

List of Publications

Ruth M. Dixon, PhD

Academic Book

Christopher Hood and Ruth Dixon, 2015. *A Government that Worked Better and Cost Less? Evaluating Three Decades of Reform and Change in UK Central Government*, Oxford University Press.

Peer-reviewed publications (chronological order)

1. Synthesis and characterisation by ^1H N.M.R. spectroscopy of diastereoisomeric hydroxy- and dihydroxy-alkyl cobalamins. R.M. Dixon, B.T. Golding, O.W. Howarth, and J.L. Murphy. *J Chem Soc, Chem Commun*, 1983, 243.
2. Concerning the intermediacy of organic radicals in vitamin-B₁₂ dependent enzymic reactions. R.M. Dixon, B.T. Golding, S. Mwesigye-Kibende and D.N.R. Rao. *Phil Trans Roy Soc, Series B*, 1985, **311**, 531.
3. The crystal structure of (*R*)- and (*S*)-2,3-dihydroxypropylcobalamins; comparison with the structure of adenosylcobalamin. N.W. Alcock, R.M. Dixon and B.T. Golding. *J Chem Soc, Chem Commun*, 1985, 603-5.
4. Synthesis of (*R*_p,*R*_p)-*P*¹,*P*⁴-bis(5'-adenosyl)-1[¹⁷O, ¹⁸O₂],-4[¹⁷O, ¹⁸O₂] tetraphosphate from (*S*_p,*S*_p)-*P*¹,*P*⁴-bis(5'-adenosyl)-1[*thio*-¹⁸O₂],4[*thio*-¹⁸O₂] tetraphosphate with retention at phosphorus and the stereochemical course of hydrolysis by the unsymmetrical Ap₄A phosphodiesterase from lupin seeds. R.M. Dixon and G. Lowe. *J Biol Chem*, 1989, **264**, 2069-74.
5. Rubidium-87 NMR studies for evaluation of K⁺ fluxes in human erythrocytes. J.L. Allis, R.M. Dixon, A.M. Till and G.K. Radda. *J Magn Reson*, 1989, **85**, 524.
6. An improved model for B₁₂-dependent diol dehydrase. R.J. Anderson, S. Ashwell, Ruth M. Dixon and Bernard T. Golding. *J Chem Soc, Chem Commun*, 1990, 70-72.
7. A study of transverse relaxation of ⁸⁷Rb in agarose gels by triple quantum filtration. J.L. Allis, R.M. Dixon and G.K. Radda. *J Magn Reson*, 1990, **90**, 141-147.
8. A study of patients with alcoholic liver disease by ³¹P nuclear magnetic resonance spectroscopy. P.W. Angus, R.M. Dixon, B. Rajagopalan, N. Ryley, K.J. Simpson, T.J. Peters, D.P. Jewell, and G.K. Radda. *Clinical Science*, 1990, **78**, 33-38.
9. A non-invasive method of measuring concentrations of rubidium in rat skeletal muscle *in vivo* by ⁸⁷Rb nuclear magnetic resonance spectroscopy: implications for the measurement of cation transport activity *in vivo*. P.D. Syme, R.M. Dixon, J.L. Allis, J.K. Aronson, D.G. Grahame-Smith and G.K. Radda. *Clinical Science*, 1990, **78**, 303-309.
10. Evidence for increased *in vivo* sodium/potassium pump activity and potassium efflux in skeletal muscle of spontaneously hypertensive rats. P.D. Syme, R.M. Dixon, J.K. Aronson, D.G. Grahame-Smith and G.K. Radda. *J Hypertension*, 1990, **8**, 1161-1166.
11. Fructose induced aberration of metabolism in familial gout identified by ³¹P magnetic resonance spectroscopy. J.E. Seegmiller, R.M. Dixon, G.J. Kemp, P.W. Angus, T. E. McAlindon, P. Dieppe, B. Rajagopalan and G.K. Radda. *Proc Natl Acad Sci, USA*, 1990, **87**, 8326-8330.
12. Abnormal phosphomonoester signals in ³¹P MR spectra from patients with hepatic lymphoma. A possible marker of liver infiltration and response to chemotherapy. R.M. Dixon, P.W. Angus, B. Rajagopalan and G.K. Radda. *Br J Cancer*, 1991, **63**, 953-958.

