

BIOGRAPHICAL SKETCH

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NAME Daniel, Bruce L.	POSITION TITLE Associate Professor of Radiology		
eRA COMMONS USER NAME DANIEL.BRUCE			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Williams College, Williamstown, MA	B.A.	1985	Physics
Harvard Medical School, Boston, MA	M.D.	1990	Medicine

A. Positions and Honors.**Positions and Employment**

1990-1991 Intern, Internal Medicine, Mount Sinai Medical Center, New York, NY.
 1991-1994 Resident, Department of Radiology, University of Michigan Hospitals, Ann Arbor, MI.
 1994-1995 Chief Resident, Department of Radiology, University of Michigan Hospitals, Ann Arbor
 1995-1997 National Cancer Institute Body Imaging Fellowship, Department of Radiology, Stanford University, Stanford, CA.
 1997- Assistant Professor of Radiology, Stanford University, Stanford, CA

Honors and Awards

1985 Highest Honors in Physics, Magna Cum Laude, Phi Beta Kappa,
 1985 Sigma Xi, Howard Stabler Prize for honors thesis in Physics.
 1988-1989 Student research grant from Harvard Medical School for 1 year project studying effects of schistosomiasis on human growth and development.
 1994 Outstanding scientific paper by a house officer, of Michigan Medical Center Department of Radiology
 1995 Outstanding scientific paper by a house officer, University of Michigan Medical Center Department of Radiology
 1995 Recipient of National Cancer Institute Cancer Imaging Training Grant Fellowship at Stanford University Department of Radiology
 1996 Cum Laude Award for an outstanding Scientific Paper on Cross Sectional Imaging, SCBT/MR
 1998 Gary Becker Award for Outstanding Interventional Radiology Paper
 2000 Moncada Award for an Outstanding Scientific Paper on Cross Sectional Imaging, Society of Computed Body Tomography and Magnetic Resonance
 2002 Elected Fellow, Society of Computed Body Tomography and Magnetic Resonance.
 2002 Winner of best paper award (North America), ESUR-SUR combined scientific sessions: MRI-Guided in vivo Evaluation of High-power Catheter-based Ultrasonic Applicators Designed for Prostate Tissue Ablation, Genoa, Italy, June 14-20, 2002 [Contributing Author]

B. Selected peer-reviewed publications (Selected from 76 total; listed in chronological order).

1. **Daniel BL**, Jeffrey SS, Birdwell RL, Ikeda DM, Sawyer-Glover AM, Herfkens RJ. Three-dimensional shaded surface rendering of MR images of the breast: techniques, applications, and impact on surgical management of breast disease. *RadioGraphics* 1998; 18: 483-496.
2. **Daniel BL**, Birdwell RL, Ikeda DM, Jeffrey SS, Black JW, Block WF, Sawyer-Glover AM, Glover GH, Herfkens RJ. Breast lesion localization: a freehand, interactive MR imaging-guided technique. *Radiology* 1998; 207:455-463.

