneumatically Operated MRI-Compatible Needle Placement Robot for Prostate Interventions. 2008 IEEE International Conference on Robotics and Automation, Pasadena. May 19-23, 2008.
4. Mewes P, Hata N, Tokuda J, **Tempany CM**, Csoma Csaba, DiMaio SP, Fichtinger G, Fischer G, Gobbi D. An Integrated MRI and Robot Control Software for an MRI-compatible Robot in Prostate Intervention. 2008 IEEE International Conference on Robotics and Automation, Pasadena. May 19-23, 2008.
5. Gorlitz A, Tokuda J, Hoge WS, Chu R, Panych LP, Rexin C, **Tempany CM**, Hata N. Development and validation of real-time reduced field of view imaging driven by automated needle detection for MRI-guided interventions. *SPIE Medical Imaging 2010*.
6. Song SE, Cho N, Tokuda J, **Tempany CM**, Fichtinger G, Iordachita I. Preliminary evaluation of a MRI-compatible modular robotic system for MRI guided prostate interventions. *The 3rd IEEE/RAS-EMBS International Conference on Biomedical Robotics and Biomechatronics, Anchorage. September 26-29, 2010. 2010:796-801.*

7. Risholm P, Fedorov A, Pursley J, Tuncali K, Cormack RA, Wells WM, **Tempany CM**. Probabilistic non-rigid registration of prostate images: modeling and quantifying uncertainty. Proc. IEEE Int Symp Biomed Imaging. June 9; 2011. 2011:553-6.
8. Song SE, Tokuda J, Tuncali K, **Tempany CM**, Zhang E, Hata N. Development and Preliminary Evaluation of a Motorized Needle Guide Template for MRI-guided Targeted Prostate Biopsy. Proceedings of SPIE Medical Imaging 2012; 8316:831614.
9. Song SE, Tuncali K, Tokuda J, Fedorov A, Penzkofer T, Fennessy FM, **Tempany CM**, Yoshimitsu K, Magill J, Hata N. Workflow Assessment of 3T MRI-guided Transperineal Targeted Prostate Biopsy using a Robotic Needle Guidance. Proc. SPIE Medical Imaging 2014; 9036:903612.
10. Shang W, Cole G, Li G, Harrington K, Camilo A, Tokuda J, **Tempany CM**, Hata N, Fischer G. Piezoelectrically Actuated Robotic System for MRI-Guided Prostate Percutaneous Therapy. IEEE/ASME Trans Mechatronics. 2014.
11. Meyer A, Mehrtash A, Rak M, Schindele D, Schostak M, **Tempany CM**, Kapur T, Abolmaesumi P, Fedorov F, Hansen C. Automated High Resolution Segmentation of the Prostate from Multiplanar MRI. Proc. IEEE Int Symp Biomed Imaging 2018. April 4-7, 2018. Paper 91.
12. Hata N, **Tempany CM**, Kibel A, Jonas O. MRI Guided Implantation of Implantable Microdevice to Perform in Vivo Drug Sensitivity Testing in Prostate Tumors. Proc. IEEE Int Symp Biomed Imaging 2018. April 4-7, 2018.
13. Moreira P, Patel N, Wartenberg M, Li G, Heffter T, Burdette E, Iordachita O, Fischer G, Hata N, **Tempany CM**, Tokuda J. Transperineal MR-Guided Prostate Biopsy: The Contribution of Needle Deflection to the Targeting Error. Proc. IEEE Int Symp Biomed Imaging 2018. April 4-7, 2018. Paper 783.

Reviews, Editorials

1. **Tempany CM**, Zerhouni EA. Clinical magnetic resonance imaging of the vascular system. Top Magn Reson Imaging. 1990 Mar;2(2):13-30. **Review**. PMID: 2184856.
2. Olson MC, Posniak HV, **Tempany CM**, Dudiak CM. MR imaging of the female pelvic region. Radiographics. 1992 May; 12(3):445-65. **Review**. PMID: 1609137.
3. **Tempany CM**. MR staging of prostate cancer. How we can improve our accuracy with decisions aids and optimal techniques. Magn Reson Imaging Clin N Am. 1996 Aug; 4(3):519-32. **Review**. PMID: 8873017.
4. Cheng D, **Tempany CM**. MR imaging of the prostate and bladder. Semin Ultrasound CT MR. 1998 Feb; 19(1):67-89. **Review**. PMID: 9503521.
5. Kettenbach J, Kacher DF, Koskinen SK, Silverman SG, Nabavi A, Gering D, **Tempany CM**, Schwartz RB, Kikinis R, Black PM, Jolesz FA. Interventional and intraoperative magnetic resonance imaging. Annu Rev Biomed Eng. 2000; 2:661-90. **Review**. PMID: 11701527.
6. Cantisani V, Morteale KJ, Kalantari BN, Glickman JN, **Tempany CM**, Silverman SG. Vaginal metastasis from uterine leiomyosarcoma. Magnetic resonance imaging features with pathological correlation. J Comput Assist Tomogr. 2003 Sep-Oct; 27(5):805-9. **Review**. PMID: 14501374.

7. Morteale KJ, Tuncali K, Cantisani V, Shankar S, vanSonnenberg E, **Tempany CM**, Silverman SG. MRI-guided abdominal intervention. *Abdom Imaging*. 2003 Nov-Dec; 28(6):756-74. **Review**. PMID: 14753588.
8. Warfield SK, Haker SJ, Talos IF, Kemper CA, Weisenfeld N, Mewes AU, Goldberg-Zimring D, Zou KH, Westin CF, Wells WM, **Tempany CM**, Golby A, Black PM, Jolesz FA, Kikinis R. Capturing intraoperative deformations: research experience at Brigham and Women's Hospital. *Med Image Anal*. 2005 Apr; 9(2):145-62. **Review**. PMID: 15721230.
9. Jolesz FA, Hynynen K, McDannold N, **Tempany CM**. MR imaging-controlled focused ultrasound ablation: a noninvasive image-guided surgery. *Magn Reson Imaging Clin N Am*. 2005 Aug; 13(3):545-60. **Review**. PMID: 16084419.
10. Fennessy FM, **Tempany CM**. MRI-guided focused ultrasound surgery of uterine leiomyomas. *Acad Radiol*. 2005 Sep; 12(9):1158-66. **Review**. PMID: 16099686.
11. Haker SJ, Mulkern RV, Roebuck JR, Barnes AS, DiMaio SP, Hata N, **Tempany CM**. Magnetic resonance-guided prostate interventions. *Top Magn Reson Imaging*. 2005 Oct; 16(5):355-68. **Review**. PMID: 16924169.
12. Fennessy FM, **Tempany CM**. A review of magnetic resonance imaging-guided focused ultrasound surgery of uterine fibroids. *Top Magn Reson Imaging*. 2006 Jun; 17(3):173-9. **Review**. PMID: 17414074.
13. **Tempany CM**. From the RSNA refresher courses: Image-guided thermal therapy of uterine fibroids. *Radiographics*. 2007 Nov-Dec; 27(6):1819-26. **Review**. PMID: 18025520.
14. Fennessy FM, Tuncali K, Morrison PR, **Tempany CM**. MR imaging-guided interventions in the genitourinary tract: an evolving concept. *Radiol Clin North Am*. 2008 Jan; 46(1):149-66. **Review**. PMID: 18328885; PMC3403748.
15. **Tempany CM**, Straus S, Hata N, Haker S. MR-guided prostate interventions. *J Magn Reson Imaging*. 2008 Feb; 27(2):356-67. **Review**. PMID: 18219689; PMC2683388.
16. Albert M, Song JS, Schultz D, Cormack RA, **Tempany CM**, Haker S, Devlin PM, Beard C, Hurwitz MD, Suh WW, Jolesz FA, D'Amico AV. Defining the rectal dose constraint for permanent radioactive seed implantation of the prostate. *Urol Oncol*. 2008 Mar-Apr; 26(2):147-52. **Review**. PMID: 18312933.
17. Shen SH, Fennessy FM, McDannold N, Jolesz FA, **Tempany CM**. Image-guided thermal therapy of uterine fibroids. *Semin Ultrasound CT MR*. 2009 Apr; 30(2):91-104. **Review**. PMID: 19358440; PMC2768544.
18. Afnan J, **Tempany CM**. Update on prostate imaging. *Urol Clin North Am*. 2010 Feb; 37(1):23-5. **Review**. PMID: 20152516; PMC2884280.
19. Fennessy FM, Tuncali K, Morrison PR, **Tempany CM**. MR imaging-guided interventions in the genitourinary tract: an evolving concept. *Magn Reson Imaging Clin N Am*. 2010 Feb; 18(1):11-28. **Review**. PMID: 19962090; PMC4072848.