13. NMR studies of phospholipid metabolism and cell proliferation. G.K. Radda, R.M. Dixon and C.A. Wood. *Biochem Soc Trans*, 1991, **19**, 995-6.
14. A ^{31}P MR study of galactose intolerance in human and rat liver *in vivo*; evidence of an increase in hepatic galactose 1-phosphate. B. Kalderon, R.M. Dixon, B. Rajagopalan, P.W. Angus, R.D. Oberhaensli, J.V. Leonard, J.E. Collins and G.K. Radda, *Pediatric Res*, 1992, **32**, 39-44.
15. Changes in phosphatidylethanolamine metabolism in regenerating rat liver as measured by ^{31}P NMR. E.J. Murphy, K.M. Brindle, C.J. Rorison, R.M. Dixon, B. Rajagopalan and G.K. Radda, *Biochim Biophys Acta*, 1992, **1135**, 27-34.
16. ^{31}P magnetic resonance spectroscopy detects a functional abnormality in hepatic metabolism following acetaminophen poisoning. R.M. Dixon, P.W. Angus, B. Rajagopalan and G.K. Radda. *Hepatology*, 1992, **16**, 943-948.
17. An assessment of spin-echo rotating frame imaging for spatially localized determination of short T_2 relaxation times *in vivo*. R.M. Dixon and P. Styles. *Magn Reson Med*, 1992, **29**, 110-112.
18. Alkylcobalamins: formation by enantioselective alkylation of cob(D)alamin, ^1H spectra, and conformational analysis of the alkyl group. R.J. Anderson, R.M. Dixon and B.T. Golding. *J Organometall Chem*, 1992, **437**, 227-237.
19. Phospholipid synthesis in the lymphomatous mouse liver studied by ^{31}P nuclear magnetic resonance spectroscopy *in vitro* and by administration of ^{14}C -radiolabelled compounds *in vivo*. R.M. Dixon and M. Tian. *Biochim Biophys Acta*, 1993, **1181**, 111-121.
20. A ^{31}P zero-quantum study of the interaction of ATP with ferritin. Ruth M. Dixon, J.L. Allis, and B. Rajagopalan. *J Magn Reson, Series B*, 1994, **103**, 68-71
21. ^{31}P magnetic resonance spectroscopy of the liver of an infant with galactosaemia. J.P. Smyth, P.L. Hope, R.M. Dixon, R. Ouwkerk, B. Rajagopalan, and G.K. Radda. *Magma*, 1994, **1**, 100-103.
22. Proton MR spectroscopy of the human kidney *in vivo* by short echo time STEAM sequences. R.M. Dixon and J. Frahm, *Magn Reson Med*, 1994, **31**, 582-487.
23. Assessment of hepatic iron overload in thalassaemic patients by magnetic resonance spectroscopy. R.M. Dixon, P. Styles, F.N. Al-Refaie, G.J. Kemp, S.M. Donohue, B. Wonke, A.V. Hoffbrand, G.K. Radda and B. Rajagopalan. *Hepatology*, 1994, **19**, 904-910.
24. Phosphorus metabolism during growth of lymphoma in mouse liver; a comparison of ^{31}P magnetic resonance spectroscopy *in vivo* and *in vitro*. C.P. Thomas, R.M. Dixon, M. Tian, S.A. Butler, C.J.R. Counsell, J.K. Bradley, G.E. Adams, and G.K. Radda. *Br J Cancer*, 1994, **69**, 633-640.
25. The effect of pH on the growth and motility of *Rhodobacter sphaeroides* WS8 and the nature of the driving force of the flagellar motor. H.L. Packer, D.M. Harrison, R.M. Dixon and J.P. Armitage. *Biochim Biophys Acta*, 1994, **1188**, 101-107.
26. Spectroscopy to quantify liver fat. S.J. Marks, R.M. Dixon, P. Styles, N.G. Ryley, and T.D. Hockaday, *Asia Pacific J Clin Nutr*, 1995, **4**, 195-198.
27. Phosphatidylethanolamine metabolism in the lymphomatous mouse liver, a ^{13}C NMR study. R.M. Dixon. *Anticancer Res*, 1996, **16**, 1351-1356.
28. Effect of creatine on aerobic and anaerobic metabolism in skeletal muscle in swimmers. C.H. Thompson, G.J. Kemp, A.L. Sanderson, R.M. Dixon, P. Styles, D.J. Taylor and G.K. Radda. *Br J Sports Med*, 1996, **30**, 1-4.

