

TOMAS OLSSON PUBLICATIONS 2014

Peer-reviewed articles

1: Warnke C, Stettner M, Lehmensiek V, Dehmel T, Mausberg AK, von Geldern G, Gold R, Kömpfel T, Hohlfeld R, Maurer M, Stangel M, Straeten V, Limmroth V, Weber T, Kleinschnitz C, Wattjes MP, Svenningsson A, Olsson T, Hartung HP, Hermsen D, Tumani H, Adams O, Kieseier BC. Natalizumab exerts a suppressive effect on surrogates of B cell function in blood and CSF. *Mult Scler.* 2014 Nov 12. pii: 1352458514556296. [Epub ahead of print] PubMed PMID: 25392339.

2: Warnke C, Dehmel T, Ramanujam R, Holmen C, Nordin N, Wolfram K, Leussink VI, Hartung HP, Olsson T, Kieseier BC. Initial lymphocyte count and low BMI may affect fingolimod-induced lymphopenia. *Neurology.* 2014 Oct 31. pii: 10.1212/WNL.0000000000001049. [Epub ahead of print] PubMed PMID: 25361781.

3: Hedström AK, Bomfim IL, Barcellos LF, Briggs F, Schaefer C, Kockum I, Olsson T, Alfredsson L. Interaction between passive smoking and two HLA genes with regard to multiple sclerosis risk. *Int J Epidemiol.* 2014 Oct 15. pii: dyu195. [Epub ahead of print] PubMed PMID: 25324153.

4: Hartmann FJ, Khademi M, Aram J, Ammann S, Kockum I, Constantinescu C, Gran B, Piehl F, Olsson T, Codarri L, Becher B. Multiple sclerosis-associated IL2RA polymorphism controls GM-CSF production in human TH cells. *Nat Commun.* 2014 Oct 3;5:5056. doi: 10.1038/ncomms6056. PubMed PMID: 25278028.

5: Gianfrancesco MA, Acuna B, Shen L, Briggs FB, Quach H, Bellesis KH, Bernstein A, Hedstrom AK, Kockum I, Alfredsson L, Olsson T, Schaefer C, Barcellos LF. Obesity during childhood and adolescence increases susceptibility to multiple sclerosis after accounting for established genetic and environmental risk factors. *Obes Res Clin Pract.* 2014 Sep-Oct;8(5):e435-47. doi:10.1016/j.orcp.2014.01.002. Epub 2014 Mar 6. PubMed PMID: 25263833; PubMed Central PMCID: PMC4180039.

6: Miller AE, Wolinsky JS, Kappos L, Comi G, Freedman MS, Olsson TP, Bauer D, Benamor M, Truffinet P, O'Connor PW; TOPIC Study Group. Oral teriflunomide for patients with a first clinical episode suggestive of multiple sclerosis (TOPIC): a randomised, double-blind, placebo-controlled, phase 3 trial. *Lancet Neurol.* 2014 Oct;13(10):977-86. doi: 10.1016/S1474-4422(14)70191-7. Epub 2014 Sep 2. PubMed PMID: 25192851.

7: Westerlind H, Imrell K, Ramanujam R, Myhr KM, Celius EG, Harbo HF, Oturai AB, Hamsten A, Alfredsson L, Olsson T, Kockum I, Koski T, Hillert J. Identity-by-descent mapping in a Scandinavian multiple sclerosis cohort. *Eur J Hum Genet.* 2014 Aug 27. doi: 10.1038/ejhg.2014.155. [Epub ahead of print] PubMed PMID: 25159868.

8: Kotelnikova E, Bernardo-Faura M, Silberberg G, Kiani NA, Messinis D, Melas IN, Artigas L, Schwartz E, Mazo I, Masso M, Alexopoulos LG, Mas JM, Olsson T, Tegner J, Martin R, Zamora A, Paul F, Saez-Rodriguez J, Villoslada P. Signaling networks in MS: A systems-based approach to developing new pharmacological therapies. *Mult Scler.* 2014 Aug 11. pii: 1352458514543339. [Epub ahead of print] PubMed PMID: 25112814.

