

Publications: Dr. Gary Liney PhD

Books

2005

1. G.P. Liney, 'MRI from A to Z: A Definitive Guide for Medical Professionals', Cambridge University Press, ISBN: 0521606381.

2006

2. G.P. Liney, 'MRI in Clinical Practice', Springer Press, ISBN: 184628161X.

2010

3. G.P. Liney, 'MRI from A to Z' Second edition, Springer Press, *in press*.

Full Papers Published in Peer Reviewed Journals

1996

1. G.P. Liney, A.J. Knowles, D.J. Manton, L.W. Turnbull, S.J. Blackband, A. Horsman. Comparison of Conventional Single Echo and Multi-echo Sequences with Fast Spin Echo Sequences for Quantitative T_2 Mapping: Application to the Prostate, *J. Magn. Reson. Imag.* 1996; 6: 603-607.
2. G.P. Liney, M. Lowry, D.J. Manton, L.W. Turnbull, S.J. Blackband, A. Horsman. Proton MR Images Map the Citrate Concentration in the Prostate, *NMR Biomed.* 1996; 9: 59-64.
3. M. Lowry, G.P. Liney, D.J. Manton, L.W. Turnbull, S.J. Blackband, A. Horsman. Citrate Quantitation in Prostate: Zonal and Age Related Differences, *Magn. Reson. Med.* 1996; 36: 352-358.

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4. G.P. Liney, M. Lowry, L.W. Turnbull, L.S. Turnbull, A.J. Knowles, A. Horsman. In Vivo Quantification of Citrate Concentration and Water T_2 in the Pathologic Prostate Gland Using ^1H MRS and MRI, *Magn. Reson. Imag.* 1997; 15: 1177-1187.

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5. G.P. Liney, L.W. Turnbull, A.J. Knowles. A Simple Method for the Correction of Endorectal Surface Coil Inhomogeneity in Prostate Imaging, *J. Magn. Reson. Imag.* 1998, 8: 994-997.

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6. G.P. Liney, L.W. Turnbull, A.J. Knowles. In Vivo MR Spectroscopy and Dynamic Contrast Enhanced Imaging of the Prostate Gland, *NMR Biomed.* 1999; 12: 39-44.

7. L.W. Turnbull, D.L. Buckley, L.S. Turnbull, G.P. Liney, A.J. Knowles, A. Horsman. Differentiation of Prostatic Carcinoma and Benign Prostatic Hypertrophy: Correlation between Dynamic Gd-DTPA Enhanced MR Imaging and Histopathology, *J. Magn. Reson. Imag.* 1999, 9: 311-316.
8. G.P. Liney, L.W. Turnbull. Assessment of Several Quantitative Measurements of Dynamic Contrast Enhanced MRI in the Differentiation of Primary Breast Lesions, *JDRI* 1999, 2: 81-87.
9. G.P. Liney, P. Gibbs, C. Hayes, M.O. Leach, L.W. Turnbull. Dynamic Contrast Enhanced MRI in the Differentiation of Primary Breast Lesions: The Effect of Region-of-Interest, *J. Magn. Reson. Imag.* 1999, 10: 945-949.
10. G.P. Liney, D.J. Tozer, L.W. Turnbull. A Simple and Realistic Tissue Equivalent Breast Phantom for MRI, *J. Magn. Reson. Imag.* 1999, 10: 968-971.

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11. J. Brown, D. Buckley, A. Coulthard, A.K. Dixon, J.M. Dixon, D.F. Easton, R.A. Eeles, D.G.R. Evans, F.G. Gilbert, M. Graves, C. Hayes, J.P.R. Jenkins, A.P. Jones, S.F. Keevil, M.O. Leach, G.P. Liney, S.M. Moss, A.R. Padhani, G.J.M. Parker, L.J. Pointon, B.A.J. Ponder, T.W. Redpath, J.P. Sloane, L.W. Turnbull, L.G. Walker, R.M.L. Warren. Magnetic Resonance Imaging Screening in Women at Genetic Risk of Breast Cancer: Imaging and Analysis Protocol for the UK Multicentre Study, *Magn. Reson. Imag.* 2000; 18:765-776.
12. G.P. Liney, D.J. Tozer, H. Brunsveld van Hulst, E.G.J. Beerens, P. Gibbs, L.W. Turnbull. A Bilateral Open Breast Coil and Compatible Intervention Device, *J. Magn. Reson. Imag.* 2000, 12: 984-990.

