

Priv.-Doz. Dr.med. Michael Stephan

Originalarbeiten

Schmitz C., Born M., Dafotakis M., Frye C. A., Heinsen H., Mugrauer K., Niesel A., Popken G., Rhodes M. E., Schuster D., **Stephan M.**, van de Berg W. D. J., Vehoff J., Hörsten S. v., Korr H. Use of cryostat sections from snap-frozen nervous tissue for combining stereological estimates with histological, cellular, or molecular analyses on adjacent sections, *J Chem Neuroanat* 2000; 20:21-29.

Stephan M., Straub R.H., Breivik T., Pabst R., Hörsten S.v. Postnatal maternal deprivation aggravates experimental autoimmune encephalomyelitis (EAE) in adult Lewis rats: reversal by chronic imipramine treatment. *Int J Dev Neurosci* 2002; 20:125-132.

Breivik T., **Stephan M.**, Brabant G. E., Straub R. H., Pabst R., Hörsten S.v. Postnatal lipopolysaccharide-induced illness predisposes to periodontal disease in adulthood. *Brain Behav Immun* 2002; 421-38.

Stephan M., Helfritz F., Pabst R., Hörsten S.v. Postnatally induced differences in adult pain sensitivity depends on genetics, gender and specific experiences: Reversal of maternal deprivation effects by additional postnatal tactile stimulation or chronic imipramine treatment. *Behav Brain Res* 2002; 133:149-58.

Stephan M., Jaeger B., Lamprecht F., Kapp A., Werfel T., Schmid-Ott G. Alterations of stress-induced expression of membrane molecules and intracellular cytokine levels in patients with atopic dermatitis depend on serum-IgE levels. *J Allergy Clin Immunol* 2004; 114:977-8 (letter to the editor).

Glaab T., Hecker H., **Stephan M.**, Baelder R., Braun A., Korolewicz R., Krug N., Hoymann HG. Comparison of noninvasive measures of cholinergic and allergic airway responsiveness in rats. *Acta Physiologica Scandinavia* 2006; 186:301-08.

Kruschinski C., **Stephan M.**, Hörsten S.v. Die verbesserte Akzeptanz der Einleitung im Kursus der makroskopischen Anatomie durch Kurzvorträge mit elektronischen Medien. *GMS Z Med Ausbild* 2006; 23(4):Doc69 (20061115).

Nguyen H.P., Kobbe P., Rahne H.M., Jäger B., **Stephan M.**, Pabst R., Holzmann C., Petrasch-Parwez E., Wetzel R., Osmand A., Hörsten S.v. Behavioral abnormalities precede polyglutamine recruitment sites and aggregates in rats transgenic for Huntington's Disease. *Hum Mol Genet* 2006; 15:3177-3194.

Lührmann A., Grote K., **Stephan M.**, Tschernig T., Pabst R. Local pulmonary immune stimulation by MALP-2 via Toll-like receptor 2 and 6 in rat lungs depends on age. *Immunol Letters* 2007; 108:167-173.

Skipuletz T., Schmiedl A., Schade J., Bedoui S., Glaab T., Pabst R., Hörsten S.v., **Stephan M.** Dose dependent recruitment of CD4+CD25+CD26+ T cells to the lungs in a novel model of asthma using F344 rats. *Am J Physiol Lung Cell Mol Physiol* 2007; 292:L1564-L1571.

Schade J., **Stephan M.**, Schmiedl A., Wagner L., Niestroj A.J., Demuth H.U., Frerker N., Klemann C., Raber K.A., Pabst R., von Hörsten S. Regulation of Expression and Function of Dipeptidyl Peptidase 4 (DP4), DP8/9, and DP10 in Allergic Responses of the Lung in Rats. *J Histochem Cytochem* 2008; 56:147-155.

Kruschinski C., Skipuletz T., Bedoui S., Raber K.A., Straub R.H., Hoffmann T., Grote K., Jacobs R., **Stephan M.**, Pabst R., von Hörsten S. Postnatal life events affect the severity of asthmatic airway inflammation in the adult rat. *J Immunol* 2008; 180:3919-25.

