

# Stanford

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## Bruce Daniel

Professor of Radiology (Body Imaging) and, by courtesy, of Bioengineering

### CLINICAL OFFICES

- **Stanford Diagnostic Radiology**

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Stanford, CA 94305

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Jocelyn Steffen - Administrative Assistant

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### Bio

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### CLINICAL FOCUS

- Diagnostic Radiology
- Radiology

### ACADEMIC APPOINTMENTS

- Professor, Radiology
- Professor (By courtesy), Bioengineering
- Member, Bio-X
- Member, Stanford Cancer Institute

### ADMINISTRATIVE APPOINTMENTS

- Gastrointestinal Oncology Tumor Board, Stanford, (1997- present)
- Genito-Urinary Tumor Board, Stanford, (2010- present)
- Breast Cancer Disease Management Group Member, Stanford Cancer Center, (2007- present)
- Chief, Breast MRI Service, Stanford, (2006- present)

### HONORS AND AWARDS

- Lauterber Award in MR, Society of Computed Body Tomography and Magnetic Resonance (2008)
- Second Place Poster Awarded [Contributing Author], 5th Interventional MRI Symposium (2004)
- Winner, Young Investigator Award competition, Association for Advancement of Medical Instrumentation (AAMI) (2004)
- Elected Fellow, Society of Computed Body Tomography and Magnetic Resonance (2002)
- Winner of best paper award (North America) [Contributing Author], ESUR-SUR (2002)
- Cum Laude Award [Advisor to award recipient, Rebecca Fahrig, Ph.D.], SCBT/MR (2001)
- Finalist, Young Investigator Competition [Advisor to first author Janaka Wansapura, Ph.D.], Association for Advancement of Medical Instrumentation (AAMI) (2001)

- Fellowship Research Trainee Prize [Advisor to award recipient, Rebecca Fahrig, Ph.D.], RSNA 2000 Physics Subcommittee (2000)
- Moncada Award for an Outstanding Scientific Paper on Cross Sectional Imaging, Society of Computed Body Tomography and Magnetic Resonance (2000)
- Picker/AUR Faculty Development Program Recipient, - (1999)
- Gary Becker Award for Outstanding Interventional Radiology Paper, - (1998)
- Cum Laude Award for an Outstanding Scientific Paper on Cross Sectional Imaging, Society of Computed Body Tomography and Magnetic Resonance (1996)
- Recipient of National Cancer Institute Cancer Imaging Training Grant Fellowship, Stanford University Department of Radiology (1995-97)
- Outstanding Scientific Paper by a House Officer, University of Michigan Medical Center Department of Radiology (1995)
- Outstanding Scientific Paper by a House Officer, University of Michigan Medical Center Department of Radiology (1994)
- Highest Honors in Physics, Williams College (1985)
- Howard Stabler prize for honors thesis in Physics, Williams College (1985)
- Magna Cum Laude, Williams College (1985)
- Sigma Xi, Williams College (1985)
- Phi Beta Kappa, Williams College (1984)

## PROFESSIONAL EDUCATION

- Fellowship: Stanford University Radiology Fellowships (1997) CA
- Residency: University of Michigan Radiology Residency (1995) MI
- Board Certification: Diagnostic Radiology, American Board of Radiology (1995)
- Internship: Mount Sinai Medical Center (1991) NY
- Medical Education: Harvard Medical School (1990) MA
- BA, Williams College (1985)
- MD, Harvard Medical School , Medicine (1990)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

1. MRI of Breast Cancer, particularly new techniques. Currently being explored are techniques including ultra high spatial resolution MRI and contrast-agent-free detection of breast tumors.
2. MRI-guided interventions, especially MRI-compatible remote manipulation and haptics
3. Medical Mixed Reality. Currently being explored are methods of fusing patients and their images to potentially improve breast conserving surgery, and other conditions.