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13. P. Gibbs, D.J. Tozer, G.P. Liney, L.W. Turnbull. Comparison of Quantitative T₂ Mapping and Diffusion Weighted Imaging in the Normal and Pathologic Prostate, *Mag. Reson. Med.* 2001, 46:1054-1058.

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14. R. Garcia-Alvarez, G.P. Liney, A.W. Beavis. Use of Functional Magnetic Resonance Imaging in the Treatment planning of Intensity Modulated Radiotherapy, *J. Radiotherapy in Practice* 2003: 3;63-69.
15. G.P. Liney, A. Heathcote, A. Jenner, L.W. Turnbull, A.W. Beavis. Absolute Radiation Dose Verification using Magnetic Resonance Imaging I: Feasibility Study, *J. Radiotherapy in Practice* 2003: 3;120-127.

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16. P. Gibbs, G.P. Liney, M. Lowry, P.J. Kneeshaw, L.W. Turnbull. Differentiation of benign and malignant sub-1 cm breast lesions using dynamic contrast enhanced MRI, *The Breast* 2004: 13;115-121.
17. D. Nag, G.P. Liney, P. Gillespie, K.P. Sherman. Quantification of T₂ relaxation changes in articular cartilage with in situ mechanical loading of the knee, *J. Magn. Reson. Imag.* 2004: 19;323-328.
18. C.S. Moore, G.P. Liney, A.W. Beavis. Quality assurance phantom for verification and registration of CT and MRI data sets for treatment planning of radiotherapy for head and neck cancers, *J. Applied Clinical Medical Physics* 2004: 22;25-35.

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19. R. Garcia-Alvarez, G.P. Liney, A. Beavis. Repeatability of Functional MRI for conformal avoidance Radiotherapy Planning, *J. Magn. Reson. Imag.* 2006: 23; 108-114.
20. G.P. Liney, S. Muthyala, P. Gibbs, R. Garcia-Alvarez, L.W. Turnbull. Breast lesion analysis of shape technique: Semi-automated versus manual morphological description, *J. Magn. Reson. Imag.* 2006: 23; 493-498.

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21. C.S. Moore, G.P. Liney, A.W. Beavis, J.R. Saunderson. A method to optimise the processing algorithm of a computer radiography system for chest radiography, *Br. J. Radiol.* 2007: 80;1-7.
22. G.P. Liney, C.P. Bernard, D.J. Manton, L.W. Turnbull, C.M. Langton. Age, gender and skeletal variation in bone marrow composition: A preliminary study at 3.0 Tesla, *J. Magn. Reson. Imag.* 2007: 26;787-793.

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23. C.P. Bernard, G.P. Liney, D.J. Manton, L.W. Turnbull, C.M. Langton. Comparison of Fat Quantification Methods: A Phantom Study at 3.0 Tesla, *J. Magn. Reson. Imag.* 2008: 27;192-197.
24. B. Zelhof, M. Pickles, G.P. Liney, P. Gibbs, G. Rodrigues, S. Kraus, L.W. Turnbull. Correlation of diffusion weighted magnetic resonance data with cellularity in prostate cancer, *British Journal of Urology International*, in press.

Other Publications

On-Line/DVD

2010

Module GL-A: The Complete Guide to MRI, On-line MRI

Book Chapters

2003

G.P. Liney and A.W. Beavis. The Role of Magnetic Resonance in Radiotherapy Planning, *Recent Research Developments in Radiology* Ed. A. Gayathri 2003:1; 39-61.

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G.P. Liney. Magnetic Resonance Imaging at 3.0 Tesla: The Physics of High Field Imaging, *SCOPE* 2007; 16(1):22-27.

G.P. Liney. Verification of Radiotherapy Dose Distributions using MRI-Gel Dosimetry, *SCOPE* 2007; 16(2):13-16.

G.P. Liney. Quality Assurance in MRI, *SCOPE* 2007; 16(3):13-16.

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G.P. Liney, Robert Brackenbridge, Mark Dobbs. K-space; The Final Frontier, *SCOPE* 2008; 10-13.