- 9: Arkema EV, Feltelius N, Olsson T, Askling J; ARTIS study group. No association between rheumatoid arthritis, amyotrophic lateral sclerosis, and tumour necrosis factor inhibitor treatment. *Ann Rheum Dis.* 2014 Nov;73(11):2061-2. doi: 10.1136/annrheumdis-2014-205622. Epub 2014 Aug 5. PubMed PMID: 25096786.
- 10: Roshanisefat H, Bahmanyar S, Hillert J, Olsson T, Montgomery S. Multiple sclerosis clinical course and cardiovascular disease risk - Swedish cohort study. *Eur J Neurol.* 2014 Nov;21(11):1353-e88. doi: 10.1111/ene.12518. Epub 2014 Jul 17. PubMed PMID: 25041631.
- 11: Gustavsen MW, Viken MK, Celius EG, Berge T, Mero IL, Berg-Hansen P, Aarseth JH, Myhr KM, Söndergaard HB, Sellebjerg F, Oturai AB, Hillert J, Alfredsson L, Olsson T, Kockum I, Lie BA, Harbo HF. Oligoclonal band phenotypes in MS differ in their HLA class II association, while specific KIR ligands at HLA class I show association to MS in general. *J Neuroimmunol.* 2014 Sep 15;274(1-2):174-9. doi: 10.1016/j.jneuroim.2014.06.024. Epub 2014 Jul 6. PubMed PMID: 25037176.
- 12: Laaksonen H, Guerreiro-Cacais AO, Adzemovic MZ, Parsa R, Zeitelhofer M, Jagodic M, Olsson T. The multiple sclerosis risk gene IL22RA2 contributes to a more severe murine autoimmune neuroinflammation. *Genes Immun.* 2014 Oct;15(7):457-65. doi: 10.1038/gene.2014.36. Epub 2014 Jul 10. PubMed PMID: 25008863.
- 13: Ueda P, Rafatnia F, Båårnhjelm M, Fröbom R, Korzunowicz G, Lönnerbro R, Hedström AK, Eyles D, Olsson T, Alfredsson L. Neonatal vitamin D status and risk of multiple sclerosis. *Ann Neurol.* 2014 Sep;76(3):338-46. doi: 10.1002/ana.24210. Epub 2014 Jul 10. PubMed PMID: 24985080.
- 14: Bäckdahl L, Ekman D, Jagodic M, Olsson T, Holmdahl R. Identification of candidate risk gene variations by whole-genome sequence analysis of four rat strains commonly used in inflammation research. *BMC Genomics.* 2014 May 21;15:391. doi: 10.1186/1471-2164-15-391. PubMed PMID: 24885425; PubMed Central PMCID: PMC4041999.
- 15: Matell H, Lycke J, Svenningsson A, Holmen C, Khademi M, Hillert J, Olsson T, Piehl F. Age-dependent effects on the treatment response of natalizumab in MS patients. *Mult Scler.* 2014 May 27. pii: 1352458514536085. [Epub ahead of print] PubMed PMID: 24866201.
- 16: Lundström W, Hermanrud C, Sjöstrand M, Brauner S, Wahren-Herlenius M, Olsson T, Karrenbauer V, Hillert J, Fogdell-Hahn A. Interferon beta treatment of multiple sclerosis increases serum interleukin-7. *Mult Scler.* 2014 Nov;20(13):1727-36. doi: 10.1177/1352458514532700. Epub 2014 May 12. PubMed PMID: 24821684.
- 17: Sundqvist E, Buck D, Warnke C, Albrecht E, Gieger C, Khademi M, Lima Bomfim I, Fogdell-Hahn A, Link J, Alfredsson L, Söndergaard HB, Hillert J; International Multiple Sclerosis Genetics Consortium, Oturai AB, Hemme B, Kockum I, Olsson T. JC polyomavirus infection is strongly controlled by human leucocyte antigen class II variants. *PLoS Pathog.* 2014 Apr 24;10(4):e1004084. doi: 10.1371/journal.ppat.1004084. eCollection 2014 Apr. PubMed PMID: 24763718; PubMed Central PMCID: PMC3999271.

