

Selected Publications

Updated NCBI Bibliography found here:

www.ncbi.nlm.nih.gov/sites/myncbi/1tW9kpcT6z6kw/bibliography/41704051/public/?sort=date&direction=descending

1. D.A. Barnes, M. Hoener, **C.S. Moore**, and M.D. Berry. TAAR1 regulates purinergic-induced TNF secretion from peripheral, but not CNS-resident, macrophages. **J. Neuroimmune Pharmacol.** 2022 Nov 16. pubmed.ncbi.nlm.nih.gov/36380156/
2. S. Arsenault, R.Y. Benoit, F. Clift, and **C.S. Moore**. Does the use of the Bruton Tyrosine Kinase inhibitors and the c-kit inhibitor masitinib result in clinically significant outcomes among patients with various forms of multiple sclerosis? **Mult Scler Relat Disord.** 2022 Nov;67:104164. pubmed.ncbi.nlm.nih.gov/36126539/
3. D.A. Galloway, S.J. Carew, S.N. Blandford, N. Fudge, T. Berry, G.R.W. Moore, J. Barron, and **C.S. Moore**. Investigating the NLRP3 inflammasome and its regulator mir-223-3p in multiple sclerosis and experimentally-induced demyelination. **J. Neurochem.** 2022 Oct;163(2):94-112. pubmed.ncbi.nlm.nih.gov/35633501/
4. S.N. Blandford, N. Fudge, C. Corkum and **C.S. Moore**. Analysis of plasma using flow cytometry reveals increased lymphocyte-derived extracellular vesicles in stable untreated relapse remitting multiple sclerosis. **Front. Immunol.** 2022 Mar 22;13:803921. pubmed.ncbi.nlm.nih.gov/35392085/
5. D.A. Barnes, D.A. Galloway, M. Hoener, M.D. Berry, and **C.S. Moore**. TAAR1 expression in human macrophages and brain tissue: a potential novel facet of MS neuroinflammation. **Int. J. Mol. Sci.** 2021; 22(21), 11576. pubmed.ncbi.nlm.nih.gov/34769007/
6. S.N. Blandford, D.A. Galloway, J.B. Williams, S. Arsenault, J. Brown, G. MacLean, GRW Moore, J. Barron, M. Ploughman, F. Clift, M. Stefanelli, **C.S. Moore**. Interleukin-1 receptor antagonist: An exploratory plasma biomarker that correlates with disability and provides pathophysiological insights in relapsing-remitting multiple sclerosis. **Mult Scler Relat Disord.** 2021 May 7;52:103006. pubmed.ncbi.nlm.nih.gov/34004435/
7. D.A. Galloway, A.E.M Phillips, D.R.J. Owen, **C.S. Moore**. Phagocytosis in the Brain: Homeostasis and Disease. **Front Immunol.** 2019 Apr 16;10:790. www.ncbi.nlm.nih.gov/pubmed/31040847
8. D.A. Galloway, S.N. Blandford, T. Berry, J.B. Williams, M. Stefanelli, M. Ploughman, **C.S. Moore**. mir-223 promotes regenerative myeloid cell phenotype and function in the demyelinated central nervous system. **Glia.** 2019 May;67(5):857-869. www.ncbi.nlm.nih.gov/pubmed/30548333
9. S.N. Blandford, D.A. Galloway, and **C.S. Moore**. The roles of extracellular vesicle microRNAs in the central nervous system. **Glia.** 2018 Nov;66(11):2267-2278. www.ncbi.nlm.nih.gov/pubmed/29726599
10. D.A. Galloway, J.B. Williams, and **C.S. Moore**. Effects of Fumarates on Inflammatory Human Astrocyte Responses and Oligodendrocyte Differentiation. **Annals Clinical and Translational Neurology.** 2017 May 4;4(6):381-391. www.ncbi.nlm.nih.gov/pubmed/28589165