Book Reviews

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R. Bartlett, G. Liney, D. Halden. (Review) V.M. Runge, W.R. Nitz, S.H. Schmeets, W.H. Falukner, N.K. Desai (eds): The physics of clinical MR taught through images, *Neuroradiology* 2006; 48(5): 357

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G.P. Liney. (Review) DW McRobbie et al. MRI From Picture to Proton, *Lancet Oncology* 2007;8: 384.

Conference Proceedings/Published Abstracts

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1. M. Lowry, D.J. Manton, G.P. Liney, S.J. Blackband, L.W. Turnbull, A. Horsman. Citrate Concentration Correlates with Water T_2 in Normal Prostate, SMRM, San Francisco, USA, August 1994.

2. G.P. Liney, D.J. Manton, M. Lowry, L.W. Turnbull, A. Horsman. Magnetic Resonance Spectroscopy of Normal Prostate II, YCRC, Bradford, UK, December 1994

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3. G.P. Liney, M. Lowry, L.W. Turnbull, S.J. Blackband, D.J. Manton, A. Horsman. Citrate Quantification in the Normal Prostate. 5th NMR Symposium at St.George's Hospital, London, UK, January 1995.

4. M. Lowry, G.P. Liney, D.J. Manton, S.J. Blackband, L.W. Turnbull, A. Horsman. Proton Spectroscopy of the Brain and Prostate, BIR Magnetic Resonance Spectroscopy: Clinical and Pre-Clinical, London, UK, March 1995
5. L.W. Turnbull, D.L. Buckley, A.J. Knowles, S.J. Blackband, G.P. Liney, A. Horsman. Value of Dynamic MR Imaging in the Depiction of Prostatic Tumour Location and Extent. BIR Roentgen Centenary Congress, Birmingham, UK, June 1995, *Published in BJR (Suppl.)*.
6. G.P. Liney, M. Lowry, L.W. Turnbull, D.J. Manton, S.J. Blackband, A. Horsman. Metabolic Mapping of the Prostate Using ¹H-MR Spectroscopy and Imaging, SMR, Nice, France, August 1995.
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9. G.P. Liney, M. Lowry, L.W. Turnbull, A.J. Knowles, D.J. Manton, S.J. Blackband, A. Horsman. Metabolic Mapping in the Normal and Pathologic Prostate, BCSMR, Oxford, UK, December 1995.
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11. L.W. Turnbull, D.L. Buckley, A.J. Knowles, G.P. Liney, S.J. Blackband, L.S. Turnbull, A. Horsman. Use of Dynamic Gd-DTPA Enhanced Imaging to Improve Detection of Prostatic Tumours, YCRC, Leeds, UK, December 1995.

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17. G.P. Liney, A.J. Knowles, L.W. Turnbull, A. Horsman. T₂ Mapping with the Fast Spin-Echo and Conventional Spin-Echo Sequences in the Presence of B₁ Inhomogeneities, ISMRM, Vancouver, Canada, April 1997.
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20. A.J. Knowles, G.P. Liney, B. Issa, L.W. Turnbull. Analysis of Gd-DTPA Enhanced MRI Using Neural Networks to Aid the Differentiation Between Prostatic Carcinoma and Benign Prostatic Hypertrophy, ESMRMB, Brussels, Belgium, September 1997. Published in *MAGMA* 1997:5.
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23. B. Issa, G.P. Liney, L.W. Turnbull. Quantification of the Apparent Diffusion Coefficient (ADC) in Normal and Malignant Tissue in the Prostate. YCRC Scientific Meeting, Hull, UK, December 1997.

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24. G.P. Liney, L.W. Turnbull, P. Singh. Magnetic Resonance Spectroscopy and Dynamic Contrast Imaging of Prostate Pathology, EAU, Barcelona, Spain, March 1998.
25. G.P. Liney, A.J. Knowles, L.W. Turnbull. A Simple Method for the Correction of Endorectal Surface Coil Inhomogeneity in Prostate MRI, ISMRM, Sydney, Australia, April 1998.
26. G.P. Liney, L.W. Turnbull. Quantitative Dynamic Contrast Enhanced MRI in the Prostate Following Radiation Therapy: Preliminary Results, ISMRM, Sydney, Australia, April 1998.