29. Vasopressin synergistically stimulates DNA synthesis in the normal and regenerating rat liver cell cultures in the presence of hepatocyte growth factor. A.M.J. Metcalfe, P. Phillips, R.M. Dixon, and G.K. Radda. *J Molec Endocrinology*, 1997, **18**, 161-166.
30. Wild type, but not mutant p53 activates the hepatocyte growth factor/ scatter factor promotor. A.M.J. Metcalfe, R.M. Dixon, and G.K. Radda. *Nucleic Acids Res*, 1997, **25**, 983-986.
31. NMR studies of phospholipid metabolism in hepatic lymphoma. R.M. Dixon, *NMR in Biomed*, 1998, **11**, 370-379.
32. Excitatory amino acid synthesis in hypoxic brain slices: Does alanine act as a substrate for glutamate production in hypoxia? J.L. Griffin, C. Rae, R.M. Dixon, G.K. Radda, and P.M. Matthews. *J Neurochem*, 1998, **71**, 2477-2486.
33. Brain biochemistry in Duchenne muscular dystrophy: A H-1 magnetic resonance and neuropsychological study. C. Rae, R.B. Scott, C.H. Thompson, R.M. Dixon, I. Dumughn, G.J. Kemp, A. Male, M. Pike, P. Styles, and G.K. Radda. *J Neurolog. Sci*, 1998, **160**, 148-157.
34. Brain biochemistry in Williams syndrome: evidence for a role of the cerebellum in cognition? C. Rae, A. Karmiloff-Smith, M.A. Lee, R.M. Dixon, J. Grant, A.M. Blamire, C.H. Thompson, P. Styles, and G.K. Radda. *Neurology*, 1998, **51**, 33-40.
35. Metabolic abnormalities in developmental dyslexia detected by ¹H magnetic resonance spectroscopy. C. Rae, M.A. Lee, R.M. Dixon, A.M. Blamire, C.H. Thompson, P. Styles, J. Talcott, A.J. Richardson, J.F. Stein. *Lancet* 1998, **351**, 1849-52.
36. Separate quantification of doubly and singly ¹³C-labelled metabolites by HSQC-filtered J-spectroscopy. A.P. Davison, J.A. Jones, and R.M. Dixon, *J Magn Reson*, 1999 **137**, 448-450.
37. ³¹P Magnetic Resonance Spectroscopy of the Liver in HELLP Syndrome. L.A. Magee, R.M. Dixon, G.J. Kemp, C.W.G. Redman, and P. Styles, *Br J Obstet Gyn*, 1999, **106**, 582-588.
38. Phase II study of the oxygen saturation curve left shifting agent BW12C in combination with the hypoxia-activated drug mitomycin C in advanced colorectal cancer. D.J. Propper, N.C. Levitt, K. O'Byrne, J.P. Braybrook, D.C. Talbot, T.S. Ganesan, C.H. Thompson, B. Rajagopalan, T.J. Littlewood, R.M. Dixon, and A.L. Harris, *Br J Cancer*, 2000, **82**, 1776-1782.
39. N-acetylaspartate and DARPP-32 levels decrease in the corpus striatum of Huntington's disease mice. A. van Dellen, J. Welch, R.M. Dixon, P. Cordery, D. York, P. Styles, C. Blakemore, A.J. Hannan. *Neuroreport* 2000, **11**, 3751-3757 .
40. Hypo-osmotic swelling-activated release of organic osmolytes in brain slices: implications for brain oedema in vivo. J.H. Bothwell, C. Rae, R.M. Dixon, P. Styles, K.K. Bhakoo. *J Neurochem* 2001, **77**, 1632-1640.
41. Daytime liver glycogen accumulation, measured by C-13 magnetic resonance spectroscopy, in young children with Type 1 diabetes mellitus. K. Matyka, R.M. Dixon, A. Mohn, B. Rajagopalan, E. Shmueli, P. Styles, D.B. Dunger. *Diabetic Medicine* 2001, **18**, 659-662.
42. Cerebellar morphology in developmental dyslexia. C. Rae, J.A. Harasty, T.E. Dzendrowskyj, J.B. Talcott, J.M. Simpson, A.M. Blamire, R.M. Dixon, M.A. Lee, C.H. Thompson, P. Styles, A.J. Richardson, J.F. Stein. *Neuropsychologia* 2002, **40**, 1285-1292.
43. Longitudinal quantitative proton MR spectroscopy of the hippocampus in Alzheimer's disease. R.M. Dixon, K.M. Bradley, M.M. Budge, P. Styles, and A.D. Smith. *Brain* 2002, **125**, 2332-2341.
44. In vivo monitoring of rat brain metabolites during vigabatrin treatment using localized 2D-COSY. J.W.R. Welch, K. Bhakoo, R.M. Dixon, P. Styles, N.R. Sibson, and A.M. Blamire. *NMR Biomed* 2003, **16**, 47-54.