20. **Tempany CM**, McDannold N, Hynynen K, Jolesz FA. Focused ultrasound surgery in oncology: overview and principles. *Radiology*. 2011 Apr;259(1):39-56. **Review**. PMID: 21436096; PMC3064817.
21. **Tempany CM**, Jagadeesan J, Kapur T, Bueno R, Golby A, Agar N, Jolesz FA. Multimodal imaging for improved diagnosis and treatment of cancers. *Cancer*. 2015 Mar 15; 121(6):817-27. **Review**. PMID: 25204551; PMC4352132.
22. Panych LP, **Tempany CM**. Ferenc A. Jolesz (1946-2014). *J Magn Reson Imaging*. 2015 May; 42(6):1487-8. **Review**. PMID: 25939345.
23. Mulkern RV, **Tempany CM**. In memoriam: Ferenc A. Jolesz (1946-2014). *Magn Reson Med*. 2015 Aug; 74(2):301-2. **Review**. PMID: 26077435.
24. Fischer K, McDannold N, **Tempany CM**, Jolesz FA, Fennessy FM. Potential of minimally invasive procedures in the treatment of uterine fibroids: a focus on magnetic resonance-guided focused ultrasound therapy. *Int J Womens Health*. 2015 Nov 13; 7:901-12. **Review**. PMID: 26622192; PMC4654554.
25. **Tempany-Afdhal CM**, Seltzer SE. Ferenc A. Jolesz, MD. *Radiology*. 2016 Jun; 279(3):986. **Editorial**. PMID: 27183416.
26. Hassanzadeh E, Glazer DI, Dunne RM, Fennessy FM, Harisinghani MG, **Tempany CM**. Prostate imaging reporting and data system version 2 (PI-RADS v2): a pictorial review. *Abdom Radiol (NY)*. 2017 Jan;42(1):278-89. **Review**. PMID: 27522352; PMC5247306.
27. Dunne RM, **Tempany-Afdhal C**. The role of multiparametric MRI on prostate cancer management. *Current Urology Reports*. 2017. **Review**. (in press)
28. **Tempany CM**. Editorial Comment. *Urology*. 2017 Apr;102:188-89. **Review**. PMID: 28034527.
29. Verma S, Choyke PL, Eberhardt SC, Oto A, **Tempany CM**, Turkbey B, Rosenkrantz AB. The Current State of MR Imaging-targeted Biopsy Techniques for Detection of Prostate Cancer. *Radiology*. 2017 Nov;285(2):343-56. **Review**. PMID: 29045233; PMC5673043.
30. Cornud F, Bomers J, Futterer JJ, Ghai S, Reijnen JS, **Tempany C**. MR imaging-guided prostate interventional imaging: Ready for a clinical use? *Diagn Interv Imaging*. 2018 Nov;99(11):743-753. **Review**. PMID: 30190189.
31. deSouza NM, **Tempany CM**. A risk-based approach to identifying oligometastatic disease on imaging. *Int J Cancer*. 2019 Feb 1;144(3):422-430. **Review**. PMID: 30098215.
32. van Beek EJR, Kuhl C, Anzai Y, Desmond P, Ehman RL, Gong Q, Gold G, Gulani V, Hall-Craggs M, Leiner T, Lim CCT, Pipe JG, Reeder S, Reinhold C, Smits M, Sodickson DK, **Tempany CM**, Vargas HA, Wang M. Value of MRI in medicine: More than just another test? *J Magn Reson Imaging*. 2018 Aug. **Editorial**. PMID: 30145852.

Case Reports

1. Neish AS, Frates MC, **Tempany CM**. Placenta percreta post evacuation: an unusual uterine mass on MRI. *J Comput Assist Tomogr*. 1995 Sep-Oct; 19(5):824-7. PMID: 7560338.
2. Wax JR, **Tempany CM**, Slowey MJ, Smith JF, Floyd RC. Second trimester uterine atony imitating ectopic pregnancy - magnetic resonance diagnosis. *Mil Med*. 1995 Oct 1; 60(10):534-5. PMID: 7501205.
3. Robinson JN, Norwitz ER, Mulkern RV, Brown SA, Rybicki F, **Tempany CM**. Prenatal diagnosis of pyruvate dehydrogenase deficiency using magnetic resonance imaging. *Prenat Diagn*. 2001 Dec; 21(12):1053-6. PMID: 11746163.
4. Hanstede M, **Tempany CM**, Stewart EA. Focused Ultrasound surgery of intramural leiomyomas may facilitate fertility: A case report. *Fertil Steril*. 2007 Aug; 88(2):497.e5-7. PMID: 17292361.
5. Samuel A, Fennessy FM, **Tempany CM**, Stewart EA. Avoiding treatment of leiomyosarcomas: the role of magnetic resonance in focused ultrasound surgery. *Fertil Steril*. 2008; 90:850.e9–e12. PMID: 18022163.

Letters to Editor/Invited Commentary

1. **Tempany CM**, Gatsonis C, McNeil BJ. Devil's Advocate "Staging of prostate cancer: Accuracy of MR Imaging" - Reply. *Radiology* 1995; 194:647-8.
2. **Tempany CM**. Medical therapy for benign prostatic hyperplasia. **Commentary**. *AJR* 1995; 164:16-7.
3. **Tempany CM**, Langlotz CP. Endorectal coil magnetic resonance imaging in clinically localized prostate cancer: is it accurate? *J Urol* 1997 Apr; 157(4):1371-2. PMID: 9120955.
4. D'Amico AV, Cormack RA, **Tempany CM**. MRI-guided diagnosis and treatment of prostate cancer. *N Engl J Med*. 2001 Mar; 344(10):776-7. PMID: 11236795.
5. Fennessy FM, **Tempany CM**, **Jolesz FA**, Stewart EA. Re: "ACR Appropriateness Criteria(R) on treatment of uterine leiomyomas". *J Am Coll Radiol*. 2011 Sep; 8(9):e1-2; Author reply e-3. PMID: 21889739.
6. Burstein D, Hall-Craggs M, **Tempany CM**. Many paths to parity for women in science. *Science*. 2015 Oct 16; 350(6258):286. PMID: 26472899.
7. **Tempany CM**, Kapur T. Dedication. *Magn Reson Imaging Clin N Am*. 2015 Nov; 23(4). PMID: 26499286.
8. **Tempany CM**, Kapur T. Magnetic Resonance-Guided Interventions: The State of the Art. *Magn Reson Imaging Clin N Am*. 2015 Nov; 23(4). PMID: 26499285.

Books, Monographs, and Textbooks

Editor

1. **Tempany CM**. Editor. *MR and Imaging of the Female Pelvis*. Mosby Yearbook, Inc. January 1995.
2. **Tempany CM**. Editor. *The Male Pelvis*. In: *MRI Clinics of North America*: W.B. Saunders, August 1996.

3. **Tempany CM**, Kapur T. Editors. *MR-Guided Interventions*. Philadelphia, PA: Elsevier, 2015.
4. **Tempany CM**, Kapur T. Magnetic Resonance-Guided Interventions: The State of the Art. *Magn Reson Imaging Clin N Am*. 2015 Nov; 23(4). PMID: 26499285.