27. G.P. Liney, L.W. Turnbull. MRS and Dynamic Contrast Enhanced MRI of Prostatic Carcinoma and Benign Prostatic Hypertrophy, ISMRM, Sydney, Australia, April 1998.
28. B. Issa, G.P. Liney, L.W. Turnbull. Quantification of Voxel Incoherent Motion of Normal and Malignant Prostatic Tissue. ISMRM, Sydney, Australia, April 1998.
29. A.J. Knowles, B. Issa, S. Burton, G.P. Liney, P. Gibbs, L.W. Turnbull. Classification of Benign and Malignant Breast Disease by Neural Network Analysis of Dynamic Imaging. ISMRM, Sydney, Australia, April 1998.
30. A. Jamea, R. Chettleburgh, N. China, D. Jones, G.P. Liney, M. Prior, P.G. Morris. A Gradient System for Projection MRI. ISMRM, Sydney, Australia, April 1998.
31. G.P. Liney, L.W. Turnbull, M. Lowry. Spectroscopy and Dynamic Contrast Enhanced MRI of Prostatic Carcinoma and Benign Prostatic Hypertrophy, BIR, Radiology 1998, Birmingham, UK, June 1998, *Published in BJR (Suppl.)*.
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35. B. Issa, G.P. Liney, L.W. Turnbull. The Quantification of the Apparent Diffusion Coefficient (ADC) in Normal and Malignant Tissue in the Prostate. BIR, Radiology 1998, Birmingham, UK, June 1998, *Published in BJR (Suppl.)*.
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38. A.J. Knowles, B. Issa, S. Burton, P. Gibbs, G.P. Liney, L.W. Turnbull. Classification of Breast Disease with MRI Using Neural Networks. BOA, ACP & RCR joint meeting, Nottingham, UK, July 1998.
39. G.P. Liney, P. Gibbs, L.W. Turnbull. Classification of Benign and Malignant Breast Disease using Quantitative Contrast Enhanced MRI. Symposium Mammographicum, York, UK, July 1998, *Published in Imaging*.
40. G.P. Liney, L.W. Turnbull. Correction for Cardiac Motion in Quantitative Contrast Enhanced Breast MRI. Symposium Mammographicum, York, UK, July 1998, *Published in Imaging*.

41. D.J. Tozer, G.P. Liney, L.W. Turnbull. Lard and Jelly Tissue Equivalent Breast Phantom for MRI, YCR Scientific Meeting, York, UK, December 1998.
42. G.P. Liney, L.W. Turnbull. Dynamic Contrast-Enhanced MRI in the Differentiation of Breast Tumours: Region-of-Interest Analysis, YCR Scientific Meeting, York, UK, December 1998.
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45. G.P. Liney, L.W. Turnbull, A. Barlow, P. Feldschleiber, Quantification of the Effects of the Oral decongestant Pseudoephedrine by MRI and Posterior Rhinomanometry, BIR, Radiology 1999, Birmingham, UK, May 1999, *Published in BJR (Suppl.)*.
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52. G.P. Liney, D.J. Tozer, L.W. Turnbull, Tissue equivalent Breast Phantom for MRI, ESMRMB, Seville, Spain, September 1999. *Published in MAGMA 1999:8*.

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57. D.J. Tozer, P. Gibbs, G.P. Liney, L.W. Turnbull, Correlation of ADC and R2 in the Normal and Diseased Prostate, UKRC, London, May 2001, *Published in BJR (Suppl.);74:p90*.
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59. P. Gibbs, D.J. Tozer, G.P. Liney, L.W. Turnbull, Comparison of Quantitative T2 Mapping and Diffusion Weighted Imaging in the Normal and Pathologic Prostate, Joint meeting of ISMRM and ESMRMB, Glasgow, April 2001.
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75. A. W. Beavis, G.P. Liney. Dynamic Contrast Enhanced MRI in the Inverse Planning of IMRT: Prostate Case Study, UK Radiation Oncology Conference, Bath, UK, April 2003. *Published in Clinical Oncology* 15(2): S5.
76. G.P. Liney, A. Beavis, A. Heathcote, A. Jenner, L.W. Turnbull. An Optimised Gel Dosimeter for Verification of Absolute Radiation Doses using MRI, UK Radiation Oncology Conference, Bath, UK, April 2003. *Published in Clinical Oncology* 15(2): S28.
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116. B. Zelhof, P. Gibbs, G.P. Liney, M.D. Pickles, G. Rodrigues, S. Kraus, L.W. Turnbull. Correlation of magnetic resonance diffusion imaging with cell density in prostate cancer (poster presentation), American Urological Association meeting, Orlando, Florida, May 2008.
117. G.P. Liney, C.P. Bernard, C.M. Langton, L.W. Turnbull. Mapping bone marrow composition in the lumbar spine at 3.0 Tesla, ISMRM, Toronto, Canada, May 2008.