### CLINICAL TRIALS

- Magnetic Resonance Imaging of Breast Cancer, Recruiting
- Accelerated Partial Breast Irradiation Following Lumpectomy for Breast Cancer, Not Recruiting
- High Resolution 3D Diffusion-weighted Breast MRI, Not Recruiting
- Phase 2 Anastrozole and Vandetanib (ZD6474) in Neoadjuvant Treatment of Postmenopausal Hormone Receptor-Positive Breast Cancer, Not Recruiting

## Teaching

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### COURSES

#### 2018-19

- Clinical Needs and Technology: BIOE 301B (Win)
- Mixed-Reality in Medicine: RAD 206 (Aut)

#### 2017-18

- Clinical Needs and Technology: BIOE 301B (Win)

#### 2015-16

- Clinical Needs and Technology: BIOE 301B (Win)

### STANFORD ADVISEES

#### Doctoral Dissertation Advisor (AC)

Steffi Perkins

## Publications

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### PUBLICATIONS

- **Location constrained approximate message passing for compressed sensing MRI** *MAGNETIC RESONANCE IN MEDICINE*  
Sung, K., Daniel, B. L., Hargreaves, B. A.  
2013; 70 (2): 370-381
- **Subject-specific models of susceptibility-induced B0 field variations in breast MRI** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Jordan, C. D., Daniel, B. L., Koch, K. M., Yu, H., Conolly, S., Hargreaves, B. A.  
2013; 37 (1): 227-232
- **The California Breast Density Information Group: A Collaborative Response to the Issues of Breast Density, Breast Cancer Risk, and Breast Density Notification Legislation** *RADIOLOGY*  
Price, E. R., Hargreaves, J., Lipson, J. A., Sickles, E. A., Brenner, R. J., Lindfors, K. K., Joe, B. N., Leung, J. W., Feig, S. A., Bassett, L. W., Daniel, B. L., Kurian, A. W., Love, et al  
2013: 887-92
- **MRI Enhancement Correlates With High Grade Desmoid Tumor of Breast** *BREAST JOURNAL*  
Kim, M. J., Wapnir, I. L., Ikeda, D. M., Chisholm, K. M., Do, Y., Daniel, B. L.  
2012; 18 (4): 374-376
- **Toward MR-guided high intensity focused ultrasound for presurgical localization: Focused ultrasound lesions in cadaveric breast tissue** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Bitton, R. R., Kaye, E., Dirbas, F. M., Daniel, B. L., Pauly, K. B.  
2012; 35 (5): 1089-1097
- **Intravaginal Gel for Staging of Female Pelvic Cancers-Preliminary Report of Safety, Distention, and Gel-Mucosal Contrast During Magnetic Resonance Examination** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*  
Young, P., Daniel, B., Sommer, G., Kim, B., Herfkens, R.  
2012; 36 (2): 253-256
- **MR Imaging-guided Cryoablation for the Treatment of Benign Prostatic Hyperplasia** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Ghanouni, P., Gill, H., Kaye, E., Pauly, K. B., Daniel, B.  
2011; 22 (10): 1427-1430
- **Custom-Fitted 16-Channel Bilateral Breast Coil for Bidirectional Parallel Imaging** *MAGNETIC RESONANCE IN MEDICINE*  
Nnewiwe, A. N., Grafendorfer, T., Daniel, B. L., Calderon, P., Alley, M. T., Robb, F., Hargreaves, B. A.