Author

1. **Tempany CM**, Yang A. Magnetic resonance imaging and spectroscopy in evaluating renal allografts. *In: Burdick J, Racusen LC, Solez K, Williams M, Eds. Kidney Transplant Rejection: Diagnosis and Treatment*. 2nd Edition, Marcel Dekker, Inc, pp. 487-502.
2. **Tempany CM**. The use of Magnetic Resonance Imaging in cancer diagnosis. *In: "Current Therapy in Oncology"*, Niederhuber JE, Ed. Mosby Yearbook, pp. 73-82.
3. **Tempany CM**. Normal Magnetic Resonance Imaging Anatomy. *In: MR and Imaging of the Female Pelvis*. Mosby Yearbook, Inc. January 1995, pp. 35-54.
4. **Tempany CM**. MRI techniques and protocols. *In: MR and Imaging of the Female Pelvis*. Mosby Year-Book, Inc. January 1995, pp. 55-74.
5. Fielding JR, Morton RA, **Tempany CM**. Congenital and pediatric disorders of the Mullerian and genitourinary system. *In: MR and Imaging of the Female Pelvis*. Mosby Year-Book, Inc. January 1995, pp. 75-104.
6. **Tempany CM**, Yousef N. Benign disease of the uterus. *In: MR and Imaging of the Female Pelvis*. Mosby Yearbook, Inc. January 1995, pp. 131-54.
7. Brown DL, Silverman SG, **Tempany CM**. Ovarian and adnexal diseases. *In: MR and Imaging of the Female Pelvis*. Mosby Yearbook, Inc. January 1995, pp. 185-234.
8. Horton KM, **Tempany CM**. MRI in pregnancy. *In: MR and Imaging of the Female Pelvis*. Mosby Year-Book, Inc. January 1995, pp. 235-60.
9. **Tempany CM**, Fielding JR. MRI of the female pelvis. *In: Clinical Magnetic Resonance Imaging*. Robert Edelman ed. 2nd Edition. 1996, W.C. Saunders, pp. 1432-65.
10. **Tempany CM**. MR staging of prostate cancer: How we can improve our accuracy with decision aids and optimal techniques. *In: Magnetic Resonance Imaging Clinics of North America. The Male Pelvis*. August 1996, pp. 519-32.
11. D'Amico AV, McGovern FT, Church PA, **Tempany CM**. The staging of prostate cancer. *In: Prostate Cancer: A multidisciplinary Guide*. Kantoff PW, Wishnow KI, Loughlin KR, Eds. Blackwell Scientific 1997, pp. 41-56.
12. Wong TZ, Silverman SG, Fielding JR, **Tempany CM**, Hynynen K, Jolesz FA. Open-configuration MR imaging, intervention and surgery of the urinary tract. *In: Urologic Clinics of North America*. Guest Editor- Kevin Loughlin MD. Feb 1998.
13. DiSalvo DN, Laing FC, **Tempany CM**. The dysfunctional pelvis: The uterus in infertility. *In: Goldstein SR, Benson CB. Eds. Imaging of the Infertile Couple*. London: Martin Dunitz, 1998.
14. D'Amico AV, Cormack RC, **Tempany CM**. Endorectal coil MRI for the prostate gland. *In: Endocavitary MRI of the Pelvis*. N. DeSouza, Ed. Dunitz Martin Ltd., 2001.

15. **Tempany CM**, Haker S. Magnetic resonance-guided prostate biopsy. *In: Image-Guided Diagnosis and Treatment of Cancer*. D'Amico AV, Loeffler JS, Harris JR, Eds. Humana Press Inc. Humana Press Inc, 2003, pp. 35-52.
16. Szot A, **Tempany CM**. Image guided minimally invasive therapy. *In: Urologic Oncology*. D'Amico AV, Richie J, Eds. Elsevier Inc. December 2004.
17. **Tempany CM**, Stewart EA, Hynynen K, McDannold N. Focused Ultrasound for Tumor Ablation. *In: Tumor Ablation: Principles and Practice*. van Sonnenberg E, McMullen W, Eds. Springer-Verlag, NY 2005, pp. 273-84.
18. Jolesz FA, Hynynen K, McDannold N, **Tempany CM**. MR Imaging-Controlled Focused Ultrasound Ablation: A Noninvasive Image Guided Surgery *In: Magnetic Resonance Imaging Clinics of North America*. Elsevier, Inc. August 2005, pp. 545-60.
19. Albert M, Hurwitz M, Beard C, **Tempany CM**, Cormack RA, D'Amico AV. Magnetic Resonance Image-Guided Partial Prostatic Irradiation in Select Patients with Clinically Localized Adenocarcinoma of the Prostate. *In: Practical Brachytherapy: Applications and Techniques*, Devlin Ed. Lippincott, Baltimore 2006.
20. Ascher SM, Siewert B, Troiano R, **Tempany CM**, Reinhold C. Female pelvis: benign vaginal, uterine and ovarian conditions. *In: Edelman RR, Hesselink JR, Zlatkin MB, Crues JV III, Eds. Clinical magnetic resonance imaging*. 3rd Ed. New York, NY: Elsevier.
21. Hanstede M, Stewart EA, **Tempany CM**. MR-guided Focused ultrasound surgery for uterine Fibroids. *In: Hynynen K and Jolesz FA. Eds. MR-guided Focused Ultrasound Surgery*. 2007, pp. 111-27.
22. Jolesz FA, **Tempany CM**. Current and future clinical applications of magnetic resonance image-guided focused ultrasound surgery. *In: Hynynen K and Jolesz FA. Eds. MR-guided Focused Ultrasound Surgery*. 2007, pp. 81-99.
23. Erturk SM, Johnston C, **Tempany CM**, Van den Abbeele AD. Imaging Tools in Human Research. *In: Clinical and Translational Science: Principles of Human Research*, Eds. Robertson D and William GH. Burlington: Academic Press; 2008, pp. 87-104.
24. Kijewski MF, **Tempany CM**, Golby AJ, Jolesz FA. PET/CT for Interventional Use. *In: Intraoperative Imaging and Image-Guided Therapy*. Ed. Jolesz FA. New York: Springer. 2014, pp. 225-32.
25. **Tempany CM**, Fichtinger G. MR Imaging and the Biopsy of Prostate Cancer. *In: Intraoperative Imaging and Image-Guided Therapy*, Ed. Jolesz FA. New York: Springer. 2014, pp.739-56.
26. Dunne RM, O'Neill, AC, **Tempany CM**. Imaging Tools in Clinical Research: Focus on Imaging Technologies. *In: Clinical and Translational Science*. 2nd Ed. David Robertson and Gordon H. Williams. Elsevier Inc. 2017, pp. 157-76.
27. Dunne RM, O'Neill AC, **Tempany CM**. Imaging Tools in Human Research: Focus on Image-Guided Intervention. *In: Clinical and Translational Science*. 2nd Ed. David Robertson and Gordon H. Williams. Elsevier Inc. 2017, pp. 181-90.

Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings

Abstracts

1. Rahmouni A, **Tempany CM**, Zerhouni EA. The role of MRI analysis of tissue signal intensity in the management of lymphomas. International Congress of Radiology, Paris 1989.
2. **Tempany CM**, Zerhouni EA, Epstein JI, Walsh PC. Evaluation of the role of MRI in predicting capsular penetration to the neurovascular bundle by prostate cancer. SMRM/RSNA 1989.
3. **Tempany CM**, Rahmouni A, Mann R, Jones R, Zerhouni EA. MRI in lymphoma-direct pathological correlation. RSNA 1989.
4. Templeton P, **Tempany CM**, Yang A, Zerhouni EA. MR imaging in the assessment of mediastinal venous thrombosis. RSNA 1989.
5. Brem R, **Tempany CM**, Yang A, Carter B, Epstein JI, Walsh PC, Zerhouni EA. Magnetic Resonance Imaging in the detection of occult prostate cancer. SMRI 1990.
6. Parravano JG, Wolff K, Frostenson PJ, **Tempany CM**, Pyeritz RE, Zerhouni EA. Pre- and postoperative assessment of the aorta and pulmonary arteries in the Marfan patient. SMRM 1990.
7. Brem R, **Tempany CM**, Yang A, Carter B, Epstein JI, Walsh PC, Zerhouni EA. Magnetic Resonance Imaging in the detection of occult prostate cancer. AUA 1990.
8. Frostenson P, **Tempany CM**, Herold CL, Rosenshein N, Zerhouni EA. The role of MRI in the management of gestational trophoblastic disease. ARRS 1990.
9. Brem R, **Tempany CM**, Yang A, Carter B, Epstein JI, Walsh PC, Zerhouni EA. Magnetic Resonance Imaging in the detection of occult prostate cancer. RSNA 1990.
10. **Tempany CM**, Zerhouni EA, Epstein JI, Walsh PC. Neurovascular bundle identification and invasion by prostate cancer: comparison of MR imaging with conventional body and endorectal coil techniques. RSNA 1990.
11. Wolff KA, Herold CJ, **Tempany CM**, Parravano JG, Zerhouni EA. Aortic Dissection: atypical patterns seen at MR imaging. RSNA 1990.
12. Frostenson PJ, Herold CJ, **Tempany CM**, Hsu J, Fishman EK, Zerhouni EA. Spectrum of MR imaging findings of peripheral neurofibromatosis. RSNA 1990.
13. Frostenson PJ, **Tempany CM**, Herold CJ, Rosenshein N, Zerhouni EA. MR imaging assessment of resistant gestational trophoblastic disease. RSNA 1990.
14. Chako AC, Zerhouni EA, **Tempany CM**. Effect of slice acquisition direction on image quality in thoracic MRI. RSNA 1990.
15. **Tempany CM**, Morton R, Parravano JJ, Zinreich SJ, Zerhouni EA. MR imaging of the renal veins: assessment of venous thrombosis. SMRM 1990. AUA 1991.
16. **Tempany CM**, Rahmouni AD, Epstein JI, Walsh PC, Zerhouni EA. Invasion of the Neurovascular Bundle by Prostate Cancer: Evaluation with MR Imaging. Radiology 1991; 181:107-12, RSNA 1991.
17. Morton RA, **Tempany CM**, Mitchell S, Zerhouni EA, Marshall FF. Non-invasive diagnosis of renal vein thrombosis. J Urol, 1991; 145:353A. AUA 1991.

18. **Tempany CM**, Morton R, Barker P. Evaluation of MRI and H-1 spectroscopic correlates with age-associated changes of spontaneous benign prostatic hyperplasia (BPH) in a canine model. RSNA 1991.
19. Schwartz LH, Seltzer SE, **Tempany CM**, Silverman SG, Piwnica-Worms D, Adams DF, Herman L, Hooshmand R. Evaluation of AMI-25, a super paramagnetic iron oxide contrast agent, with conventional and fast spin echo pulse sequences. SMRM 1993.
20. Schwartz LH, Seltzer SE, Adams DF, **Tempany CM**, Piwnica-Worms D, Silverman SG, Herman L, Herman LT, Hooshmand R. Effects of superparamagnetic iron oxide (AMI-25) on liver and spleen imaging using conventional and fast spin echo pulse sequences. CMR 1993.
21. Zerhouni EA, Rutter C, Hamilton SR, Balfe DM, Megibow AJ, Francis IR, Moss AA, Heiken J, **Tempany CM**, Aisen A, Weinreb J, Gatsonis C, McNeil BJ. Computed Tomography and MRI in the staging of colorectal carcinoma: Report of the Radiologic Diagnostic Oncology Group. RSNA 1993.
22. Allen RP, Burnett AL, **Tempany CM**. Dover CJ, Brendler CB. Evaluation of erectile function in men with sickle cell disease. AUA 1993.
23. Ellis JH, **Tempany CM**, Sarin MS, Gatsonis C, Rifkin MD, McNeil BJ. MR imaging and sonography of early prostate cancer: Pathologic and imaging features that influence identification and diagnosis. RSNA 1993.
24. **Tempany CM**, Zhou X, Zerhouni EA, Rifkin M, Quint L, Piccoli C, Ellis J, McNeil BJ. Staging of prostate cancer with MRI: Results of radiology diagnostic oncology group project: comparison of different techniques, including the endorectal coil. RSNA 1993.
25. Silverman SG, Pearson GDN, Seltzer SE, Polger M, **Tempany CM**, Brown DL. Small hyperechoic renal masses: comparison of spiral and conventional CT for the diagnosis of angiomyolipoma. ARRS 1995.
26. Mok PL, Pomeroy O, **Tempany CM**, Adams D, Frenna TH. MR imaging of breast specimens. AUR 1995.
27. Pomeroy O, **Tempany CM**, Hiramatsu H, Frenna TH, Koichi O, Jolesz FA. High resolution MRI of breast fibroadenomas using T₂-weighted fat saturated FSE imaging. AUR 1995.
28. D'Amico AV, Whittington R, Malkowicz SB, Loughlin KR, Schultz D, Schnall MD, **Tempany CM**, Tomaszewski JE, Renshaw AA, Wein A. A temporal analysis of postoperative PSA failure in patients with positive surgical margins; implications on the use of adjuvant therapy. New England AUA 1995.
29. **Tempany CM**, Banson ML, D'Amico AV, Propert K, Loughlin KR. Evaluation of endorectal coil MRI in the prediction of surgical margin status after radical prostatectomy. RSNA 1995.
30. **Tempany CM**, Pickett RM, Seltzer SE, Getty DJ, Swets JA, McNeil BJ. Endorectal coil MR imaging features of advanced prostate cancer. Awarded a Certificate of Merit: cum laude. RSNA 1995.
31. Tello R, **Tempany CM**, Chai J, Ainslie M, Adams D. MR hystero-graphy using axial long TR with T₂-weighted imaging with 3D projections of the uterus. Royal Australian College of Radiology 46th Annual Meeting 1996.

32. David V, **Tempany CM**, Rein M, Mulkern RV, Jolesz FA. Imaging of leiomyomas at 0.5T in an open system. ISMRM 1996.
33. Fielding JR, Heller HT, Fox LA, Silverman SG, **Tempany CM**, Seltzer SE. Spiral CT in the evaluation of flank pain: overall accuracy and feature analysis. RSNA 1996.
34. **Tempany CM**, Caudry D, Herman L, Gatsonis C, McNeil BJ. Evaluation of interobserver variability in prostate MR. RSNA 1996.
35. Mulkern RV, Hushek S, Fielding JR, Silverman SG, Kuhn L, Jaramillo D, Winalski C, **Tempany CM**, Jolesz FA. Inner volume fast spin echo sequences for interventional MR applications. ISMRM 1997.
36. Sica GT, Lippert JA, Kavanagh PV, Hunsaker A, **Tempany CM**, Adams DF. Dynamic contrast-enhanced magnetic resonance imaging in the assessment of malignant pleural mesothelioma. RSNA 1997.
37. Sica GT, Ward V, **Tempany CM**, Adams DF. Right ventricular dysplasia: Evaluation of MR imaging criteria. RSNA 1997.
38. Durfee S, Muto M, Sheets E, Zou K, Crum C, **Tempany CM**. The role of MR in staging cervical cancer. RSNA 1997.
39. Kurtz AB, Tsimikas JV, **Tempany CM**, Mitchell DG, Wechsler RJ, Silverman SG, Brown D, Hamper UM, Kuhlman JE, Kurman RE, Arger PE, Coleman BG, Siegelman ES, Francis I, Bree RI, McNeil BJ. The comparative value of duplex Doppler, CT and MR in ovarian cancer identification and staging: Correlation with surgery and pathology. A Report of the Radiology Diagnostic Oncology Group. AIUM/ARRS 1998.
40. Pugach ME, Sica GT, Mukerjee A, Koniaris L, Goldhaber S, **Tempany CM**. A comparison of Magnetic Resonance Venography (MRV), venous ultrasound and venography in the diagnosis of isolated calf vein thrombosis. AUR 1998.
41. **Tempany CM**, D'Amico AV, Cormack RA, Kumar S, Silverman SG, Jolesz FA. MR guided prostate brachytherapy: A new approach to seed implantation. NE-AUA 1998.
42. Kumar S, **Tempany CM**, Cormack RA, D'Amico AV, Ritchie JR. Magnetic resonance prostate brachytherapy: a new technique to minimize acute urological trauma. NE-AUA 1998.
43. Cormack RA, Kooy HM, **Tempany CM**, D'Amico AV. Prostate brachytherapy under interventional MR guidance with real time dosimetric feedback. NE-AUA 1998.
44. Kooy HM, Cormack RA, Mathiowitz G, **Tempany CM**, D'Amico AV. A software system for interventional MR guided prostate brachytherapy. ASTRO 1998.
45. McTavish JD, D'Amico, Cormack RA, Jolesz FA, **Tempany CM**. Evaluation of interventional MRI images (0.5T) of the prostate gland compared to endorectal coil MRI images (1.5T) in men undergoing MR guided prostate brachytherapy. pp. 1972. ISMRM 1999.
46. Fielding JR, Schreyer A, **Tempany CM**, D'Amico AV, Kumar S, Juliani K, Zou K, Kikinis R. MRI-based volume measurement of the periurethral zone of the prostate: correlation with bladder wall thickness and obstructive symptoms. ISMRM 1999.