18: Engdahl E, Gustafsson R, Ramanujam R, Sundqvist E, Olsson T, Hillert J, Alfredsson L, Kockum I, Fogdell-Hahn A. HLA-A*(02), gender and tobacco smoking, but not multiple sclerosis, affects the IgG antibody response against human herpesvirus 6. *Hum Immunol*. 2014 Jun;75(6):524-30. doi: 10.1016/j.humimm.2014.03.001. Epub 2014 Mar 22. PubMed PMID: 24662416.

19: Olsson T, Boster A, Fernandez O, Freedman MS, Pozzilli C, Bach D, Berkani O, Mueller MS, Sidorenko T, Radue EW, Melanson M. Oral ponesimod in relapsing-remitting multiple sclerosis: a randomised phase II trial. *J Neurol Neurosurg Psychiatry*. 2014 Nov;85(11):1198-208. doi: 10.1136/jnnp-2013-307282. Epub 2014 Mar 21. PubMed PMID: 24659797; PubMed Central PMCID: PMC4215282.

20: Briggs FB, Acuna B, Shen L, Ramsay P, Quach H, Bernstein A, Bellesis KH, Kockum IS, Hedström AK, Alfredsson L, Olsson T, Schaefer C, Barcellos LF. Smoking and risk of multiple sclerosis: evidence of modification by NAT1 variants. *Epidemiology*. 2014 Jul;25(4):605-14. doi: 10.1097/EDE.000000000000089. PubMed PMID: 24625537.

21: Tuncel J, Haag S, Yau AC, Norin U, Baud A, Lönnblom E, Maratou K, Ytterberg AJ, Ekman D, Thordardottir S, Johannesson M, Gillett A; EURATRANS Consortium, Stridh P, Jagodic M, Olsson T, Fernandez-Teruel A, Zubarev RA, Mott R, Aitman TJ, Flint J, Holmdahl R. Natural polymorphisms in Tap2 influence negative selection and CD4, β CD8 lineage commitment in the rat. *PLoS Genet*. 2014 Feb 20;10(2):e1004151. doi: 10.1371/journal.pgen.1004151. eCollection 2014 Feb. PubMed PMID: 24586191; PubMed Central PMCID: PMC3930506.

22: Gustafsson M, Edström M, Gawel D, Nestor CE, Wang H, Zhang H, Barrenes F, Tojo J, Kockum I, Olsson T, Serra-Musach J, Bonifaci N, Pujana MA, Ernerudh J, Benson M. Integrated genomic and prospective clinical studies show the importance of modular pleiotropy for disease susceptibility, diagnosis and treatment. *Genome Med*. 2014 Feb 26;6(2):17. doi: 10.1186/gm534. eCollection 2014. PubMed PMID: 24571673; PubMed Central PMCID: PMC4064311.

23: Hedström AK, Lima Bomfim I, Barcellos L, Gianfrancesco M, Schaefer C, Kockum I, Olsson T, Alfredsson L. Interaction between adolescent obesity and HLA risk genes in the etiology of multiple sclerosis. *Neurology*. 2014 Mar 11;82(10):865-72. doi: 10.1212/WNL.0000000000000203. Epub 2014 Feb 5. PubMed PMID: 24500647; PubMed Central PMCID: PMC3959752.

24: Lind A, Ramelius A, Olsson T, Arnheim-Dahlström L, Lamb F, Khademi M, Ambati A, Maeurer M, Nilsson AL, Bomfim IL, Fink K, Lernmark Ö. A/H1N1 antibodies and TRIB2 autoantibodies in narcolepsy patients diagnosed in conjunction with the Pandemrix vaccination campaign in Sweden 2009-2010. *J Autoimmun*. 2014 May;50:99-106. doi: 10.1016/j.jaut.2014.01.031. Epub 2014 Jan 29. PubMed PMID: 24485154.