2011; 66 (1): 281-289

- **MR Water Quantitative Priors Improves the Accuracy of Optical Breast Imaging** *IEEE TRANSACTIONS ON MEDICAL IMAGING*  
Carpenter, C. M., Pogue, B. W., Jiang, S., Wang, J., Hargreaves, B. A., Rakow-Penner, R., Daniel, B. L., Paulsen, K. D.  
2011; 30 (1): 159-168
- **Detecting Blood Oxygen Level-Dependent (BOLD) Contrast in the Breast** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Rakow-Penner, R., Daniel, B., Glover, G. H.  
2010; 32 (1): 120-129
- **Freehand MRI-Guided Preoperative Needle Localization of Breast Lesions After MRI-Guided Vacuum-Assisted Core Needle Biopsy Without Marker Placement** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
van de Ven, S. M., Lin, M. C., Daniel, B. L., Sareen, P., Lipson, J. A., Pal, S., Dirbas, F. M., Ikeda, D. M.  
2010; 32 (1): 101-109
- **Inspired gas-induced vascular change in tumors with magnetic-resonance-guided near-infrared imaging: human breast pilot study** *JOURNAL OF BIOMEDICAL OPTICS*  
Carpenter, C. M., Rakow-Penner, R., Jiang, S., Daniel, B. L., Pogue, B. W., Glover, G. H., Paulsen, K. D.  
2010; 15 (3)
- **Consistency of Signal Intensity and T2\*in Frozen Ex Vivo Heart Muscle, Kidney, and Liver Tissue** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Kaye, E. A., Josan, S., Lu, A., Rosenberg, J., Daniel, B. L., Pauly, K. B.  
2010; 31 (3): 719-724
- **Independent Slab-Phase Modulation Combined With Parallel Imaging in Bilateral Breast MRI** *MAGNETIC RESONANCE IN MEDICINE*  
Han, M., Beatty, P. J., Daniel, B. L., Hargreaves, B. A.  
2009; 62 (5): 1221-1231
- **3.0-T MR-Guided Focused Ultrasound for Preoperative Localization of Nonpalpable Breast Lesions: An Initial Experimental Ex Vivo Study** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Schmitz, A. C., Van den Bosch, M. A., Rieke, V., Dirbas, F. M., Pauly, K. B., Mali, W. P., Daniel, B. L.  
2009; 30 (4): 884-889
- **MRI GUIDANCE FOR ACCELERATED PARTIAL BREAST IRRADIATION IN PRONE POSITION: IMAGING PROTOCOL DESIGN AND EVALUATION** *50th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology (ASTRO)*  
Ahn, K., Hargreaves, B. A., Alley, M. T., Horst, K. C., Luxton, G., Daniel, B. L., Hristov, D.  
ELSEVIER SCIENCE INC.2009: 285-93
- **MRI-Guided Cryoablation: In Vivo Assessment of Focal Canine Prostate Cryolesions** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Josan, S., Bouley, D. M., van den Bosch, M., Daniel, B. L., Pauly, K. B.  
2009; 30 (1): 169-176
- **MR Voiding Cystography for Evaluation of Vesicoureteral Reflux** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Vasanawala, S. S., Kennedy, W. A., Ganguly, A., Fahrig, R., Rieke, V., Daniel, B., Barth, R. A.  
2009; 192 (5): W206-W211
- **Improved Half RF Slice Selectivity in the Presence of Eddy Currents with Out-of-Slice Saturation** *MAGNETIC RESONANCE IN MEDICINE*  
Josan, S., Kaye, E., Pauly, J. M., Daniel, B. L., Pauly, K. B.  
2009; 61 (5): 1090-1095
- **Double Half RF Pulses for Reduced Sensitivity to Eddy Currents in UTE Imaging** *MAGNETIC RESONANCE IN MEDICINE*  
Josan, S., Pauly, J. M., Daniel, B. L., Pauly, K. B.  
2009; 61 (5): 1083-1089
- **MR Imaging-guided Percutaneous Cryoablation of the Prostate in an Animal Model: In Vivo Imaging of Cryoablation-induced Tissue Necrosis with Immediate Histopathologic Correlation** *32nd Annual Meeting of the Society-of-Interventional-Radiology (SIR)*  
van den Bosch, M. A., Josan, S., Bouley, D. M., Chen, J., Gill, H., Rieke, V., Butts-Pauly, K., Daniel, B. L.  
ELSEVIER SCIENCE INC.2009: 252-58
- **Accelerated Bilateral Dynamic Contrast-Enhanced 3D Spiral Breast MRI Using TSENSE** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Han, M., Daniel, B. L., Hargreaves, B. A.