47. **Tempany CM**, D'Amico AV, Cormack RA, Wong T, Kacher DS, Tuncali K, Kumar S, Kooy H, Topolus G, Silverman SG, Jolesz FA. Interventional MR guided prostate brachytherapy: Feasibility and early clinical experience. ISMRM 1999.
48. Cormack RA, **Tempany CM**, D'Amico AV. Dosimetric consequences of needle placement during MR guided brachytherapy of the prostate. RSNA 1999.
49. **Tempany CM**, Frates MC, Kumar AJ, Ward VL, Benson CB, Nadel AS. MR evaluation for fetal anomalies of the central nervous system and genitourinary system. RSNA 1999.
50. Brown DL, Zou K, **Tempany CM**, Frates MC, Silverman SG, McNeil BJ, Kurtz AB. Primary versus secondary ovarian malignancy: comparison of imaging findings of the ovarian masses in the RDOG study. Radiology. 1999; 213:218. RSNA 1999.
51. Schreyer AG, **Tempany CM**, D'Amico AV, Cormack RA, Hata N, Kikinis R. Image fusion (MR/CT) for prostate gland analysis after brachytherapy. RSNA 1999.
52. Cheng D, Thibodeau S, Tan S, **Tempany CM**. Comparison of Fast Recovery Fast Spin echo and conventional fast spin echo for T₂-weighted imaging of the prostate gland, 1436:188. ISMRM 2000.
53. Schierlitz L, Dumanli H, Schreyer AG, Robinson JN, Kikinis R, Jolesz FA, **Tempany CM**. Three-dimensional magnetic resonance imaging of the fetal brain. ISMRM 2000.
54. Schierlitz L, Hüppi PS, Jakab M, Zou K, Zientara G, Kikinis R, Frates M, **Tempany CM**, Jolesz FA. Three dimensional modeling and volume assessment of fetal and neonatal intracranial ventricles. ISMRM 2001.
55. Contreras M, Thibodeau S, Sica GT, Zou K, Mulkern RV, **Tempany CM**. T₂-weighted MRI of the liver comparison of fast recovery fast spin echo and single shot fast spin echo sequences. ISMRM 2001.
56. Zou KH, O'Malley J, Caudry DJ, **Tempany CM**, McNeil BJ. Bayesian statistical hierarchical nonlinear regression models for ROC analysis: the accuracy of diagnostic markers for prostate cancer staging: an RDOG experience. Radiology 2001; 221:426. RSNA 2001.
57. **Tempany CM**, Stewart EA, McDannold N, Quade B, Hynynen K, Jolesz FA. MR imaging-guided focused ultrasound surgery of leiomyomas of the uterus: Early experience. Radiology. 2001; 221:357. RSNA 2001.
58. **Tempany CM**, Haker S, D'Amico AV, Cormack RA, Weinstein M, Jolesz FA, Hata N, Kikinis R. MR guided prostate biopsy: Feasibility and early clinical evaluation. Radiology. 2001; 221:260. RSNA 2001.
59. Bharatha A, Hirose M, Hata N, Warfield SK, Ferranti M, Zou KH, **Tempany CM**. Three-dimensional finite element-based deformable registration of pre- and intraoperative prostate imaging. Radiology. 2001; 221:224. RSNA 2001.
60. Chan I, Haker S, Mulkern RV, Zou KH, Zhang J, Maier SE, Wells WM, Cormack RA, Kikinis R, **Tempany CM**. A statistical comparison of multi-parametric MR for prostate cancer. Radiology. 2002. RSNA 2002.

61. Szot A, Haker S, D'Amico AV, Cormack RA, **Tempny CM**. Delineation and registration of neurovascular bundles using pre- and post-magnetic resonance guided prostate brachytherapy images. *Radiology*. 2003. pp. 687. RSNA 2003.
62. Kim ES, Cormack RA, Haker S, **Tempny CM**, Wells WM. A Comparison between Affine and Rigid MR and CT Registrations for Prostate Brachytherapy Dosimetry. RSNA 2004.
63. So MJ, Fennessy FM, Zou K, Stewart EA, Rybicki F, **Tempny CM**, McDannold N, Hynynen K, Jolesz FA. Effectiveness of MR-guided Focused Ultrasound Surgery Treated Uterine Leiomyomas Correlated with Menstrual Cycle Phase. RSNA 2004.
64. Glantz JN, Hesley GK, Brandt KR, Felmler JP, Brown DL, **Tempny CM**, So MJ. Utilization of MR Imaging for the Selection of Patients for MR-guided Focused Ultrasound Surgery of Uterine Fibroids. RSNA 2004.
65. Fennessy FM, So MJ, McDannold N, Haker S, Zou K, **Tempny CM**, Hynynen KH, Rybicki FJ, Jolesz FA, Stewart EA. Six Months Post MR-guided Focused Ultrasound Surgery of Uterine Leiomyomas: Correlation of Volume Change with Non-Perfusion Treatment Volume and Sonication Number. RSNA 2004.
66. Zou KH, Gastwirth JL, Fielding JR, **Tempny CM**. Bootstrap and Jackknife Goodness-of-Fit Tests for Receiver Operating Characteristic Curves Derived from Continuous Diagnostic Test Data. RSNA 2004.
67. Haker SJ, Szot Barnes A, Maier SE, **Tempny CM**, Mulkern RV. Diffusion Tensor Imaging for Prostate Cancer Detection: Preliminary Results from a Biopsy-Based Assessment. ISMRM 2005.
68. So MJ, Haker S, Zou KH, Szot Barnes A, Cormack RA, Ritchie J, D'Amico AV, **Tempny CM**. Clinical Evaluation of MR-Guided Prostate Biopsy. ISMRM 2005.
69. Fennessy FM, So MJ, Hesley GK, Hynynen KH, Stewart EA, **Tempny CM**, et al. Evaluation of the Safety and Efficacy of a Continued Access Study for MR-guided Focused Ultrasound Surgery (MRgFUS) of Uterine Fibroids. RSNA 2005.
70. Fennessy FM, So MJ, McDannold N, Zou KH, Stewart EA, **Tempny CM**, et al. Evaluation of Symptom Relief and Fibroid Reduction 1 Year following MR guided Focused Ultrasound Surgery. RSNA 2005.
71. So MJ, Rybicki FJ, Fennessy FM, Zou KH, Stewart EA, **Tempny CM**. Treatment Outcome in MR-Guided Focused Ultrasound Surgery (MRgFUS) for Uterine Fibroids: Analysis of the Effect of Baseline Uterine Size and Number of Fibroids. RSNA 2005.
72. So MJ, Rybicki FJ, Fennessy FM, Zou KH, Stewart EA, **Tempny CM**. Treatment Outcome in MR-Guided Focused Ultrasound Surgery (MRgFUS) for Uterine Fibroids: Analysis of the Effect of Baseline Uterine Size and Number of Fibroids. ISTU 2005.
73. Hata N, Blumenfeld P, DiMaio SP, Zou K, Haker S, **Tempny CM**. Needle Placement Accuracy in MRI-Guided Prostate Biopsy of Prostate Cancer, pp. 294. ISMRM 2006.
74. Roebuck JR, Haker SJ, **Tempny CM**, Rybicki FJ, Maier SE, Mulkern RV: Diffusion Tensor Imaging of the Prostate: Low Anisotropies in Central Gland and Peripheral Zone in Men with Adenocarcinoma. Proceedings of the ISMRM 14th Annual Meeting, Seattle. May 6-12, 2006.