25: Confavreux C, O'Connor P, Comi G, Freedman MS, Miller AE, Olsson TP, Wolinsky JS, Bagulho T, Delhay JL, Dukovic D, Truffinet P, Kappos L; TOWER Trial Group. Oral teriflunomide for patients with relapsing multiple sclerosis (TOWER): a randomised, double-blind, placebo-controlled, phase 3 trial. *Lancet Neurol*. 2014 Mar;13(3):247-56. doi: 10.1016/S1474-4422(13)70308-9. Epub 2014 Jan 23. PubMed PMID: 24461574.

26: Olsson T. The new era of multiple sclerosis therapy. *J Intern Med.* 2014 Apr;275(4):382-6. doi: 10.1111/joim.12196. Epub 2014 Mar 15. PubMed PMID: 24433367.

27: Gyllenberg A, Piehl F, Alfredsson L, Hillert J, Bomfim IL, Padyukov L, Orho-Melander M, Lindholm E, Landin-Olsson M, Lernmark Ö; Swedish Childhood Diabetes Study Group; Diabetes Incidence in Sweden Study Group, Olsson T, Kockum I. Variability in the CIITA gene interacts with HLA in multiple sclerosis. *Genes Immun.* 2014 Apr-May;15(3):162-7. doi: 10.1038/gene.2013.71. Epub 2014 Jan 16. PubMed PMID: 24430172.

28: Hedström AK, Hillert J, Olsson T, Alfredsson L. Alcohol as a modifiable lifestyle factor affecting multiple sclerosis risk. *JAMA Neurol.* 2014 Mar;71(3):300-5. doi: 10.1001/jamaneurol.2013.5858. PubMed PMID: 24395432.

29: Meisgen S, Oñstberg T, Salomonsson S, Ding B, Eliasson H, Mälarstig A, Alfredsson L, Klareskog L, Hamsten A, Olsson T, Axelsson T; Swedish Congenital Heart Block Study Group, Gadler F, Jonzon A, Sonesson SE, Kockum I, Wahren-Herlenius M. The HLA locus contains novel foetal susceptibility alleles for congenital heart block with significant paternal influence. *J Intern Med.* 2014 Jun;275(6):640-51. doi: 10.1111/joim.12179. Epub 2014 Jan 20. PubMed PMID: 24354957.

30: Bäärnhielm M, Olsson T, Alfredsson L. Fatty fish intake is associated with decreased occurrence of multiple sclerosis. *Mult Scler.* 2014 May;20(6):726-32. doi: 10.1177/1352458513509508. Epub 2013 Oct 24. PubMed PMID: 24158977.

31: Sundqvist E, Bergström T, Daialhosein H, Nyström M, Sundström P, Hillert J, Alfredsson L, Kockum I, Olsson T. Cytomegalovirus seropositivity is negatively associated with multiple sclerosis. *Mult Scler.* 2014 Feb;20(2):165-73. doi: 10.1177/1352458513494489. Epub 2013 Sep 2. PubMed PMID: 23999606.

32: Hedström AK, Ryner M, Fink K, Fogdell-Hahn A, Alfredsson L, Olsson T, Hillert J. Smoking and risk of treatment-induced neutralizing antibodies to interferon. *Mult Scler.* 2014 Apr;20(4):445-50. doi: 10.1177/1352458513498635. Epub 2013 Aug 7. PubMed PMID: 23924603.

33: Hedström AK, Hillert J, Olsson T, Alfredsson L. Reverse causality behind the association between reproductive history and MS. *Mult Scler.* 2014 Apr;20(4):406-11. doi: 10.1177/1352458513498126. Epub 2013 Jul 25. PubMed PMID: 23886823.