- Forssmann U., Stoetzer C., **Stephan M.**, Kruschinski C., Skripuletz T., Schade J., Schmiedl A., Pabst R., Wagner L., Hoffmann T., Kehlen A., Escher S.E., Forssmann W.G., Elsner J., von Hörsten S. Inhibition of CD26/dipeptidyl peptidase 4 enhances CCL11/eotaxin-mediated recruitment of eosinophils in vivo. *J Immunol* 2008; 181:1120-7.
- Bode F.J.*, **Stephan M.***, Suhling H., Pabst R., Straub R.H., Raber K.A., Bonin M., Nguyen H.P., Riess O., Bauer A., Sjöber C., Petersén Å, von Hörsten S. Sex differences in a transgenic rat model of Huntington's disease: decreased 17 β -estradiol levels correlate with reduced numbers of DARPP32+ neurons in males. *Hum Mol Genet* 2008; 17:2595-609.
- Klemann C., Schade J., Pabst R., Leitner S., Stiller J., von Hörsten S., **Stephan M.** CD26 (DPP4)-deficiency alters thymic emigration patterns and leukocyte subsets in F344-rats age-dependently. *Clin Exp Immunol* 2009; 155:357-65.
- Frerker, N., Raber, K., Bode, F., Skripuletz, T., Nave, H., Klemann, C., Pabst, R., **Stephan, M.**, Schade, J., Brabant, G., Wedekind, D., Jacobs, R., Jörns, A., Forssmann, U., Straub, R. H., Johannes, S., Hoffmann, T., Wagner, L., Demuth, H.-U. and Hörsten, S.v.. Phenotyping of congenic dipeptidyl peptidase 4 (DP4) deficient Dark Agouti (DA) rats suggests involvement of DP4 in neuro-, endocrine, and immune functions. *Clin Chem Lab Med* 2009; 47(3):275–287
- Schmid-Ott G., Jaeger B., Boehm T., Langer K., **Stephan M.**, Raap U., Werfel T. Immunological effects of stress in psoriasis. *Brit J Dermatol* 2008; *Br J Dermatol* 2009; 160(4):782-5.
- Schefzyk M., Bruder M., Schmiedl A., **Stephan M.**, Braun A., Kapp A., Wedi B., Raap U. Eosinophil granulocytes: functional differences of a new isolation kit compared to the isolation with anti-CD16-conjugated MicroBeads. *Exp Dermatol* 2009; 18(7):653-5.
- Schade J., Schmiedl A., Kehlen A., Veres T., **Stephan M.**, Pabst R., von Hörsten S. Airway-specific recruitment of T cells is reduced in a CD26-deficient F344 rat substrain. *Clin Exp Immunol* 2009; 158(1):133-42.
- Bode F.J., **Stephan M.**, Wiehager S., von Hörsten S., Bauer A., Petersen A. Circadian changes in a Huntington's disease rat correlate with a reduction of hypothalamic alpha2-receptors. *Behav Brain Res.* 2009; 205(1):175-82.
- Buchenauer T., Behrendt P., Bode F.J., Horn R., Brabant G., **Stephan M.**, Nave H. Diet-induced obesity alters behavior as well as serum levels of corticosterone in F344 rats. *Physiol Behav* 2009; 98(5):563-9.
- Schade J., Schmiedl A., **Stephan M.**, Pabst R., von Hörsten S. Transferred T cells preferentially adhere in the BALT of CD26-deficient recipient lungs during asthma. *Immunobiol* 2010; 215(4):321-31.
- Kandasamy M., Couillard-Despres S., Raber K.A., **Stephan M.**, Winner B., Kohl Z., Rivera F.J., Riess O., Bogdahn U., Winkler J., von Hörsten S., Aigner L. Stem cell quiescence in the hippocampal neurogenic niche is associated with elevated TGF-beta signaling in an animal model of Huntington's disease *J Neuropathol Exp Neurol.* 2010; 69(7):717-28.
- Skripuletz T., Kruschinski C., Pabst R., von Hörsten S., **Stephan M.** Postnatal experiences influence the behavior in adult male and female Fischer and Lewis rats. *Int J Dev Neurosci.* 2010; 28(7):561-71.
- Behrendt P, Buchenauer T, Horn R, Brabant G, Jacobs R, Bode F, **Stephan M**, Nave H. Diet-induced obesity, exogenous leptin-, and MADB106 tumor cell challenge affect tissue leukocyte distribution and serum levels of cytokines in F344 rats. *Endocrine.* 2010; 38(1):104-12.
- Nguyen H.P., Björkvist M., Bode F.J., **Stephan M.**, von Hörsten S. Serum levels of a subset of cytokines show high interindividual variability and are not altered in rats transgenic for Huntington's disease. <<http://www.ncbi.nlm.nih.gov/pubmed/20981129>> *PLoS Curr.* 2010;2:RRN1190.
- Schmiedl A., Krainski J., Schwichtenhöfel F., Schade J., Raber K.A., Zscheppang Z., Beekmann T., Acevedo C., Wedekind D., Pabst R., von Hörsten S, **Stephan M.** Reduced inflammation in CD26/DPP4-deficient F344 rats after OVA-challenge is associated with altered expression of pulmonary surfactant proteins *Clin Exp Allergy.* 2010; 40(12):1794-808.