45. Rating the Rankings: Assessing International Rankings of Public Service Performance. Christopher Hood, Ruth Dixon and Craig Beeston. *International Public Management Journal* 2008 11(3): 298-358 (Winner of the June Pallot Award for best article in IPMJ 2008)
46. Testing Times: Exploring staged responses and the impact of blame management strategies in two exam fiasco cases. Christopher Hood, Will Jennings, Ruth Dixon, Brian Hogwood with Craig Beeston. *European Journal of Political Research* 2009 48:695-722.
47. The Political Payoff of Target Systems: No-Brainer or No-Gainer? Christopher Hood and Ruth Dixon. *Journal of Public Administration Research and Theory*, 2010 20 (Suppl. 2): i281-i298.
48. A Lever for Improvement or a Magnet for Blame? Press and Political Responses to International Educational Rankings in Four EU Countries. Ruth Dixon, Christiane Arndt, Manuel Mullers, Jarmo Vakkuri, Kristiina Engblom-Pelkkala, and Christopher Hood. *Public Administration* 2013 91:2 484–505.
49. A Model of Cost-Cutting in Government? The Great Management Revolution in UK Central Government Reconsidered. Christopher Hood and Ruth Dixon. *Public Administration* 2013 91:1 114 –134.
50. Conspiracist Ideation and Climate Science Belief: An Alternative Analysis. Ruth Dixon and Jonathan Jones. Commentary in *Psychological Science* 2015. Article published online: 26 March 2015.
51. What We Have to Show for 30 Years of New Public Management: Higher Costs, More Complaints. Christopher Hood and Ruth Dixon. Commentary in *Governance* 2015. Article published online: 7 Apr 2015.

Other publications:

- Energetics, control, and metabolic lesions in the liver. George K. Radda, Ruth M. Dixon, Peter W. Angus and Bheeshma Rajagopalan. In “Regulation of Hepatic Function, Alfred Benzon Symposium 30”, N. Grunnet and B. Quistorff, Eds, Munksgaard, Copenhagen, 1991, 433-442.
- ³¹P NMR studies of metabolic lesions in the liver, Ruth M. Dixon. In “Adenine Nucleotides in Cellular Energy Transfer and Signal Transduction”, S. Papa, A. Azzi, and J.M. Tager, Eds, Birkhauser Verlag, Basel, 1992, 125-136.
- Phosphorus-31 magnetization transfer in whole body studies. Ruth M. Dixon. In “The Encyclopaedia of NMR” Volume 4, I.R. Young, Ed, John Wiley, 1996.
- Magnetic Resonance: In vivo NMR, applications - ³¹P. Ruth M. Dixon and Peter Styles. In “Encyclopedia of Spectroscopy and Spectrometry”, J.C. Lindon, G.E. Tranter and J.L. Holmes, Eds, Academic Press (London), 1999.
- Family Travel: Take the road to nowhere. Ruth Dixon, *The Independent*, June 23, 2000. <http://www.independent.co.uk/travel/europe/take-the-road-to-nowhere-633744.html>
- Christopher Hood, Carl Emmerson and Ruth Dixon, 2009. *Public Spending in Hard Times*. Briefing paper presented at the Institute for Government, 1 June 2009. Pub: ESRC Public Services Programme. [PDF](#)
- Ruth Dixon, Christopher Hood and Deborah Wilson, 2010. ‘Keeping Up the Standards?’, *School Leadership Today*. [PDF](#)
- Christopher Hood, Ruth Dixon and Deborah Wilson, 2010. *Managing by Numbers: the Way to Make Public Services Better?* Briefing paper. Pub: ESRC Public Services Programme. [PDF](#)
- Ruth Dixon and Christopher Hood, 2012. ‘Ranking for Success: a No-brainer?’ *Oxford Magazine*, Noughth Week, Michaelmas Term 2012.

Ruth Dixon and Martin Lodge (editors), 2012. *Explorations in Governance: a Collection of Papers in Honour of Christopher Hood*. This publication contained contributions from over 20 international authors. I instigated and co-organized an associated symposium in celebration of Christopher Hood's 65th birthday, held at the Institute for Government in March 2012. [PDF via xgov website](#)

Ruth Dixon and Christopher Hood, 2015. Policy Briefing, *How Data Churn Destroys Evidence about Public Service Performance and What Can be Done about It*. (launched at LSE, 17 April 2015) [PDF](#)