3. **Daniel BL**, Yen YF, Glover GH, Ikeda DM, Birdwell RL, Sawyer-Glover AM, Black JW, Plevritis SK, Jeffrey SS, Herfkens RJ. Breast disease: dynamic spiral MR imaging. *Radiology* 1998;209:499-509.
4. **Daniel BL**. Images in medicine. Mammographically occult breast cancer. *N Engl J Med* 1999; 340:358.
5. Leong CS, **Daniel BL**, Herfkens RJ, Birdwell RL, Jeffrey SS, Ikeda DM, Sawyer-Glover AM, Glover GH. Characterization of breast lesion morphology with delayed 3DSSMT: an adjunct to dynamic breast MRI. *J Magn Reson Imaging* 2000;11:87-96.
6. Yen YF, Han K, **Daniel BL**, Heiss S, Birdwell RL, Herfkens RJ, Sawyer-Glover AM, Glover GH. Dynamic Breast MRI with Spiral Trajectories: 3D versus 2D. *J Magn Reson Imaging* 11:351-9, 2000.
7. Agoston AT, **Daniel BL**, Herfkens RJ, Ikeda DM, Birdwell RL, Heiss SG, Sawyer-Glover AM. Intensity-modulated parametric mapping for simultaneous display of rapid dynamic and high-spatial-resolution breast MR imaging data. *RadioGraphics* 2001; 21:217-226
8. Qayyum A, Birdwell RL, **Daniel BL**, Nowels KW, Jeffrey SS, Agoston T, Herfkens RJ. MR imaging features of infiltrating lobular carcinoma of the breast: histopathologic correlation. *AJR Am J Roentgenol.* 2002 May;178(5):1227-32.
9. **Daniel BL**, Birdwell RL, Butts K, Nowels KW, Ikeda DM, Heiss SG, Cooper CR, Jeffrey SS, Dirbas FM, Herfkens RJ. Freehand iMRI-guided large gauge core needle biopsy: a new, minimally invasive technique for diagnosis of enhancing breast lesions. *J Magn Reson Imaging.* 2001 Jun;13(6):896-902.
10. Lian J, Hunjan S, Dumoulin C, Levin J, Watkins R, Rohling K, Giaquinto R, Kim D, Lo A, Spielman D, **Daniel B**, Xing L. Integrating deformable MRI/MRSI and CT image registration into the prostate IMRT treatment planning. *Int J Radiat Oncol Biol Phys.* 2003 Oct 1;57(2 Suppl):S207.
11. **Daniel BL**, Gardner RW, Birdwell RL, Nowels KW, Johnson D. Magnetic Resonance Imaging of Intraductal Papilloma of the Breast. *Magn Reson Imaging.* 2003 Oct;21(8):887-92
12. Hartman A, **Daniel B**, Kurian AW. Breast MRI screening and ductal lavage in women at high genetic risk for breast cancer. *Cancer.* 2004 Feb 1;100(3):479-89.
13. Offodile RS, **Daniel BL**, Jeffrey SS, Wapnir I, Dirbas FM, Ikeda DM. Magnetic Resonance Imaging of suspicious breast masses seen on one mammographic view. *Breast J.* 2004 Sep-Oct;10(5):416-22.
14. **Daniel BL**, Freeman LJ, Pyzoha JM, McCoy TD, Birdwell RL, Bouley DM, Movius B, Hibner JA. An MRI-compatible semi-automated vacuum assisted breast biopsy system. In press *JMRI*.
15. Langer A, Horst K, Ikeda DM, **Daniel BL**, Nowels KW, Dirbas FM. Pathologic correlates of false positive MRI findings: which lesions warrant biopsy? In Press, *Am J Surg*.
16. Kurian AW, Hartman AR, Mills MA, Ford JM, **Daniel BL**, Plevritis SK. Opinions of women with high inherited breast cancer risk about prophylactic mastectomy: an initial evaluation from a screening trial including magnetic resonance imaging and ductal lavage. In press, *Health Expectations*.
17. Lian J, Xing L, Hunjan S, Dumoulin C, Levin J, Lo A, Watkins R, Rohling K, Giaquinto R, Kim D, Spielman D, **Daniel B**. Mapping of the prostate in endorectal coil-based MRI/MRSI and CT: a deformable registration and validation study. *Med Phys.* 2004;31:3087-94.
18. Lilienstein J, **Daniel BL**, Ikeda DM. In vivo sonography through an Open MRI breast coil to correlate Ultrasound and MRI finding. *AJR Am J Roentgenol.* 2005 Mar;184:S49-52.
19. Mariano MN, van den Bosch MA, **Daniel BL**, Nowels KW, Birdwell RL, Fong KJ, Desmond PS, Plevritis S, Stables LA, Zakhour M, Herfkens RJ, Ikeda DM. Contrast-enhanced MRI of ductal carcinoma in situ: characteristics of a new intensity-modulated parametric mapping technique correlated with histopathologic findings. *J Magn Reson Imaging.* 2005 Oct;22(4):520-6.
20. Rakow-Penner R, **Daniel B**, Yu H, Sawyer-Glover A, Glover GH. Relaxation times of breast tissue at 1.5T and 3T measured using IDEAL. *J Magn Reson Imaging.* 2006 Jan;23(1):87-91.
21. van den Bosch MA, **Daniel BL**, Pal S, Nowels KW, Birdwell RL, Jeffrey SS, Ikeda DM. MRI-guided needle localization of suspicious breast lesions: results of a freehand technique. *Eur Radiol.* 2006 May 9
22. Plevritis SK, Kurian AW, Sigal BM, **Daniel BL**, Ikeda DM, Stockdale FE, Garber AM. Cost-effectiveness of screening BRCA1/2 mutation carriers with breast magnetic resonance imaging. *JAMA.* 2006 May 24;295(20):2374-84.
23. Espinosa LA, **Daniel BL**, Jeffrey SS, Nowels KW, Ikeda DM. MRI features of mucosa-associated lymphoid tissue lymphoma in the breast. *AJR Am J Roentgenol.* 2005 Jul;185(1):199-202.
24. Espinosa LA, **Daniel BL**, Vidarsson L, Zakhour M, Ikeda DM, Herfkens RJ. The lactating breast: contrast-enhanced MR imaging of normal tissue and cancer. *Radiology.* 2005 Nov;237(2):429-36.