2008; 28 (6): 1425-1434

- **Improved slice selection for R2\* mapping during cryoablation with eddy current compensation** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Lu, A., Daniel, B. L., Pauly, J. M., Pauly, K. B.  
2008; 28 (1): 190-198
- **Monitoring prostate thermal therapy with diffusion-weighted MRI** *MAGNETIC RESONANCE IN MEDICINE*  
Chen, J., Daniel, B. L., Diederich, C. J., Bouley, D. M., Van den Bosch, M. A., Kinsey, A. M., Sommer, G., Pauly, K. B.  
2008; 59 (6): 1365-1372
- **Reduction of truncation artifacts in rapid 3D articular cartilage imaging** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Rakow-Penner, R., Gold, G., Daniel, B., Stevens, K., Rosenberg, J., Mazin, S.  
2008; 27 (4): 860-865
- **Magnetic resonance galactography: A feasibility study in women with prior atypical breast duct cytology** *BREAST JOURNAL*  
Kurian, A. W., Hartman, A., Mills, M. A., Logan, L. J., Sawyer, A. M., Ford, J. M., Daniel, B. L.  
2008; 14 (2): 211-214
- **A hybrid radiography/MRI system for combining hysterosalpingography and MRI in infertility patients: Initial experience** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Freeman-Walsh, C. B., Fahrig, R., Ganguly, A., Rieke, V., Daniel, B. L.  
2008; 190 (2): W157-W160
- **MRI-guided radiofrequency ablation of breast cancer: Preliminary clinical experience** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
van den Bosch, M., Daniel, B., Rieke, V., Butts-Pauly, K., Kermit, E., Jeffrey, S.  
2008; 27 (1): 204-208
- **Ductal pattern enhancement on magnetic resonance imaging of the breast due to ductal lavage** *BREAST JOURNAL*  
Ghanouni, P., Kurian, A. W., Margolis, D., Hartman, A., Mills, M. A., Plevritis, S. K., Ford, J. M., Daniel, B. L.  
2007; 13 (3): 281-286
- **Independent phase modulation for efficient dual-band 3D imaging** *MAGNETIC RESONANCE IN MEDICINE*  
Hargreaves, B. A., Cunningham, C. H., Pauly, J. M., Daniel, B. L.  
2007; 57 (4): 798-802
- **Resolution of hypoalbuminemia after excision of malignant phyllodes tumor** *CLINICAL BREAST CANCER*  
Samiian, L., Daniel, B., Wapnir, I.  
2006; 7 (5): 411-412
- **MRI-guided needle localization of suspicious breast lesions: results of a freehand technique** *EUROPEAN RADIOLOGY*  
van den Bosch, M. A., Daniel, B. L., Pal, S., Nowels, K. W., Birdwell, R. L., Jeffrey, S. S., Ikeda, D. M.  
2006; 16 (8): 1811-1817
- **Cost-effectiveness of screening BRCA1/2 mutation carriers with breast magnetic resonance imaging** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*  
Plevritis, S. K., Kurian, A. W., Sigal, B. M., Daniel, B. L., Ikeda, D. M., Stockdale, F. E., Garber, A. M.  
2006; 295 (20): 2374-2384
- **In vivo porcine liver radiofrequency ablation with simultaneous MR temperature imaging** *11th Annual Meeting of the International-Society-for-Magnetic-Resonance-in-Medicine*  
Vigen, K. K., Jarrard, J., Rieke, V., Frisoli, J., Daniel, B. L., Pauly, K. B.  
JOHN WILEY & SONS INC.2006: 578-84
- **Investigation of proton density for measuring tissue temperature** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Chen, J., Daniel, B. L., Pauly, K. B.  
2006; 23 (3): 430-437
- **New Aspects on Pulse Sequence Design for Breast MRI.** *Eur Radiol*  
Hargreaves BA, Cunningham CH, Han M, Pauly JM, Lee JH, Daniel BL  
2006; 16 (Suppl 5): E35-E37

