# Professor Robert NS Heard

**Selected Publications**


1. An allelic cluster of DQa restriction fragments is associated with multiple sclerosis: evidence that a second haplotype may influence disease susceptibility. Heard RNS, Cullen C, Middleton D, Hawkins SA, Hern JEC, McDonald WI, Batchelor JR, Lechler RI. Human Immunology 25:111, 1989.

2. HLA and Autoimmunity. Heard RNS. In HLA and Disease, Lechler RI ed, pp. 119-147. Academic Press, London, 1994 (book chapter).

3. The CCR5 deletion mutation fails to protect against multiple sclerosis. Bennetts BH, Teutsch SM, Buhler MM, Heard RNS, and Stewart GJ. Human Immunology, 58:52-59, 1997.

4. Lack of restriction of T cell receptor beta-gene usage in cerebrospinal fluid (CSF) lymphocytes in acute optic neuritis. Heard, RNS, Teutsch SM, Bennetts BH, Lee S, Deane E, and Stewart GJ. Journal of Neurology, Neurosurgery and Psychiatry 67:585-590, 1999.

5. Hyperbaric oxygen therapy for multiple sclerosis (Protocol for a Cochrane Review). Bennett M, Heard R. In: The Cochrane Library, Issue 1, 2001. Oxford: Update Software

6. Hyperbaric oxygen therapy for multiple sclerosis. Bennett M, Heard R. Cochrane Database Syst Rev. 2004; (1):CD003057

7. Identification of eleven novel and common single nucleotide polymorphisms in the interleukin-7 receptor gene and their associations with multiple sclerosis. Teutsch SM, Booth DR, Bennetts, BH, Heard RNS, Stewart GJ. (2003) Eur J Hum Genet 11:509-515

8. A high density screen for linkage in multiple sclerosis. The International Multiple Sclerosis Genetics Consortium. (2005). Am. J. Hum. Gen. 77(3):454-67

9. CD127 immunophenotyping suggests altered CD4+ T cell regulation in primary progressive multiple sclerosis. McKay FC, Swain LI, Schibechi SD, Rubio JP, Kilpatrick TJ, Heard RN, Stewart GJ, Booth DR. J Autoimmunity 2008 Aug: 31(1):52-8.

10. Refining genetic associations in multiple sclerosis. International Multiple Sclerosis Genetics Consortium (IMSGC). Lancet Neurol. 2008 Jul; 7(7):567-9

11. Genome-wide scan identifies novel multiple sclerosis susceptibility loci on chromosomes 12 and 20. ANZgene Consortium. Nature Genetics 2009 Jul;41(7):824-8 Epub 2009 Jun 14

12. Lack of support for association between the KIF1B rs10492972[C] variant and multiple sclerosis. Booth DR, Heard RN, Stewart GJ, Cox M, Scott RJ, Lechner-Scott J, Goris A, Dobosi R, Dubois B, Saarela J, Leppä V, Peltonen L, Pirttila T, Cournu-Rebeix I, Fontaine B, Bergamaschi L, D'Alfonso S, Leone M, Lorentzen AR, Harbo HF, Celius EG, Spurkland A, Link J, Kockum I, Olsson T, Hillert J, Ban M, Baker A, Kemppinen A, Sawcer S, Compston A, Robertson NP, De Jager PL, Hafler DA, Barcellos LF, Ivinson AJ, McCauley JL, Pericak-Vance MA, Oksenberg JR, Hauser SL, Sexton D, Haines J, International Multiple Sclerosis Genetics Consortium (IMSGC). Nat Genet. 2010 Jun;42(6):469-70

13. Functionally significant differences in expression of disease-associated IL-7 receptor alpha haplotypes in CD4 T cells and dendritic cells. Hoe E, McKay FC, Schibeci SD, Gandhi K, Heard RN, Stewart GJ, Booth DR. J Immunol. 2010 Mar 1;184(5):2512-7. Epub 2010 Jan 22

14. Genetic risk and a primary role for cell-mediated immune mechanisms in multiple sclerosis. International Multiple Sclerosis Genetics Consortium; Wellcome Trust Case
Control Consortium. Nature. 2011 Aug 10;476(7359):214-9

15. Molecular inconsistencies in a Fragile X male with early onset ataxia. Hwang YT, Dudding T, Aliaga SM, Arpone M, Francis D, Li X, Slater HR, Rogers C, Bretherton L, du Sart D, Heard R*, Godler DE*. Genes (Basel). 2016 Sep 21;7(9) (*joint last authors)

16. Partially methylated alleles, microdeletion, and tissue mosaicism in a Fragile X male with tremor and ataxia at 30 years of age. Hwang YT, Aliaga SM, Arpone M, Francis D, Li X, Chong B, Slater HR, Rogers C, Bretherton L, Hunter M, Heard R*, Godler DE*. Am J Med Genet A. 2016 Dec;170(12):3327-3332 (*joint last authors)

**Other publications by year**

**1978**

17. Plasma protein binding of maprotyline: influence of a-1 acid glycoprotein. Braithwaite R, Heard R, Snape A. Proc.Br.Pharm.Soc. 25:23-24, 1978.

