

PUBLICATIONS

Type 1 diabetes in BioBreeding rats is critically linked to an imbalance between Th17 and regulatory T cells and an altered TCR repertoire. van den Brandt J, **Fischer HJ**, Walter L, Hünig T, Klötting I, Reichardt HM. J Immunol. 2010 Aug 15; 185(4):2285-94.

Glucocorticoids induce effector T cell depolarization via ERM proteins, thereby impeding migration and APC conjugation. Müller N*, **Fischer HJ***, Tischner D, van den Brandt J, Reichardt HM. J Immunol. 2013 Apr 15; 190(8):4360-70.

*authors share first authorship.

CD8+ T cell help is required for efficient induction of EAE in Lewis rats. Camara M, Beyersdorf N, **Fischer HJ**, Herold MJ, Ip CW, van den Brandt J, Toyka KV, Taurog JD, Hünig T, Herrmann T, Reichardt HM, Weishaupt A, Kerkau T. J Neuroimmunol. 2013 Jul 15; 260(1-2):17-27.

Chemokine-mediated redirection of T cells constitutes a critical mechanism of glucocorticoid therapy in autoimmune CNS responses. Schweingruber N*, **Fischer HJ***, Fischer L*, van den Brandt J, Karabinskaya A, Labi V, Villunger A, Kretzschmar B, Huppke P, Simons M, Tuckermann JP, Flügel A, Lühder F, Reichardt HM. Acta Neuropathol. 2014 May; 127(5):713-29.

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Erythropoietin responsive cardiomyogenic cells contribute to heart repair post myocardial infarction. Zafiriou MP, Noack C, Unsöld B, Didie M, Pavlova E, **Fischer HJ**, Reichardt HM, Bergmann MW, El-Armouche A, Zimmermann WH, Zelarayan LC. Stem Cells. 2014 Sep; 32(9):2480-91.

Inducible Knock-Down of the Mineralocorticoid Receptor in Mice Disturbs Regulation of the Renin-Angiotensin-Aldosterone System and Attenuates Heart Failure Induced by Pressure Overload. Montes-Cobos E, Li X, **Fischer HJ**, Sasse A, Kügler S, Didié M, Toischer K, Fassnacht M, Dressel R, Reichardt HM. PLoS One. 2015 Nov 25; 10(11):e0143954.

Modulation of CNS autoimmune responses by CD8(+) T cells coincides with their oligoclonal expansion. **Fischer HJ**, van den Brandt J, Lingner T, Odoardi F, Flügel A, Weishaupt A, Reichardt HM. J Neuroimmunol. 2016 Jan 15; 290:26-32.

Distinct roles of T-cell lymphopenia and the microbial flora for gastrointestinal and CNS autoimmunity. **Fischer HJ**, Witte AK, Walter L, Gröne HJ, van den Brandt J, Reichardt HM. FASEB J. 2016 May; 30(5):1724-32.

Targeted delivery of glucocorticoids to macrophages in a mouse model of multiple sclerosis using inorganic-organic hybrid nanoparticles. Montes-Cobos E, Ring S, **Fischer HJ**, Heck J, Strauß J, Schwaninger M, Reichardt SD, Feldmann C, Lühder F, Reichardt HM. J Control Release. 2017 Jan 10; 245:157-169.

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The Insulin Receptor Plays a Critical Role in T Cell Function and Adaptive Immunity. **Fischer HJ**, Sie C, Schumann E, Witte AK, Dressel R, van den Brandt J, Reichardt HM. *J Immunol*. 2017 Mar 1; 198(5):1910-1920.

Deletion of the mineralocorticoid receptor in myeloid cells leads to reduced CNS autoimmunity. Montes-Cobos E, Schweingruber N, Li X, **Fischer HJ**, Reichardt HM*, Fred Lühder2*, *Front Immunol*. 2017 Oct 13; 8:1319.

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The glucocorticoid receptor in recipient cells keeps cytokine secretion in acute graft-versus-host disease at bay. Baake T, Jörß K, Theiss-Suennemann J, Roßmann L, Bohnenberger H, Tuckermann JP, Reichardt HM*, **Fischer HJ***, and Reichardt SD*; *Oncotarget*. 2018 Mar 2; 9(21):15437-15450.

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β -synuclein reactive T cells induce autoimmune CNS grey matter degeneration. Lodygin D*, Hermann M*, Schweingruber N, Flügel-Koch C, Watanabe T, Schlosser C, Merlini A, Körner H, Chang H-F, **Fischer HJ**, Reichardt HM, Zagrebelsky-Holz M, Mollenhauer B, Frahm J, Kügler S, Fitzner D, Haberl M, Odoardi F* and Flügel A*, *Nature*, accepted for publication. *authors share first/senior authorship

Reviews:

The potential role of T cell migration and chemotaxis as targets of glucocorticoids in multiple sclerosis and experimental autoimmune encephalomyelitis. **Fischer HJ**, Schweingruber N, Lühder F, Reichardt HM.; *Mol Cell Endocrinol*. 2013 Nov 5; 380(1-2):99-107.

Generation of Transgenic Rats Using Lentiviral Vectors. Reichardt HM, **Fischer HJ**.; *Methods Mol Biol*. 2016; 1304:25-37.