- **Relaxation times of breast tissue at 1.5T and 3T measured using IDEAL** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Rakow-Penner, R., Daniel, B., Yu, H. Z., Sawyer-Glover, A., Glover, G. H.  
2006; 23 (1): 87-91
- **Water-selective spectral-spatial contrast-enhanced breast MRI for cancer detection in patients with extracapsular and injected free silicone.** *Magn Reson Imaging*  
Po J, Margolis DJA, Cunningham CH, Herfkens RJ, Ikeda DM, Daniel BL  
2006; 24 (10): 1363-7
- **The lactating breast: Contrast-enhanced MR Imaging of normal tissue and cancer** *RADIOLOGY*  
Espinosa, L. A., Daniel, B. L., Vidarsson, L., Zakhour, M., Ikeda, D. M., Herfkens, R. J.  
2005; 237 (2): 429-436
- **Pathologic correlates of false positive breast magnetic resonance imaging findings: which lesions warrant biopsy?** *6th Annual Meeting of the American-Society-of-Breast-Surgeons*  
Langer, S. A., Horst, K. C., Ikeda, D. M., Daniel, B. L., Kong, C. S., Dirbas, F. M.  
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.2005: 633-40
- **Contrast-enhanced MRI of ductal carcinoma in situ: Characteristics of a new intensity-modulated parametric mapping technique correlated with histopathologic findings** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Mariano, M. N., van den Bosch, M. A., Daniel, B. L., Nowels, K. W., Birdwell, R. L., Fong, K. J., Desmond, P. S., Plevritis, S., Stables, L. A., Zakhour, M., Herfkens, R. J., Ikeda, D. M.  
2005; 22 (4): 520-526
- **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** *HEALTH EXPECTATIONS*  
Kurian, A. W., Hartman, A. R., Mills, M. A., Ford, J. M., Daniel, B. L., Plevritis, S. K.  
2005; 8 (3): 221-233
- **Truly hybrid x-ray/MR imaging: Toward a streamlined clinical system** *5th International Interventional MRI Symposium*  
Ganguly, A., Wen, Z. F., Daniel, B. L., Butts, K., Kee, S. T., Rieke, V., Do, H. M., Pelc, N. J., Alley, M. T., Fahrig, R.  
ELSEVIER SCIENCE INC.2005: 1167-77
- **In vivo MR thermometry of frozen tissue using R2\* and signal intensity** *5th International Interventional MRI Symposium*  
Wansapura, J. P., Daniel, B. L., Vigen, K. K., Butts, K.  
ELSEVIER SCIENCE INC.2005: 1080-84
- **Magnetic resonance imaging characteristics of fibrocystic change of the breast** *INVESTIGATIVE RADIOLOGY*  
van den Bosch, M. A., Daniel, B. L., Mariano, M. N., Nowels, K. N., Birdwell, R. L., Fong, K. J., Desmond, P. S., Plevritis, S., Stables, L. A., Zakhour, M., Herfkens, R. J., Ikeda, D. M.  
2005; 40 (7): 436-441
- **X-ray compatible radiofrequency coil for magnetic resonance imaging** *MAGNETIC RESONANCE IN MEDICINE*  
Rieke, V., GANGULY, A., Daniel, B. L., Scott, G., Pauly, J. M., Fahrig, R., Pelc, N. J., Butts, K.  
2005; 53 (6): 1409-1414
- **In vivo prostate magnetic resonance spectroscopic imaging using two-dimensional J-resolved PRESS at 3 T** *MAGNETIC RESONANCE IN MEDICINE*  
Kim, D. H., Margolis, D., Xing, L., Daniel, B., Spielman, D.  
2005; 53 (5): 1177-1182
- **An MRI-compatible semiautomated vacuum assisted breast biopsy system: Initial feasibility study** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Daniel, B. L., Freeman, L. J., Pyzoha, J. M., McCoy, T. D., Birdwell, R. L., Bouley, D. M., Movius, B., Hibner, J. A.  
2005; 21 (5): 637-644
- **Rates of reexcision for breast cancer after magnetic resonance imaging-guided bracket wire localization** *JOURNAL OF THE AMERICAN COLLEGE OF SURGEONS*  
Wallace, A. M., Daniel, B. L., Jeffrey, S. S., Birdwell, R. L., Nowels, K. W., Dirbas, F. M., Schraedley-Desmond, P., Ikeda, D. M.  
2005; 200 (4): 527-537
- **In vivo sonography through an open MRI breast coil to correlate sonographic and MRI findings** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Lilienstein, J., Daniel, B. L., Ikeda, D. M.