11. D.R. Owen, N. Narayan, L. Wells, L.M. Healy, E. Smyth, E.A. Rabiner, D. Galloway, J.B. Williams, J. Lehr, H. Mandhair, L.A.N. Peferoen, P.C. Taylor, S. Amor, J.P. Antel, P.M. Matthews, and **C.S. Moore**. Pro-inflammatory activation of primary microglia and macrophages increases 18kDa Translocator Protein (TSPO) expression in rodents but not human. **J. Cerebral Blood Flow and Metabol.** 2017 Aug;37(8):2679-2690. www.ncbi.nlm.nih.gov/pubmed/28530125
12. N. Levtova, L.M. Healy, C.M.C. Gonczi, B. Stopnicki, T.E. Kennedy, M. Blain, **C.S. Moore**, J.P. Antel, P.J. Darlington. Comparative morphology and phagocytic capacity of primary human adult microglia with time-lapse imaging. **J. Neuroimmunol.** 2017 Sep 15;310:143-149. www.ncbi.nlm.nih.gov/pubmed/28606377
13. W. Haenseler, S.N. Sansom, J. Buchrieser, S. Newey, **C.S. Moore**, F. Nichols, S. Chintawar, C. Schnell, J.P. Antel, N. Allen, Z. Cader, R. Wade-Martins, W. James, S.A. Cowley. A human pluripotent stem cell microglia neuronal co-culture model displays a co-culture-specific expression profile and inflammatory response. **Stem Cell Reports.** 2017 Jun 6;8(6):1727-1742. www.ncbi.nlm.nih.gov/pubmed/28591653
14. M. Cortes, M. Cao, H.L. Liu, **C.S. Moore**, L.D. Durosier, P. Burns, G. Fecteau, A. Desrochers, L. Barreiro, J.P. Antel, M. Frasch. $\alpha 7$ nicotinic acetylcholine receptor signaling modulates the inflammatory phenotype of fetal brain microglia: first evidence of interference by iron homeostasis. **Scientific Reports.** 2017 Sep 6;7(1):10645. www.ncbi.nlm.nih.gov/pubmed/28878260
15. D.A. Galloway and **C.S. Moore**. The Role of MicroRNAs in Remyelination of the Central Nervous System. **Frontiers Cell Devel. Biol.** 2016 Jun 17;4:59. www.ncbi.nlm.nih.gov/pubmed/27379236
16. L.M. Healy, G. Perron, S.Y. Won, M-C Guiot, **C.S. Moore**, A. Bar-Or, and J.P. Antel. Differential Transcriptional Response Profiles in Human Myeloid Cell Populations. **J. Clin Immunol** 2016 Apr 16. www.ncbi.nlm.nih.gov/pubmed/27094466
17. S.K. Ludwin, V.T.S. Rao, **C.S. Moore**, and J.P. Antel. Astrocytes in Multiple Sclerosis. **Multiple Sclerosis Journal.** 2016 Aug;22(9):1114-24. www.ncbi.nlm.nih.gov/pubmed/27207458
18. L.M. Healy, G. Perron, S.Y. Won, M. Michell Robinson, A. Rezyk, S.K. Ludwin, **C.S. Moore**, A. Bar-Or, and J.P. Antel. MerTK is a Functional Regulator of Myelin Phagocytosis by Human Myeloid Cells. **J. Immunol.** 2016 Apr 15;196(8):3375-84. www.ncbi.nlm.nih.gov/pubmed/26962228
19. V.T.S. Rao, S.K. Ludwin, S.C. Fuh, R. Sawaya, **C.S. Moore**, M-K Ho, B.J. Bedell, H.B. Sarnat, A. Bar-Or, and J.P. Antel. 2016. MicroRNA Expression Patterns in Human Astrocytes in relation to Anatomical Location and Age. **J Neuropathol and Exp Neurol.** 2016 Feb;75(2):156-66. www.ncbi.nlm.nih.gov/pubmed/26802178
20. R. Li., A. Rezk, Y. Miyazaki, E. Hilgenberg, H. Touil, P. Shen, **C.S. Moore**, L. Michel, F. Althekair, S. Rajasekharan, J. Gommerman, A. Prat, S. Filatreau and A. Bar-Or. Human BGM-CSF cells: a novel subset of pro-inflammatory B cells implicated in pathogenesis of Multiple Sclerosis. **Science Translational Medicine** 2015 Oct 21;7(310):310ra166. www.ncbi.nlm.nih.gov/pubmed/26491076
21. V. Sénécal, G. Deblois, D. Beauseigle, R. Schneider, **C.S. Moore**, J. Newcombe, A. Prat, J.P. Antel, and N. Arbour. CNS-produced IL-27 contributes to immune responses in multiple sclerosis. **Glia.** 2016 Apr;64(4):553-