- 118.G.P. Liney, C.P. Bernard, C.M. Langton, L.W. Turnbull. Density, structure and texture quantiation of bone trabeculae at 3.0 Tesla, ISMRM Toronoto, Canada, May 2008.
- 119.G.P. Liney, M. Gober, A.D. Wilson, J.W. Goodby, Relaxometry changes in a gel dosimetry phantom due to continued RF exposure, ISMRM, Toronoto, Canada, May 2008.
- 120.P. Gibbs, G.P. Liney, M.D. Pickles, B. Zelhoff, G. Rodrigues, L.W. Turnbull, Correlation of ADC and T2 with Cell Density in Prostate Cancer at 3.0 T, ISMRM, Toronoto, Canada, May 2008.
- 121.B. Zelhof, P. Gibbs, G.P. Liney, M.D. Pickles, G. Rodrigues, S. Kraus, L.W. Turnbull. Correlation of magnetic resonance diffusion imaging with cell density in prostate cancer, British Association of Urological surgeons, Manchester, June 2008.
- 122.G.P. Liney, M.J. Godber, A. Wilson, A.W. Beavis, Relaxometry Changes in a Gel Dosimetry Phantom due to Continued RF Exposure, DOSGEL 2008, Crete, Greece, September 2008.
- 123.G.P. Liney, D.J. Siddons, D.J. Manton, L.W. Turnbull. Investigating inter-system variation in RF heating, ESMRMB, Valencia, Spain, October 2008.
- 124.C.M. Langton, G.P. Liney, L.W. Turnbull. Quantifying the volume fraction and texture of cancellous bone using 3.0 Tesla Magnetic Resonance Imaging, International Osteoporosis Foundation, Bangkok, Thailand, December 2008.

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- 125.David J. Manton, Gary P. Liney, Roberto Garcia-Alvarez, Lindsay W. Turnbull. Proton MR spectroscopic imaging (MRSI) metabolite ratios in human brain: calculating repeatability when measurement error is proportional to the mean, International Society for Magnetic Resonance in Medicine, Hawaii, USA, April 2009.
- 126.D.J. Manton, G.P. Liney, P. Gibbs, M. Lowry, M.D. Pickles, L.W. Turnbull. Measuring water T2 and water:fat signal ratios with MR spectroscopy and chemical shift imaging (IDEAL): preliminary results in phantoms and breast cancer chemotherapy patients, European Society for Magnetic Resonance in Medicine and Biology, Antalya, Turkey, Oct. 2009
- 127.D.J. Manton, V. Lazar, T. Schirmer, R. Noeske, G.P. Liney, M. Lowry, M.D. Pickles, M. Lorch, L.W. Turnbull. Measuring water:lipid signal ratios with proton MR spectroscopy: dealing with anomalous lipid signal behaviour, European Society for Magnetic Resonance in Medicine and Biology, Antalya, Turkey, Oct. 2009

Invited talks/Seminars

'Examining Brain Function with MRI',

Department of Psychology, York University, November 2002

Musculoskeletal Workshop

Philips Users' meeting, Antwerp, Belgium, May 2003,

'Neuroimaging at 3.0 Tesla'

GE Users' meeting, Edinburgh, April 2006.

'Cardiac MRI'

Cardiology Training Course, Castle Hill Hospital, Hull, April 2008.

MRI lecture Series

Visiting Lecturer Sabbatical, Queensland University of Technology, Brisbane, June 2008

Advanced Imaging in Radiotherapy

MRI lectures, ESTRO course, Utrecht, October 2010.