2005; 184 (3): S49-S52

- **MR-guided transjugular intrahepatic portosystemic shunt creation with use of a hybrid radiography/MR system** *29th Annual Meeting of the Society-of-Interventional-Radiology (SIR)*  
Kee, S. T., GANGULY, A., Daniel, B. L., Wen, Z. F., Butts, K., Shimikawa, A., Pelc, N. J., Fahrig, R., Dake, M. D.  
ELSEVIER SCIENCE INC.2005: 227-34
- **MR-guided interventions of the breast.** *Magn Reson Imaging Clin N Am*  
van den Bosch MA, Daniel BL  
2005; 13 (3): 505-17
- **MRI features of mucosa-associated lymphoid tissue lymphoma in the breast.** *AJR Am J Roentgenol*  
Espinosa LA, Daniel BL, Jeffrey SS, Nowels KW, Ikeda DM  
2005; 185 (1): 199-202
- **MRI-guided interstitial ultrasound thermal therapy of the prostate: A feasibility study in the canine model.** *Med Phys*  
Nau WH, Diederich CJ, Ross AB, Butts K, Rieke V, Bouley D, Gill H, Daniel B, Sommer G  
2005; 32: 733-43
- **Mapping of the prostate in endorectal coil-based MRI/MRSI and CT: A deformable registration and validation study** *45th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology (ASTRO)*  
Lian, J., Xing, L., Hunjan, S., Dumoulin, C., Levin, J., Lo, A., Watkins, R., Rohling, K., Giaquinto, R., Kim, D., Spielman, D., Daniel, B.  
AMER ASSOC PHYSICISTS MEDICINE AMER INST PHYSICS.2004: 3087-94
- **Magnetic resonance imaging of suspicious breast masses seen on one mammographic view.** *breast journal*  
Offodile, R. S., Daniel, B. L., Jeffrey, S. S., Wapnir, I., Dirbas, F. M., Ikeda, D. M.  
2004; 10 (5): 416-422
- **Referenceless PRF shift thermometry** *MAGNETIC RESONANCE IN MEDICINE*  
Rieke, V., Vigen, K. K., Sommer, G., Daniel, B. L., Pauly, J. M., Butts, K.  
2004; 51 (6): 1223-1231
- **Breast magnetic resonance image screening and ductal lavage in women at high genetic risk for breast carcinoma** *CANCER*  
Hartman, A. R., Daniel, B. L., Kurian, A. W., Mills, M. A., Nowels, K. W., Dirbas, F. M., Kingham, K. E., Chun, N. M., Herfkens, R. J., Ford, J. M., Plevritis, S. K.  
2004; 100 (3): 479-489
- **Highly directional transurethral ultrasound applicators with rotational control for MRI-guided prostatic thermal therapy.** *Phys Med Biol*  
Ross AB, Diederich CJ, Nau WH, Gill H, Bouley DM, Daniel B, Rieke V, Butts RK, Sommer G  
2004; 49 (2): 189-204
- **Triggered, navigated, multi-baseline method for proton resonance frequency temperature mapping with respiratory motion** *MAGNETIC RESONANCE IN MEDICINE*  
Vigen, K. K., Daniel, B. L., Pauly, J. M., Butts, K.  
2003; 50 (5): 1003-1010
- **First use of a truly-hybrid X-ray/MR imaging system for guidance of brain biopsy** *ACTA NEUROCHIRURGICA*  
Fahrig, R., Heit, G., Wen, Z., Daniel, B. L., Butts, K., Pelc, N. J.  
2003; 145 (11): 995-997
- **Magnetic resonance imaging of intraductal papilloma of the breast** *MAGNETIC RESONANCE IMAGING*  
Daniel, B. L., Gardner, R. W., Birdwell, R. L., Nowels, K. W., Johnson, D.  
2003; 21 (8): 887-892
- **Diffusion-weighted MRI after cryosurgery of the canine prostate. Magnetic resonance imaging.** *Journal of magnetic resonance imaging : JMRI*  
Butts, K., Daniel, B. L., Chen, L., Bouley, D. M., Wansapura, J., Maier, S. E., Dumoulin, C., Watkins, R.  
2003; 17 (1): 131-135
- **Utility of 3-tesla MRSI for guiding prostate IMRT.** *Int J Radiat Oncol Biol Phys*  
Hunjan S, Lian J, Dumoulin C, Levin J, Watkins R, Kim D, Adelsteinsson E, Boyer A, Spielman D, Daniel B, Xing L  
2003; 57 (2 Suppl): S400-1