C. Research Support.**Ongoing Research Support**

RO1 CA82904 Plevritis (PI) 7/1/04 – 6/30/08

NIH/NCI

Cost effectiveness Analysis of Breast Cancer Screening

The purpose of this grant is to evaluate various methods for screening women at risk of breast cancer, using disease process modeling.

Role: Co-Investigator

RO1 CA111981 Sommer (PI) 1/13/05 - 12/31/07

NIH/NCI

Precise MRI-Directed Sonic Ablation of Prostate Cancer

The purpose of this grant is to develop and validate methods for trans-urethral and trans-perineal high-intensity ultrasound ablation of the prostate, using MRI thermal monitoring.

Role: Investigator

RO1 CA092061 Daniel (PI) 5/1/03 – 3/31/07

NIH/NCI

Techniques for MRI-Guided Cryosurgery of Prostate Cancer

The purpose of this grant is to develop techniques for MRI guidance and temperature mapping during prostate cancer cryosurgery.

Role: Principal Investigator

RO1 CA77677 Butts (PI) 9/30/03 – 8/31/07

NIH/NCI

iMRI Methods for Cancer Diagnosis and Treatment

The purpose of this grant is to develop new techniques for MRI monitoring and guidance of thermal ablation.

Role: Co-Investigator

Completed Research

DAMD17-03-1-0023 Xing (PI) 5/1/03 – 4/30/06

Department of Defense Prostate Cancer Research Program

Intensity Modulated Radiation Therapy for Prostate Cancer Guided by High Field MR Spectroscopic Imaging

To demonstrate the technical feasibility and advantage of using MR spectroscopic imaging to guide intensity modulated radiation treatment of prostate cancer.

Role: Co-Investigator

RO1 EB00198 Fahrig (PI) 09/30/02 – 08/31/05

NIH

Hybrid X-Ray/MR Systems for Image-Guided Procedures

The purpose of this grant is to develop and evaluate methods for combined X-Ray and MRI imaging during interventional procedures.

Role: Co-Investigator

Sponsored Research Ford, Plevritis (PIs) 07/01/02 – 06/30/05

V Foundation

Determinants of Genomic Instability in Women with BRCA1 Mutations Undergoing Comprehensive Breast Cancer Screening

To analyze tissue biopsies and cells obtained from women with known BRCA1 mutations through MRI directed biopsy or ductal lavage for genetic alterations in BRCA1 and p53, and gene expression patterns of BRCA1 regulated nucleotide excision DNA repair genes.

Role: Co-Investigator

R33 CA88205 Sommer (PI) 06/01/01 – 05/31/05
NIH

Precise MRI-directed Sonic Ablation of Prostate Cancer

The primary goal is to develop transurethral and interstitial applicators suitable for human prostate tissue ablation, and MR techniques for prostatic thermal mapping and the imaging of prostate tissue necrosis. A competing renewal for funding to continue through 6/30/07 was submitted.

Role: Co-Investigator

RG-01-0110 Scott (PI) 9/1/01 - 8/31/04

The Whitaker Foundation

A Prepolarized MRI Impedance Contrast Scanner for Improved RF Ablation of Breast Cancer

The purpose of this grant is to develop and evaluate methods for mapping tissue conductivity during MRI-guided radiofrequency ablation of breast cancer.

Role: Co-Investigator

R21 CA79773-01 Daniel (PI) 4/28/99-12/31/04

NIH/NCI

MR-Guided Radiofrequency Ablation of Breast Cancer.

The purpose of the grant was to develop methods for MRI monitoring of MRI-guided Radiofrequency thermal ablation in breast cancer.

Role: Principal Investigator