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**1982**

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20. The detection of HLA Class II restriction fragment length polymorphisms in multiple sclerosis using pooled DNA samples.Heard RNS, Dodi IA, Batchelor JR, McDonald WI, Lechler RI. International Congress, Virology and Immunology in Multiple Sclerosis. Edited by L.Cazullo, Berlin:Springer-Verlag, 1988.

21. An HLA-DQa allele associated with multiple sclerosis: evidence for the involvement of two haplotypes in disease susceptibility. Heard RNS, Batchelor JR, McDonald WI, Lechler RI. J.Neurol. 235(supp):S7, 1988.

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32. HLA-DMB gene and HLA-DRA promoter region polymorphisms in Australian multiple sclerosis patients. Bennetts BH, Teutsch SM, Buhler MM, Heard RNS, Stewart GJ. Hum Immunology 60:886-893, 1999.

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34. Evaluation of the Apo-1/Fas promoter Mva I polymorphism in multiple sclerosis. Teutsch SM*, Huang QR*, Buhler MM, Bennetts BH, Heard RNS, Manolios N, Stewart GJ. (2000) Multiple Sclerosis 6:14-18 (* joint first authors)

35. T cell receptor ß chain genotyping in Australian relapsing-remitting multiple sclerosis patients. Buhler MMcW, Bennetts BH, Heard RNS, Stewart GJ. (2000) Multiple Sclerosis. Jun;6(3):140-7

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48. An investigation of polymorphisms in the 4q13.3-21.1 CXC chemokine cluster for association with MS in Australians. Bugeja MJ, Booth DR, Bennetts BH, Heard RNS, Stewart GS. (2006). Mult Scler. 12(6):710-22

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53. SNP mapping and candidate gene sequencing in the class I region of the HLA complex: searching for multiple sclerosis susceptibility genes in Tasmanians. Burfoot RK, Jensen CJ, Field J, Stankovich J, Varney MD, Johnson LJ, Butzkueven H, Booth D, Bahlo M, Tait BD, Taylor BV, Speed TP, Heard R, Stewart GJ, Foote SJ, Kilpatrick TJ, Rubio JP. Tissue Antigens. 2008 Jan;71(1):42-50. Epub 2007 Oct 30.

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Patsopoulos NA; Bayer Pharma MS Genetics Working Group; Steering Committees of Studies Evaluating IFNβ-1b and a CCR1-Antagonist; ANZgene Consortium; GeneMSA; International Multiple Sclerosis Genetics Consortium, Esposito F, Reischl J, Lehr S, Bauer D, Heubach J, Sandbrink R, Pohl C, Edan G, Kappos L, Miller D, Montalbán J, Polman CH, Freedman MS, Hartung HP, Arnason BG, Comi G, Cook S, Filippi M, Goodin DS, Jeffery D, O'Connor P, Ebers GC, Langdon D, Reder AT, Traboulsee A, Zipp F, Schimrigk S, Hillert J, Bahlo M, Booth DR, Broadley S, Brown MA, Browning BL, Browning SR, Butzkueven H, Carroll WM, Chapman C, Foote SJ, Griffiths L, Kermode AG, Kilpatrick TJ, Lechner-Scott J, Marriott M, Mason D, Moscato P, Heard RN, Pender MP, Perreau VM, Perera D, Rubio JP, Scott RJ, Slee M, Stankovich J, Stewart GJ, Taylor BV, Tubridy N, Willoughby E, Wiley J, Matthews P, Boneschi FM, Compston A, Haines J, Hauser SL, McCauley J, Ivinson A, Oksenberg JR, Pericak-Vance M, Sawcer SJ, De Jager PL, Hafler DA, de Bakker PI. Ann Neurol. 2011 Dec;70(6):897-912

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**2013**

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Lin R, Charlesworth J, Stankovich J, Perreau VM, Brown MA; ANZgene Consortium, Taylor BV.
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