69. www.ncbi.nlm.nih.gov/pubmed/26649511
22. M. Michell-Robinson, **C.S. Moore**, L. Healy, L. Osso, N. Zorko, V. Grouza, L. Poliquin-Lasnier, A-M Trudelle, P. Giacomini, A. Bar-Or, and J.P. Antel. Effects of fumarate on circulating and CNS myeloid cells in multiple sclerosis. **Annals Clinical and Translational Neurology** 2015. Dec 2;3(1):27-41. www.ncbi.nlm.nih.gov/pubmed/26783548
23. M. Cao, M. Cortes, **C.S. Moore**, S.Y. Leong, L.D. Durosier, P. Burns, G. Fecteau, A. Desrochers, R.N. Auer, L. Barreiro, J.P. Antel, and M.G. Frasch. Fetal microglial phenotype in vitro carries memory of prior in vivo exposure to inflammation. **Frontiers in Cellular Neuroscience** 2015 Aug 4(9):294. www.ncbi.nlm.nih.gov/pubmed/26300730
24. M. Michell-Robinson, H. Touil, L. Healy, B.A. Durafourt, D.R. Owen, A. Bar-Or, J.P. Antel, and **C.S. Moore**. Roles of Microglia in Brain Development, Tissue Maintenance, and Repair. **Brain** 2015 May;138(Pt 5):1138-59. www.ncbi.nlm.nih.gov/pubmed/25823474
25. **C.S. Moore**, A.R. Anse, A. Kinsara, V.T.S. Rao, M. Michell-Robinson, S.Y. Leong, O. Butovsky, S.K. Ludwin, P. Séguéla, A. Bar-Or, and J.P. Antel. P2Y12 expression and function in M2-alternatively activated human microglia. **Neurology: Neuroimmunology and Neuroinflammation** 2015 Mar 19;2(2):e80. www.ncbi.nlm.nih.gov/pubmed/25821842
26. **C.S. Moore**, Q.L. Cui, N. Warsi, B.A. Durafourt, N. Zorko, D.R. Owen, J.P. Antel and A. Bar-Or. Direct and Indirect Effects of Immune and Central Nervous System-Resident Cells on Human Oligodendrocyte Progenitor Cell Differentiation. **Journal of Immunology** 2015 Jan 15;194(2):761-72. www.ncbi.nlm.nih.gov/pubmed/25505283
27. A. Feinstein, S. Magalhaes, J-F. Richard, B. Audet, **C.S. Moore**. The link between multiple sclerosis and depression. **Nature Reviews Neurology** 2014 Sep;10(9):507-17. www.ncbi.nlm.nih.gov/pubmed/25112509
28. Y. Miyazaki, H. Misirliyan, R. Li, **C.S. Moore**, N. Farooqi, M. Solis, L. Galleguillos Goiry, O. de Faria Junior, V.D. Dang, D. Colman, A. Singh Dhaunchak, J.P. Antel, J. Gommerman, A. Prat, S. Fillatreau, A. Bar-Or. A novel microRNA-132-surtuin-1 axis underlies aberrant B-cell cytokine regulation in patients with relapsing-remitting multiple sclerosis. **PLoS One**. 2014 Aug 9(8). www.ncbi.nlm.nih.gov/pubmed/25136908
29. O. Butovsky, M.P. Jedrychowski, **C.S. Moore**, R. Cialic, A.J. Lanser, G. Gabriely, T. Koeglsperger, B. Dake, P.M. Wu, C.E. Doykan, Z. Fanek, L. Liu, Z. Chen, J.D. Rothstein, R.M. Ransohoff, S.P. Gygi, J.P. Antel, H.L. Weiner. Identification of a unique TGF- β -dependent molecular and functional signature in microglia. **Nature Neurosci**. 2014 Jan;17(1):131-43. www.ncbi.nlm.nih.gov/pubmed/24316888
30. D. Henault, L. Galleguillos-Goiry, **C.S. Moore**, T. Johnson, A. Bar-Or, J.P. Antel. Basis for Fluctuations in Lymphocyte Counts in FTY720-Treated Multiple Sclerosis Patients. **Neurology** 2013 Nov 12;81(20):1768-72. www.ncbi.nlm.nih.gov/pubmed/24132373
31. **C.S. Moore**, V. Rao, B.A. Durafourt, B.J. Bedell, S.K. Ludwin, A. Bar-Or, J.P. Antel. Mir-155 as a multiple sclerosis-relevant regulator of myeloid cell polarization. **Annals of Neurology** 2013 Nov;74(5):709-20. www.ncbi.nlm.nih.gov/pubmed/23818336

