

RIKARD HOLMDAHL PUBLICATIONS 2008**Peer reviewed articles**

1. Lagerquist, M. K., M. C. Erlandsson, U. Islander, L. Svensson, R. Holmdahl, and H. Carlsten. 2008. 17Beta-estradiol expands IgA-producing B cells in mice deficient for the mu chain. *Scand J Immunol* 67:12-17.
2. Uysal, H., B. Sehnert, K. S. Nandakumar, U. Böiers, H. Burkhardt, R. Holmdahl, and M. M. Thunnissen. 2008. The crystal structure of the pathogenic collagen type II specific mouse monoclonal antibody CIIC1 Fab: Structure to function analysis. *Mol Immunol* 45:2196-2204.
3. Imai, Y., Kuba, K., Neely, G. G., Yaghubian-Malhami, R., Perkmann, T., van Loo, G., Ermolaeva, M., Veldhuizen, R., Leung, Y. H., Wang, H., Liu, H., Sun, Y., Pasparakis, M., Kopf, M., Mech, C., Bavari, S., Peiris, J. S., Slutsky, A. S., Akira, S., Hultqvist, M., Holmdahl, R., Nicholls, J., Jiang, C., Binder, C. J. and Penninger, J. M., Identification of oxidative stress and Toll-like receptor 4 signaling as a key pathway of acute lung injury. *Cell* 2008. 133: 235-249.
4. Wang, H., D. Kess, A. K. Lindqvist, T. Peters, A. Sindrilaru, M. Wlaschek, R. Blakytyn, R. Holmdahl, and K. Scharffetter-Kochanek. 2008. A 9-centimorgan interval of chromosome 10 controls the T cell-dependent psoriasiform skin disease and arthritis in a murine psoriasis model. *J Immunol* 180:5520-5529.
5. Carlsén, S., K. S. Nandakumar, J. Bäcklund, J. Holmberg, M. Hultqvist, M. Vestberg, and R. Holmdahl. 2008. Cartilage oligomeric matrix protein induces chronic arthritis in mice. *Arthritis Rheum* 58:2000-2011.
6. Rintisch, C. and Holmdahl, R., 2008. DA rats from two colonies differ genetically and in their arthritis susceptibility. *Mamm Genome* 19:420-428.
7. Rintisch, C., Ameri, J., Olofsson, P., Luthman, H. and Holmdahl, R., Positional identification of the V lambda gene and its association with rheumatoid factor production and eosinophilic inflammation in rats. *Proc Natl Acad Sci U S A* 2008. 105:14005-10.
8. Liljander, M., Andersson, A., Holmdahl, R. and Mattsson, R., Increased susceptibility to collagen-induced arthritis in female mice carrying congenic Cia40/Pregq2 fragments. *Arthritis Res Ther* 2008. 10: R88.
9. Geng, H., S. Carlsen, K. S. Nandakumar, R. Holmdahl, A. Aspberg, A. Oldberg, and R. Mattsson. 2008. Cartilage oligomeric matrix protein deficiency promotes early onset and the chronic development of collagen-induced arthritis. *Arthritis Res Ther* 10:R134.
10. Popovic M, Ahlqvist E, Rockenbauer E, Bockermann R, Holmdahl R. Identification of new loci controlling collagen-induced arthritis in mouse using a partial advanced intercross and congenic strains. *Scand J Immunol* 2008;68(4):405-13.
11. Nandakumar KS, Holmdahl R. Role of anti-hinge antibodies in therapeutic cleavage of IgG: response to Drs. Lutz and Fumia. *Trends Immunol* 2008.
12. Böiers U, Lanig H, Sehnert B, Holmdahl R, Burkhardt H. 2008. Collagen type II is recognized by a pathogenic antibody through germline encoded structures. *Eur J Immunol* 38:2784-2795

13. Nandakumar KS, Bajtner E, Hill L, Bohm B, Rowley MJ, Burkhardt H, et al. Arthritogenic antibodies specific for a major type II collagen triple-helical epitope bind and destabilize cartilage independent of inflammation. *Arthritis Rheum* 2008;58:184-196.
14. Holmdahl M, Ahlfors SR, Holmdahl R, Hansson C. Structure-immune response relationships of hapten-modified collagen II peptides in a T-cell model of allergic contact dermatitis. *Chem Res Toxicol* 2008;21(8):1514-23.

Books, book chapters, reviews

1. Nandakumar, K. S., and R. Holmdahl. 2008. Therapeutic cleavage of IgG - new avenues for treating inflammation. *Trends Immunol* 29:173-178.
2. Holmdahl R. IL-21 and autoimmune disease - hypothesis and reality? 2008. *Eur J Immunol* 38(7):1800-2.
3. Aitman, T., J.K. Critser, E. Cuppen, A. Dominiczak, X.M. Fernandez, J. Flint, D. Gauguier, A.M. Geurts, M. Gould, P.C. Harris, R. Holmdahl, N. Hübner, Z. Izsvak, H. Jacob, T. Kuramoto, A.E. Kwitek, A. Marrone, T. Mashimo, C. Moreno-Quinn, M. J., L. Mullins, T. Olsson, L. Riley, K. Saar, T. Serikawa, J.D. Shull, C. Szpirer, S.N. Twigger, B. Voigt, and K. Worley. 2008. Progress and prospects in rat genetics: a community view. *Nat Genet* 40:516-522.
4. Rowley, M. J., Nandakumar, K. S. and Holmdahl, R., 2008. The role of collagen antibodies in mediating arthritis. *Mod Rheumatol* 18:429-441