75. Szot Barnes A, Haker SJ, Maier SE, **Tempany CM**, Mulkern RV. Decreased diffusion coefficients in suspected prostate cancer regions in peripheral zone: A comparison with increased (Cho + Cr)/Cr ratios from MRS. ISMRM 14th Scientific Meeting and Exhibition, Seattle. May 6-12, 2006.
76. Doyle J, Betjes H, Missmer SA, Fennessy FM, **Tempany CM**, Stewart EA, MRI-guided focused ultrasound ablation (MRgFUS) of uterine fibroids: clinical predictors of successful outcome at three years. *Fertility & Sterility* 2007.
77. Wong PYH, Hata N, Szot Barnes A, Haker S, Zou K, D'Amico AV, **Tempany CM**. Displacement of neurovascular bundles before and after MRI-guided prostate brachytherapy. pp. 794. ISMRM-ESMRMB 2007.
78. Roebuck JR, Mitsouras D, Haker SJ, Rybicki FJ, **Tempany CM**, Mulkern RV. Carr-Purcell-Meiboom-Gill (CPMG) imaging of prostate cancer; trading time for information; High quality T₂ images and quantitative T₂ values for cancer discrimination. ISMRM-ESMRMB 2007.
79. Lenard ZM, McDannold N, Fennessy FM, Stewart EA, Jolesz FA, Hynynen K, **Tempany CM**. Predictors of Success in MRI-Guided Focused Ultrasound Therapy of Uterine Leiomyomas, pp. 157. ISMRM-ESMRMB 2007.
80. Gessman R, **Tempany CM**, McDannold N. Predicted prostate cooling from water-cooled focused ultrasound rectal probe utilizing MRI dynamic contrast enhanced perfusion measurements. RSNA 2007.
81. Tokuda J, DiMaio SP, Fischer G, Csoma C, Gobbi D, Fichtinger G, Hata N, **Tempany CM**, Real-time MR Imaging Controlled by Transperineal Needle Placement Device for MRI-guided Prostate Biopsy. ISMRM 2008.
82. Haker S, Cormack RA, Suh W, **Tempany CM**. MR to Ultrasound Image Registration for TRUS-guided Prostate Brachytherapy Planning. RSNA 2008.
83. Fennessy FM, **Tempany CM**, Kong C, Swan JS. Short-term Utility Analysis of Fibroid Treatment Options and Utility Analysis of Fibroid Treatment Outcomes. RSNA 2008.
84. Westphalen AC, **Tempany CM**. Advanced MR Imaging after External Beam Radiation Therapy of Prostate Cancer. RSNA 2008.
85. Oliveira GR, Haker S, **Tempany CM**, Mulkern RV. Incidental Findings of Abnormal Prostate T₂W Signal in Pelvic MRI Examinations. ARRS 2009.
86. Oh WK, Febbo PW, Fennessy FM, Taplin ME, Scibelli G, Hayes J, Lowell J, Santor AO, Choueiri TK, Kantoff PW, **Tempany CM**, Bublely G, Ross RW. Phase II study of neoadjuvant chemotherapy with docetaxel and bevacizumab in patients (pts) with high-risk localized prostate cancer: A Prostate Cancer Clinical Trials Consortium Trial. ASCO 2009.
87. McDannold N, Ziso H, Assif B, Hananel A, Vykhodtseva N, Gretton P, Pilatou M, Haker S, **Tempany CM**. MRI-guided focused ultrasound (MRgFUS) system for thermal ablation of prostate cancer: Preclinical evaluation in canines, pp. 2453. ISMRM 2009.
88. Qin L, Schmidt EJ, Santos J, Hoge WS, **Tempany CM**, Butts-Pauly K, Stevenson WG, and Dumoulin DL. Prospective motion correction using an MR-Tracking Tetrahedron for intra-cavitary MRI. ISMRM-ESMRMB 2010.

89. Fennessy FM, Oguro S, Tang Y, Mulkern RV, Haker S, Schmidt EJ, Gupta S, **Tempany CM**. Intersequence variability in multiparametric-derived 3D prostate tumor volumetrics at 3.0 T. ISMRM-ESMRMB 2010.
90. Kuo N, Lee J, **Tempany CM**, Stuber M, Prince J. Seed Localization in MRI-Guided Prostate Brachytherapy Using Inversion-recovery with ON-resonant Water Suppression (IRON). ISMRM-ESMRMB 2010.
91. Song S, Cho NB, Iordachita I, Fischer GS, Tokuda J, Hata N, Fichtinger G, **Tempany CM**. Development of a Pneumatic Robot for MRI- guided Transperineal Prostate Intervention. ISMRM-ESMRMB 2010.
92. Chu, R, Hoge WS, Tokuda J, Zientara G, **Tempany CM**, Panych LP. Development of a Real-Time Platform for Monitoring Prostate Biopsy Procedures Using a Single-shot Fast-spin Echo Sequence with Reduced FOV. RSNA 2010.
93. Fennessy FM, Mulkern RV, **Tempany CM**, Tang Y, Roebuck J, Richie J. Does Qualitative MRSI and Contrast-enhanced erMRI Add Benefit to Tumor Volume as Predictors of Response to Neoadjuvant Therapy in High Risk Prostate Cancer. RSNA 2010.
94. Fedorov A, Tuncali K, Fennessy FM, Tokuda J, Hata N, Wells WM, Kikinis R, and **Tempany CM**. Hierarchical Image Registration for Improved Sampling during 3T MRI-guided Transperineal Targeted Prostate Biopsy. ISMRM 2011.
95. Maier SE, Tang Y, Panych LP, Mulkern RV, **Tempany CM**. Non-Monoexponential Diffusion Signal Decay in Prostate Cancer. ISMRM 2011.
96. Panych LP, Chu R, Tang Y, Maier SE, **Tempany CM**, Mulkern RV. Rapid quantitative T_2 imaging of prostate cancer using a reduced FOV single-shot fast-spin-echo sequence. ISMRM 2011.
97. Tokuda J, Tuncali K, Iordachita I, Song SE, Fedorov A, Oguro S, Lasso A, Fennessy FM, Tang Y, **Tempany CM**, Hata N. Preliminary Accuracy Evaluation of 3T MRI-guided Transperineal Prostate Biopsy with Grid Template. ISMRM 2011.
98. Fennessy FM, Gupta SN, Fedorov A, Mulkern RV, Tang Y, Franco F, Tuncali K, Schmidt EJ, **Tempany CM**. A comparison between arterial input function approaches for high temporal resolution pharmacokinetic analysis of prostate cancer at 3.0T. ISMRM 2011.
99. Tuncali K, Tokuda J, Fedorov A, Iordachita I, Song SE, Oguro S, Lasso A, Fennessy FM, Tang Y, Hata N, **Tempany CM**. 3T MRI-Guided Transperineal Targeted Prostate Biopsy: Clinical Feasibility, Safety & Early Results. ISMRM 2011.
100. Franco F, Fennessy FM, Fedorov A, Tuncali K, Tokuda J, Gupta S, **Tempany CM**. Correlation of Histology from MR-guided Transperineal Prostate biopsy with Multiparametric MR Imaging: A Feasibility Study. ISMRM 2011.
101. Qin L, Schmidt EJ, Santos J, Hoge WS, **Tempany CM**, Butts-Pauly K, Stevenson WG, and Dumoulin DL. Prospective motion correction for intra-cardiac 3D delayed enhancement MRI using an MR-Tracking Tetrahedron. ISMRM 2011.
102. Risholm P, Fedorov A, Tuncali K, Fennessy FM, Wells WM, **Tempany CM**, Cormack RA, Harvard Medical School, Boston, MA. Evaluation of a Probabilistic Non-Rigid Registration Method for Improved Intra-operative Target Definition in 125-I Permanent Prostate Implants. AAPM 2011.