Stephan M., Radicke A., Leutloff S., Schmiedl A., Pabst R., von Hörsten S., Dettmer S., Lotz J., Nave H. "Dipeptidyl peptidase IV (DPP4)-deficiency attenuates diet-induced obesity in rats: possible implications for the hypothalamic neuropeptidergic system", *Behav Brain Res.* 2011; 216(2):712-8.

Tasic T., Bäumer W. Schmiedl A., Schwichtenhövel F., Pabst R., Raap U., von Hörsten S., **Stephan M.** Dipeptidyl Peptidase IV (DPP4)-deficiency increases Th1-driven allergic contact dermatitis. *Clin Exp Allergy* 2011; 41:1098-107.

Jasper S., **Stephan M.**, Al-Khalaf H, Rennekampff HO, Vogt PM, Mirastschijski U. Too little appreciation for great expenditure? Workload and resources in ICUs. *Int Arch Occup Environ Health.* 2012; 10:753-61

Karst M., Jasper S., **Stephan M.** Diagnostik und Therapie chronischer Schmerzsyndrome. *Psychother Psych Med* 2012; 62: 320-330.

Stephan M., Suhling H., Schade J., Wittlake M., Tasic T., Klemann C., Pabst R., Jurawitz M.C., Raber K.A., Hoymann H.G., Braun A., Glaab T., Hoffmann T., Schiedl. A., von Hörsten S. Effects of dipeptidyl-peptidase 4 inhibition in an animal model of experimental asthma: a matter of dose, route and time. *Physiol Rep.* 2013; 1(5):e00095. doi: 10.1002/phy2.95

Hupa K.L., Schmiedl A., Pabst R., von Hörsten S., **Stephan M.** Maternal deprivation decelerates postnatal morphological lung development of F344 rats. *The anatomical record* 2014; 297:317-26

Tasic T., **Stephan M.**, von Hörsten S., Pabst R., Schmiedl A. Differential OVA-induced pulmonary inflammation and unspecific reaction in Dark Agouti (DA) rats contingent on CD26/DPP4 deficiency. *Immunobiology*; doi: 10.16/j.imbio.2014.07.007

Fischer M.J., **Stephan M.**, Kielstein H., Rahne H., Nugraha B., Gutenbrunner C., Ro J.Y., Svensson P. Functions of the temporomandibular system in extracranial chronic pain conditions: modulatory effects on nocifensive behavior in an animal model. *J Manipulative Physiol Ther* 2014; 37: 485-93

Kandasamy M., Roskopf M., Wagner K., Klein B., Couillard-Despres S., Reitsamer H.A., **Stephan M.**, Nguyen H.P., Riess O, Bogdahn U., Winkler J., von Hörsten S., Aigner L. Reduction in subventricular zone-derived olfactory bulb neurogenesis in a rat model of Huntington's disease is accompanied by reactive neuroblastosis in the striatum. *PLOS ONE* 2015; 10(2):e0116069

