

Publications relevant to Regulatory T cells

Peer-reviewed Publications:

- Nolting, J., Daniel, C., Reuter, S., Stuelten, C., Li, P., Sucov, H., Kim, B.G., Letterio, J.J., **Kretschmer, K.**, Kim, H.J., von Boehmer, H., Retinoic acid can enhance conversion of naive into regulatory T cells independently of secreted cytokines. **J Exp Med.** 2009. [Epub ahead of print] PubMed PMID: 19737861.
- Cao, Z., Wara, A.K., Icli, B., Sun, X., Packard, R.R., Esen, F., Stapleton, C.J., Subramaniam, M., **Kretschmer, K.**, Apostolou, I., von Boehmer, H., Hansson, G.K., Spelsberg, T.C., Libby, P., Feinberg, M.W., Kruppel-like factor KLF10 targets transforming growth factor-beta1 to regulate CD4⁺CD25⁻ T cells and T regulatory cells. **J Biol Chem.** 2009. 284(37):24914-24.
- Polansky, J.K.*, **Kretschmer, K.***, Freyer, J., Floess, S., Baron, U., Olek, S., Garbe, A., Hamann, A., von Boehmer, H., and Huehn, J., DNA methylation controls *foxp3* gene expression. **Eur. J. Immunol.** 2008.38(6):1654-63. *These authors contributed equally.
- Marson, A.*, **Kretschmer, K.***, Frampton G.M., Jacobsen, E.S., Polansky, J.K., MacIsaac, K.D., Levine, S.S., Fraenkel, E., von Boehmer, H., and Young, R.A. Foxp3 occupancy and regulation of key target genes during T-cell stimulation. **Nature.** 2007. 445(7130):931. *These authors contributed equally.
- **Kretschmer, K.**, Heng, T.S.P., and von Boehmer, H., *De novo* production of antigen-specific suppressor cells *in vivo*. **Nat. Protocols.** 2006. 1(2):653.
- **Kretschmer, K.**, Apostolou, I., Hawiger, D., Khazaie, K., Nussenzweig, M.C., and von Boehmer, H., Inducing and expanding regulatory T cells by foreign antigen. **Nat. Immunol.** 2005. 6: 1219-1227.

Reviews and Book Chapters:

- Apostolou, I., Verginis, P., **Kretschmer, K.**, Polansky, J.P., Huehn, J., and von Boehmer, H. Peripherally induced Treg: Mode, Stability and Role in Specific Tolerance. **J Clin Immunol.** 2008. 28(6):619-24.
- **Kretschmer, K.**, Apostolou, I., Verginis, P. and von Boehmer, H. Foxp3 and Regulatory T cells. In: Jiang, S., Editor. **Regulatory T cells and Clinical Application.** New York, New York, 2008, Springer (ISBN: 978-0-387-77908-9).
- **Kretschmer, K.**, Apostolou, I., Verginis, P., and von Boehmer, H., Regulatory T Cells and Antigen-Specific Tolerance. **Chem Immunol Allergy.** 2008. 94:8-15.
- **Kretschmer, K.**, Apostolou, I., Jaeckel, E., Khazaie, K., and von Boehmer H., Making regulatory T cells with defined antigen specificity: Role in autoimmunity and cancer. Review. **Immunol. Rev.** 2006. 212: 163-169.
- Apostolou, I., **Kretschmer, K.**, and von Boehmer, H., Peptide-based instruction of suppressor commitment in naïve T cells. In: Rose, N.R. and Mackay, I.R., editors. **The Autoimmune Diseases.** London, England, 2006, Elsevier, pp. 133-138.
- Jaeckel, E., **Kretschmer, K.**, Apostolou, I., and von Boehmer, H., Instruction of Treg commitment in peripheral T cells is suited to reverse autoimmunity. Review. **Semin. Immunol.** 2006. 18(2): 89-92.

Additional peer-reviewed Publications

- Induction of B cell development in adult mice reveals the ability of bone marrow to produce B-1a cells. Duber, S., Hafner, M., Krey, M., Lienenklaus, S., Roy, B., Hobeika, E., Reth, M., Buch, T., Waisman, A., **Kretschmer, K.***, and Weiss, S.*. *Blood*. 2009 Oct 7. [Epub ahead of print] PMID: 19812384. ***These authors contributed equally.**
- Dueber, S., Hafner, M., Krey, Hobeika, E., Reth, M., Waismann A., Weiss S*, and **Kretschmer K.***, Induction of B cell development in adult mice reveals the ability of bone marrow to produce B-1a cells. (*Blood*, in revision) ***These authors contributed equally.**
- Stoermann, B., **Kretschmer, K.**, Dueber, S., and Weiss, S., B-1a cells are imprinted by the microenvironment in spleen and peritoneum. **Eur. J. Immunol.** 2007. 37: 1613-1620.
- Borsutzky, S., **Kretschmer, K.**, Becker, P.D., Muhlradt, P.F., Kirschning, C.J., Weiss, S., and Guzmàn, C.A., The mucosal adjuvant macrophage-activating lipopeptide-2 directly stimulates B lymphocytes via the TLR-2 without the need of accessory cells. **J. Immunol.** 2005. 174: 6308-6313.
- **Kretschmer, K.**, Stopkowicz, J., Scheffer, S., Greten, T.F, and Weiss, S., Maintenance of peritoneal B-1a lymphocytes in the absence of the spleen. *J. Immunol.* 2004. 173: 197-204.
- **Kretschmer, K.**, Jungebloud, A., Stopkowicz, J., Kleinke, T., Hoffmann, R., and Weiss, S., The selection of marginal zone B cells differs from that of B-1a cells. **J. Immunol.** 2003. 171: 6495-6501.
- Dueber, S., Engel, H., Rolink, A., **Kretschmer, K.**, and Weiss, S., Germline transcripts of immunoglobulin light chain variable regions are structurally diverse and differentially expressed. **Mol. Immunol.** 2003. 40: 509-516.
- **Kretschmer, K.**, Jungebloud, A., Stopkowicz, J., Stoermann, B., Hoffmann, R., and Weiss, S., Antibody repertoire and gene expression profile: implications on different developmental and functional traits of splenic and peritoneal B-1a lymphocytes. **J. Immunol.** 2003. 171: 1192.
- Walter, U., Toepfer, T., Dittmar, K.E., **Kretschmer, K.**, Lauber, J., Weiss, S., Servos, G., Lechner, O., Scherbaum, W.A., Bornstein, S.R., von Boehmer, H., and Buer, J. Pancreatic NOD beta cells express MHC class II protein and the frequency of I-A(g7) mRNA-expressing beta cells strongly increases during progression to autoimmune diabetes. **Diabetologia.** 2003. 46: 1106-1114.
- **Kretschmer, K.**, Engel, H., and Weiss, S., Strong antigenic selection shaping the immunoglobulin heavy chain repertoire of B-1a lymphocytes in lambda 2³¹⁵ transgenic mice. **Eur. J. Immunol.** 2002. 32: 2317-2327.