

**RIKARD HOLMDAHL PUBLICATIONS 2009****Peer reviewed articles**

1. Snir, O., M. Widhe, C. von Spee, J. Lindberg, L. Padyukov, K. Lundberg, A. Engström, P. J. Venables, J. Lundeberg, R. Holmdahl, L. Klareskog, and V. Malmström. 2009. Multiple antibody reactivities to citrullinated antigens in sera from patients with rheumatoid arthritis: association with HLA-DRB1 alleles. *Ann Rheum Dis* 68:736-743.
2. Lindvall, T., J. Karlsson, R. Holmdahl, and A. Andersson. 2009. Dissection of a locus on mouse chromosome 5 reveals arthritis promoting and inhibitory genes. *Arthritis Res Ther* 11:R10.
3. Johannesson, M., R. Lopez-Aumatell, P. Stridh, M. Diez, J. Tuncel, G. Blazquez, E. Martinez-Membrives, T. Canete, E. Vicens-Costa, D. Graham, R. R. Copley, P. Hernandez-Pliego, A. D. Beyeen, J. Ockinger, C. Fernandez-Santamaria, P. S. Gulko, M. Brenner, A. Tobena, M. Guitart-Masip, L. Gimenez-Llort, A. Dominiczak, R. Holmdahl, D. Gauguier, T. Olsson, R. Mott, W. Valdar, E. E. Redei, A. Fernandez-Teruel, and J. Flint. 2009. A resource for the simultaneous high-resolution mapping of multiple quantitative trait loci in rats: the NIH heterogeneous stock. *Genome Res* 19:150-158.
4. Hultqvist, M., K. S. Nandakumar, U. Bjorklund, and R. Holmdahl. 2009. The novel small molecule drug Rabeximod is effective in reducing disease severity of mouse models of autoimmune disorders. *Ann Rheum Dis* 68:130-135.
5. Gjertsson, I., K. L. Laurie, J. Devitt, S. J. Howe, A. J. Thrasher, R. Holmdahl, and K. Gustafsson. 2009. Tolerance Induction Using Lentiviral Gene Delivery Delays Onset and Severity of Collagen II Arthritis. *Mol Ther* 17:632-640
6. Blom, A. M., K. S. Nandakumar, and R. Holmdahl. 2009. C4b-binding protein (C4BP) inhibits development of experimental arthritis in mice. *Ann Rheum Dis* 68:136-142.
7. Rintisch C, Förster M, Holmdahl R. Detection of arthritis susceptibility loci *Pia1* and *Ncf1* and the major histocompatibility complex region in rats depends on the genetic background. *Arthritis Rheum* 2009; 60:419-427.
8. Uysal H, Bockermann R, Nandakumar KS, Sehnert B, Bajtner E, Engström Å, Serre G, Thunnisein M, Holmdahl R: Structure and pathogenicity of antibodies specific for citrullinated collagen type II in Experimental Arthritis. *J Exp Med* 2009; 206:449-462.
9. Richter, C., M. H. Juan, J. Will, R. P. Brandes, U. Kalinke, S. Akira, J. M. Pfeilschifter, M. Hultqvist, R. Holmdahl, and H. H. Radeke. 2009. *Ncf1* provides a reactive oxygen species-independent negative feedback regulation of TLR9-induced IL-12p70 in murine dendritic cells. *J Immunol* 182:4183-4191.
10. Huberle, A., A. D. Beyeen, J. Ockinger, M. Ayturan, M. Jagodic, K. L. de Graaf, N. Fissolo, M. Marta, P. Olofsson, M. Hultqvist, R. Holmdahl, T. Olsson, and R. Weissert. 2009. Advanced intercross line mapping suggests that *nfc1* (*ean6*) regulates severity in an animal model of guillain-barre syndrome. *J Immunol* 182:4432-4438.
11. Liljander, M., A. Andersson, R. Holmdahl, and R. Mattsson. 2009. Increased litter size and super-ovulation rate in congenic C57BL mice carrying a polymorphic fragment of NFR/N origin at the *Fecq4* locus of chromosome 9. *Genet Res* 91:259-265.

12. Kielland, A., T. Blom, K. S. Nandakumar, R. Holmdahl, R. Blomhoff, and H. Carlsen. 2009. In vivo imaging of reactive oxygen and nitrogen species in inflammation using the luminescent probe L-012. *Free Radic Biol Med* 47:760-766.
13. Hagenow, K., K. A. Gelderman, M. Hultqvist, P. Merky, J. Bäcklund, O. Frey, T. Kamradt, and R. Holmdahl. 2009. Ncf1-associated reduced oxidative burst promotes IL-33R+ T cell mediated adjuvant-free arthritis in mice. *J Immunol* 183:874-881.
14. Dzhambazov, B., I. Lindh, Å. Engström, and R. Holmdahl. 2009. Tissue transglutaminase enhances collagen type II-induced arthritis and modifies the immunodominant T-cell epitope CII260-270. *Eur J Immunol* 39:2412-2423.
15. Yu, X., L. Wester-Rosenlöf, U. Gimsa, S. A. Holzhueter, A. Marques, L. Jonas, K. Bauer, M. Kunz, H. Nizze, M. Tiedge, R. Holmdahl, and S. M. Ibrahim. 2009. The mtDNA nt7778 G/T polymorphism affects autoimmune diseases and reproductive performance in the mouse. *Hum Mol Genet.* 18:4689-4698.

### **Books, book chapters, reviews**

1. Hultqvist, M., L. M. Olsson, K. A. Gelderman, and R. Holmdahl. 2009. The protective role of ROS in autoimmune disease. *Trends Immunol.* 68:130-135.
2. Ahlqvist, E., M. Hultqvist, and R. Holmdahl. 2009. The value of animal models in predicting genetic susceptibility to complex diseases such as rheumatoid arthritis. *Arthritis Research & Therapy* 11:226.