Abeling B., Müller A., **Stephan M.**, Pollmann I., de Zwaan M. Negative Effekte von Psychotherapie: Häufigkeit und Korrelate in einer klinischen Stichprobe. *Psychother Psychosom Med Psychol.* 2017; doi: 10.1055/s-0043-117604

Siebzehrubl F., Raber K., Urbach Y., Schulze-Krebs A., Canneva F., Moceri S., Habermeyer J., Achoui D., Gupta B., Steindler D., **Stephan M.**, Nguyen H.P., Bonin M., Riess O., Bauer A., Aigner L., Couillard-Despres S., Paucar M., Svenningsson P., Osmand A., Andrew A., Zabel C., Weiss A., Kuhn R., Moussaoui S., Blockx I., Van der Linden A., Cheong R., Roybon L., Petersén A., von Hörsten S.. Early postnatal behavioral, cellular and molecular changes in models of Huntington disease are reversible by HDAC inhibition. *Proc Natl Acad Sci* 2018;115(37):E8765-E8774

Wagener I., Jungen M., von Hörsten S., **Stephan M.**, Schmiedl A. Postnatal morphological lung development of wild type and CD26/DPP4 deficient rat pups in dependency of LPS exposure. *Ann Anat* 2019; doi: 10.1016/j.aanat.2019.151423

Zientara A., **Stephan M.**, von Hörsten S., Schmiedl A. Differential severity of LPS-induced lung injury in CD26/DPP4 positive and deficient F344 rats. *Histol Histopathol.* 2019;34(10):1151-1171.

* both authors contributed equally as first authors

Übersichtsarbeiten

Schmid-Ott G., **Stephan M.**, Werfel T. Rosacea (Education in Psychodermatology). *Dermatol Psychosom* 2003; 4:44-45.

Schmid-Ott, G. **Stephan M.** Werfel T. Psoriasis (Education in Psychodermatology). *Dermatol Psychosom* 2003; 4:169-71.

Karst M, Jasper S, Bernateck M, **Stephan M.** Clinical diagnostics and therapy of chronic pain syndromes. *Psychother Psychosom Med Psychol.* 2012 Aug;62(8):320-30.

Stephan M., Karst M., Bernateck M. Medikamentöse Behandlungsstrategien bei chronischen Schmerzen: Schwerpunkt antihyperalgetisch wirksame Substanzen. *Psych up2date* 2014; 8:37-48

Wagner L., Klemann C., **Stephan M.**, von Hörsten S. Unravelling the immunological roles of DPP4 activity and/or structure homolog (DASH) proteins. *Clin Exp Immunol* 2015; doi 10.1111./cei 12757

Klemann C., Wagner L., **Stephan M.**, von Hörsten S. Cut the chase: a review of CD26/DPP4's entanglement in the immune system. *Clin Exp Immunol* 2016; doi 10.1111./cei 12781

Stephan M. EMDR in der Psychotherapie: Einsatzmöglichkeiten, Wirksamkeit und Begrenzungen. *Psych up2date* 2016; 10:327-334

Gille G., Oppelt P.G., **Stephan M.** Weil Dünn-Sein Frei-Sein heißt. *Der Gynäkologe* 2017; 50:151-163

Buchbeiträge/Bücher

Stephan M., Skripuletz T., Hörsten S.v. Early postnatal nongenetic factors modulate disease susceptibility in adulthood: examples from disease models of multiple sclerosis, periodontitis, and asthma. In: *Neural and neuroendocrine mechanisms in host defense and autoimmunity*, 2006 Springer Science + Business Media, LLC: 241-254.

Gündel H., **Stephan M.** Neurobiologie von Trauma, Traumagedächtnis und Traumafolgen. In *Traumatisierte Kinder und Jugendliche in Deutschland*, Fegert, Ziegenhain, Goldbeck (Hrsg) Juventa Verlag GmbH.