103. Gupta S, Schmidt EJ, Mulkern RV, Fedorov A, Hancu I, Zhu Y, **Tempany CM**, Fennessy FM. A Method for Correcting T₁ Maps of Prostate at 3T Obtained by Variable Flip Angle Imaging. ISMRM 2012.
104. Fennessy FM, Fedorov A, Gupta S, Wells WM, Mulkern RV, **Tempany CM**. Assessment of Abnormal ADC Matched Voxels with DCE Parameters for Characterization of Prostate Cancer at 3T. ISMRM 2012.
105. Fedorov A, Ibanez L, Tuncali K, Mulkern RV, Wells WM, **Tempany CM**, Fennessy FM. Deformable Registration for Recovering Image Distortions in DWI MRI of the Prostate at 3T. ISMRM 2012.
106. Tuncali K, Fedorov A, Fennessy FM, Gupta S, Tokuda J, Song SE, Hata N, Mulkern RV, **Tempany CM**. Predictive value of 3T mpMRI: Correlation with MRI-guided transperineal targeted prostate biopsy outcomes. ISMRM 2012.
107. Fedorov A, Wells WM, Tuncali K, Gupta S, Fennessy FM, **Tempany CM**. Machine Learning for Target Selection in MR-Guided Prostate Biopsy: A Preliminary Study. ISMRM 2012.
108. Hegde JV, Chen M, Mulkern RV, Fennessy FM, D'Amico AV, **Tempany CM**. Preoperative 3-Tesla multiparametric endorectal MRI: a predictive marker for upgrading and upstaging at radical prostatectomy in men with clinically localized prostate cancer. RSNA 2012.
109. Chu, R, Hoge WS, Tokuda J, Zientara G, **Tempany CM**, Panych LP. Development of a Real-Time Platform for Monitoring Prostate Biopsy Procedures Using a Single-shot Fast-spin Echo Sequence with Reduced FOV. RSNA 2010.
110. Tokuda J, Borza T, Fennessy FM, Kibel AS, **Tempany CM**. Roles of Patient-specific 3D Model Based on Preoperative MRI for Robot-Assisted Laparoscopic Prostatectomy. AUA 2014.
111. Song SE, Tuncali K, Tokuda J, Fedorov A, Penzkofer T, Fennessy FM, **Tempany CM**, Yoshimitsu K, Magill J, Hata N. Workflow Assessment of 3T MRI-guided Transperineal Targeted Prostate Biopsy using a Robotic Needle Guidance; 8316. Proc. SPIE Medical Imaging 2014.
112. Ciris PA, Damato AL, **Tempany CM**, Schmidt EJ, Viswanathan AN. Preliminary Study of Oxygenation Assessment in Residual Cervical Cancer after External Beam Radiation using Blood Oxygenation Level Dependent (BOLD) MRI. American Brachytherapy Society 2014.
113. Fedorov A, Tuncali K, Panych LP, Fairhurst J, **Tempany CM**, Maier SE. Single-shot and Readout Segmented EPI: Geometric Fidelity of 3T Prostate DWI. Program number: 2555, traditional poster presentation, May 14, 2014. 16:00-17:00. Session: Diffusion: Acquisition Strategies. ISMRM 2014.
114. Kobus T, Fedorov A, Kimbrell V, Kapur T, Mulkern RV, **Tempany CM**. Comparison of an Inflatable Single Loop and Rigid Dual Channel Endorectal Coil for Prostate Imaging at 3T. ISMRM 2014.
115. Loew W, Ciris PA, Wang W, Schmidt EJ, Dumoulin CL, **Tempany CM**, Tse ZTH. Novel Prostate Strain Imaging Platform with Endo-Rectal Probe Incorporating Tetrahedral MR-tracking and Balloon Compression. Poster. ISMRM 2014.
116. Penzkofer T, Tuncali K, Fennessy FM, Tokuda J, Fedorov A, Song SE, Hata N, **Tempany CM**. Transperineal in-bore 3T MRI Guided Prostate Biopsy in Active Surveillance Patients: Higher Prevalence of Anteriorly Located Positive Prostate Cancer Targets. ISMRM 2014.

117. Kobus T, Fedorov A, **Tempany CM**, Mulkern RV, Dunne R, Maier SE. Bi-exponential diffusion analysis in normal prostate and prostate cancer: transition zone and peripheral zone considerations. ISMRM 2015.
118. Ciris PA, Mulkern RV, Balasubramanian M, Damato AL, Seethamraju RT, Fairhurst J, Jolesz FA, **Tempany CM**, Schmidt EJ, Viswanatham AN. Gradient Echo Signal Decays in Gynecological Cancers Require a Gaussian Augmentation of the Mono-Exponential (GAME) Model: Preliminary Evaluation Post External Beam Radiation Therapy at 3T. ISMRM 2015.
119. Ciris PA, Chiou J-YG, Fedorov A, **Tempany CM**, Madore B, Maier SE. Accelerated, Segmented Diffusion-Weighted Imaging in the Prostate achieves High Resolution, Speed and Geometric Fidelity. ISMRM 2015.
120. Ciris PA, Mulkern RV, Balasubramanian M, Seethamraju RT, Fairhurst J, Tokuda J, Scalera J, Penzkofer T, Fennessy FM, Jolesz FA, **Tempany CM**, Schmidt EJ, Tuncali K. Gradient Echo Signal Decays in Healthy and Cancerous Prostate at 3T require a Gaussian Augmentation of the Mono-Exponential (GAME) Model. ISMRM 2015.
121. Wang W, Viswanathan AN, Damato AL, Tse ZTH, Chen Y, Seethamraju RT, **Tempany CM**, Cormack RA, Schmidt EJ. Integration of Active MR Tracking into Adaptive Radiation Therapy Treatment Planning. ISMRM 2015.
122. Lou J, Turk EA, Hahn T, Teulón González M, Gagoski B, Bibbo C, Palanisamy A, **Tempany CM**, Torrado-Carvajal A, Malpica N, Martínez González J, Robinson JN, Hernández-Tamames JA, Adalsteinsson E, Grant PE. Human Placental and fetal response to maternal hyperoxygenation in IUGR pregnancy as measured by BOLD MRI. ISMRM 2015.
123. Glazer DI, Velez E, Sainani NI, Sadow CA, Tuncali K, Vangel M, **Tempany CM**, Dunne RM. Inter-Reader Agreement of PI-RADS Version 2 using an In-Bore MRI Guided Biopsy as the Reference Standard, SCBT-MR 2015.
124. Hassanzadeh E, Velez E, Fennessy FM, Dunne RM, Harisinghani M, **Tempany CM**, Glazer DI. Interactive Experience with Prostate Imaging and Reporting and Data System Version 2. RSNA 2015.
125. Li M, Narayan V, Barile MF, Gill RR, Bueno R, **Tempany-Afdhal, CM**, Jagadeesan, J. Computer-aided Diagnosis of Ground Glass Opacity Lung Nodules: Quantitative Analysis of 248 Nodules. RSNA 2015.
126. Velez E, Allard, CB, Tuncali K, Fedorov A, Kibel A, **Tempany-Afdhal, CM**. Pathologic Correlation between Transperineal in-bore 3-Tesla MR Imaging-Guided Prostate Biopsy and Radical Prostatectomy. RSNA 2015.
127. Aksit Ciris P, Chiou JG, Fedorov A, **Tempany-Afdhal CM**, Madore B, Maier SE. Accelerated Segmented Diffusion-Weighted Prostate Imaging for Higher Resolution, Better Geometric Fidelity, and Multi-b Perfusion Quantification. ISMRM 2016.
128. Hassanzadeh E, Olubiyi OI, Fedorov A, Glazer DI, **Tempany CM**, Fennessy FM. Comparison of performance of quantitative ADC versus PI-RADS v2 assessment for differentiating high-grade from low-grade prostate cancer. ISMRM 2016.