32. B.A. Durafourt, **C.S. Moore**, M. Blain, J.P. Antel. Isolating, culturing, and polarizing primary human adult and fetal microglia. **Methods Mol. Biol.** 2013;1041:199-211. www.ncbi.nlm.nih.gov/pubmed/23813381
33. C. Wu, S.Y. Leong, **C.S. Moore**, P. Gris, L.P. Bernier, T.A. Johnson, P. Seguela, T.E. Kennedy, Q.L. Cui, A. Bar-Or, J.P. Antel. Dual effects of daily FTY720 on human astrocytes in vitro: relevance for neuroinflammation. **J. Neuroinflamm.** 2013 Mar 19;10(1):41. www.ncbi.nlm.nih.gov/pubmed/23509960
34. K. Ijichi, G.D. Brown, **C.S. Moore**, J.P. Lee, P.N. Winokur, R. Pagarigan, E.Y. Snyder, E.R. Bongarzone, S.J. Crocker. MMP-3 mediates psychosine-induced globoid cell formation: Implications for leukodystrophy pathology. **Glia** 2013 May;61(5):765-77. www.ncbi.nlm.nih.gov/pubmed/23404611
35. O. de Faria Jr, **C.S. Moore**, T.E. Kennedy, J.P. Antel^[SEP], A. Bar-Or, A.S. Dhaunchak. MicroRNA dysregulation in multiple sclerosis. **Front. Genetics.** 2012 3:311. www.ncbi.nlm.nih.gov/pubmed/23346094
36. B.A. Durafourt, **C.S. Moore**, D.A. Zammit, T.A. Johnson, F. Zaguia, M.C. Guiot, A. Bar-Or, J.P. Antel. Comparison of polarization properties of human adult microglia and blood-derived macrophages. **Glia** 2012 May;60(5):717-727. www.ncbi.nlm.nih.gov/pubmed/22290798
37. **C.S. Moore** and S.J. Crocker. The Roles of TIMPs: An Alternate Perspective of TIMPs and MMPs in Pathology. **American J. Pathol.** 2012 Jan;180(1):12-6. www.ncbi.nlm.nih.gov/pubmed/22033229
38. **C.S. Moore**, R. Milner, A. Nishiyama, R.F. Frausto, D.R. Serwanski, R.R. Pagarigan, J.L. Whitton, R.H. Miller, S.J. Crocker. Astrocytic TIMP-1 Promotes Oligodendrocyte Differentiation and Enhances CNS Myelination. **J Neurosci.** 2011. Apr 20;31(16):6247-54. www.ncbi.nlm.nih.gov/pubmed/21508247