- **MRI imaging features of infiltrating lobular carcinoma of the breast: histopathologic correlation.** *AJR Am J Roentgenol*  
Qayyum A, Birdwell RL, Daniel BL, Nowels KW, Jeffrey SS, Agoston TA, Herfkens RJ  
2002; 178 (5): 1227-32
- **Truly hybrid interventional MR/x-ray system: Investigation of in vivo applications** *ACADEMIC RADIOLOGY*  
Fahrig, R., Butts, K., Wen, Z. F., Saunders, R., Kee, S. T., Sze, D. Y., Daniel, B. L., Laerum, F., Pelc, N. J.  
2001; 8 (12): 1200-1207
- **Temperature mapping of frozen tissue using eddy current compensated half excitation RF pulses** *MAGNETIC RESONANCE IN MEDICINE*  
Wansapura, J. P., Daniel, B. L., Pauly, J., Butts, K.  
2001; 46 (5): 985-992
- **Freehand iMRI-guided large-gauge core needle biopsy: A new minimally invasive technique for diagnosis of enhancing breast lesions** *7th Annual Meeting of the International-Society-for-Magnetic-Resonance-in-Medicine (ISMRM)*  
Daniel, B. L., Birdwell, R. L., Butts, K., Nowels, K. W., Ikeda, D. M., Heiss, S. G., Cooper, C. R., Jeffrey, S. S., Dirbas, F. M., Herfkens, R. J.  
JOHN WILEY & SONS INC.2001: 896-902
- **Potential role of magnetic resonance imaging and other modalities in ductal carcinoma in situ detection.** *Magnetic resonance imaging clinics of North America*  
Ikeda, D. M., Birdwell, R. L., Daniel, B. L.  
2001; 9 (2): 345-?
- **A truly hybrid interventional MR/X-ray system: Feasibility demonstration** *8th Annual Meeting of the ISMRM*  
Fahrig, R., Butts, K., Rowlands, J. A., Saunders, R., Stanton, J., Stevens, G. M., Daniel, B. L., Wen, Z. F., Ergun, D. L., Pelc, N. J.  
JOHN WILEY & SONS INC.2001: 294-300
- **Intensity-modulated parametric mapping for simultaneous display of rapid dynamic and high-spatial-resolution breast MR imaging data** *RADIOGRAPHICS*  
Agoston, A. T., Daniel, B. L., Herfkens, R. J., Ikeda, D. M., Birdwell, R. L., Heiss, S. G., Sawyer-Glover, A. M.  
2001; 21 (1): 217-226
- **Temperature quantitation and mapping of frozen tissue** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Butts, K., Sinclair, J., Daniel, B. L., Wansapura, J., Pauly, J. M.  
2001; 13 (1): 99-104
- **Magnetic resonance imaging of breast cancer: Clinical indications and breast MRI reporting system** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Ikeda, D. M., Baker, D. R., Daniel, B. L.  
2000; 12 (6): 975-983
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