129. Tokuda J, Tuncali K, Li G, Patel N, Heffter T, Fischer GS, Iordachita I, Burdette EC, Hata N, **Tempany CM**. In-Bore MRI-Guided Transperineal Prostate Biopsy using 4-DOF Needle-Guide Manipulator. ISMRM 2016.
130. Tokuda J, Tuncali K, Kok L, Levesque VM, Seethamraju RT, **Tempany CM**, Schmidt EJ. Preliminary evaluation of R2*-based temperature mapping for predicting the kill zone in MRI-guided renal cryoablation. ISMRM 2016.
131. Luo J, Turk EA, Bibbo C, Gagoski B, Vangel M, **Tempany-Afdhal CM**, Malpica N, Palanisamy A, Adalsteinsson E, Robinson JN, Grant PE. BOLD MRI of human placenta and fetuses under maternal hyperoxygenation in growth restricted twin pregnancies. ISMRM 2016.
132. Schmidt EJ, Kacher DF, Harris MB, Lee TC, Seethamraju R, **Tempany CM**, Zampini J. MRI-monitored Anterior Cervical Discectomy and Fusion (ACDF) surgery: Observation of intra-procedural nerve decompression during surgery. ISMRM 2017.
133. Taghipour M, Hassanzadeh E, Alessandrino F, Harisinghani M, **Tempany CMC**, Fennessy FM. Investigating the role of DCE-MRI, over T2 and DWI, in accurate PIRADS-v2 assessments of clinically significant peripheral zone prostate lesions, as defined at radical prostatectomy. ISMRM 2017.
134. Tokuda J, Tuncali K, Seethamraju R, **Tempany CM**, Schmidt EJ. Monitoring Cryoablation using Short Inversion Recovery Ultrashort Echo Time (STIR-UTE) MRI. ISMRM 2017.
135. Ziaei A, Alessandrino F, Vangel M, Kapur T, **Tempany CM**, Fennessy FM Evaluating the Role of PIRADS V2 and TRUSgBX for Improving Detection of Clinically Significant Prostate Cancer at Radical Prostatectomy. ISMRM 2018.
136. Peled S, Schwier M, Vangel M, **Tempany C**, Kikinis R, Fedorov A, Fennessy F. In Search of Repeatable and Useful Prostate DCE-MRI. ISMRM 2018.
137. Schwier M, van Griethuysen J, Vangel MG, Pieper S, Peled S, **Tempany CM**, Aerts H, Kikinis R, Fennessy FM, Fedorov A. Repeatability of Selected Multiparametric Prostate MRI Radiomics. ISMRM 2018.
138. Lo W-C, Jiang Y, Kayat-Bittencourt L, Tokuda J, Seethamraju R, **Tempany CM**, Panda A, Wright K, Griswold M, Seiberlich N, Gulani V. Multi-center repeatability and reproducibility of MR fingerprinting. ISMRM 2018.
139. Fennessy F, Fedorov A, Vangel M, Mulkern R, Lis R, Tretiakova M, **Tempany CM**, Taplan ME. Multiparametric MRI as a biomarker of response to neoadjuvant second-generation hormone therapy for localized prostate cancer- a pilot study. ISMRM 2018.
140. King M, Nguyen P, Boldbaatar N, Yang D, Cormack R, Beard C, Hurwitz M, Warren Suh W, **Tempany CM**, D'Amico A, Orio P. PSA Velocity before Biochemical Failure is Associated with Distant Metastasis after Partial Prostate Treatment with Brachytherapy. ASTRO 2018.
141. Sedghi A, Hamidi S, Mehrtash A, Ziegler E, **Tempany C**, Pieper S, Kapur T, Mousavi P. Tesseract-Medical Imaging: Open-Source Browser-based Platform for Artificial Intelligence Deployment in Medical Imaging. SPIE 2019.
142. Sedghi A, Luo, J, Mehrtash A, Pieper S, **Tempany C**, Kapur T, Mousavi P, Wells WW III. Semi-Supervised Image Registration using Deep Learning. SPIE 2019.

Education Material/Scientific Exhibits

1. **Tempany CM**, Keeling NPW. Review of our ERCP experiences. Presented at the Annual Meeting of the Federated Hospitals, Dublin 1984.
2. Olson M, Posniak H, **Tempany CM**, Dudiak C, Gomes G. MR imaging of the female pelvis. RSNA 1990; ARRS 1991.
3. Imanishi Y, Hou V, Chako AC, Zerhouni EA, **Tempany CM**. Evaluation of the pancreas by MR imaging. European Congress of Radiology 1991.
4. Saeki M, Pitt HA, **Tempany CM**. MRI of hilar cholangiocarcinoma. IHBPA & RSNA 1992.
5. **Tempany CM**, Bastier E, Corless C, Silverman SG, Loughlin KR. MR imaging of biopsy proven prostate cancer. New England AUA 1994.
6. Pomeroy OH, Mok P, Lester S, Adams DA, **Tempany CM**, Jolesz FA. Gadolinium enhanced MRI of core biopsy proven fibroadenomas: histological correlation. AUR 1995.
7. Mok PL, Pomeroy OH, **Tempany CM**, Adams DA, Frenna T. MR imaging of breast specimens. AUR 1995.
8. Pomeroy OH, **Tempany CM**, Hiramatsu H, Frenna TH, Koichi O, Jolesz FA. High resolution MRI of breast fibroadenomas using T₂-weighted fat sat. ARRS 1995.
9. Hutcheson J, **Tempany CM**, Sica GT, Loughlin K. MRI in evaluation of penile cancer. NE-AUA 1995.
10. Tello R, Jacobson F, **Tempany CM**, Knapman M, Jakab M, Kikinis R, Rizzo R. Rapid cardiovascular MRI. ARRS 1996.
11. McAnearney S, Fedorov A, Joldes G, Hata N, **Tempany CM**, Miller K, Wittek A. The Effects of Young's Modulus on Predicting Prostate Deformation for MRI-guided Interventions. Int Conf Med Image Comput Assist Interv. 2010 Sep; 13(W5); Workshop on Computational Biomechanics for Medicine.
12. Kapur T, **Tempany CM**, Jolesz FA. The 3rd Image Guided Therapy Workshop; 3:1-87. Mar 8-9, 2010. Arlington, VA.
13. Kapur T, **Tempany CM**, Jolesz FA. The 4th Image Guided Therapy Workshop; 4:1-121. Oct 12-13, 2011. Arlington, VA.
14. Kapur T, **Tempany CM**, Jolesz FA. The 5th Image Guided Therapy Workshop; 5:1-70. Sep 22-23, 2012. Boston, MA.
15. Kapur T, **Tempany CM**, Jolesz FA. The 6th Image Guided Therapy Workshop; 6:1-87. Mar 21-23, 2013. Crystal City, VA.
16. Kapur T, **Tempany CM**, Jolesz FA. The 7th Image Guided Therapy Workshop; 7:1-60. Sep 18, 2014. Boston, MA.
17. Behringer PA, Herz C, Penzkofer T, Tuncali K, **Tempany CM**, Fedorov A. Open-source Platform for Prostate Motion Tracking during in-bore Targeted MRI-guided Biopsy. Int Conf Med Image Comput Assist Interv. 2015 Oct; 18(W5). Workshop on Clinical Image-based Procedures: Translational Research in Medical Imaging.

18. Kapur T, **Tempany CM**. *The 8th Image Guided Therapy Workshop*; 8:1-68. Mar 15-16, 2016. Bethesda, MD.
19. Kapur T, **Tempany CM**. *The 9th Image Guided Therapy Workshop*; 9:1-55. Mar 14-15, 2017. Bethesda, MD.
20. Kapur T, **Tempany CM**. *The 10th Image Guided Therapy Workshop*; Oct 7, 2018. Boston, MA.