

Martin Gericke MD

List of Publications

1. Kunath A, **Gericke M**, Kern M, Dommel S, Hesselbarth N, Kovacs P, Stumvoll M, Blüher M, Klötting N. Repin1 deficiency improves insulin sensitivity and glucose metabolism in db/db mice by reducing adipose tissue mass and inflammation. *Biochem Biophys Res Commun*. 2016; 478(1):398-402.
2. Stelzner K, Herbert D, Lorz A, Popkova Y, Schiller J, **Gericke M**, Blüher M, Simon JC, Saalbach A. Free fatty acids sensitize human monocyte derived dendritic cells for activation and favor a Th1/Th17 immune response. *Eur J Immunol*. 2016; 46(8):2043-2053.
3. Orthgiess J, **Gericke M***, Immig I, Schulz A, Hirrlinger J, Bechmann I, Eilers J. Neurons exhibit lyz2 promoter activity in vivo: implications for using LysM-Cre mouse in myeloid cell research. *Eur J Immunol*. 2016; 46(6):1529-1532.
**equally contributed*
4. Klötting N, Hesselbarth N, **Gericke M**, Kunath A, Biemann R, Chakaroun R, Kosacka J, Kovacs P, Kern M, Stumvoll M, Fischer B, Rolle-Kampczyk U, Feltens R, Otto W, Wissenbach DK, von Bergen M, Blüher M. Di-(2-Ethylhexyl)-Phthalate (DEHP) Causes Impaired Adipocyte Function and Alters Serum Metabolites. *PLoS One*. 2015; 10:e0143190.
5. Haim Y, Blüher M, Slutsky N, Goldstein N, Klötting N, Harman-Boehm I, Kirshtein B, Ginsberg D, **Gericke M**, Guiu Jurado E, Kovsan J, Tarnovscki T, Kachko L, Bashan N, Gepner Y, Shai I, Rudich A. Elevated autophagy gene expression in adipose tissue of obese humans: A potential non-cell-cycle-dependent function of E2F1. *Autophagy*. 2015; 11(11):2074-2088
6. Hesselbarth N, Pettinelli C, **Gericke M**, Berger C, Kunath A, Stumvoll M, Blüher M, Klötting N. Tamoxifen affects glucose and lipid metabolism parameters, causes browning of subcutaneous adipose tissue and transient body composition changes in C57BL/6NTac mice. *Biochem Biophys Res Commun*. 2015; 464(3):724-729.
7. du Plessis J, van Pelt J, Korf H, Mathieu C, van der Schueren B, Lannoo M, Oyen T, Topal B, Fetter G, Nayler S, van der Merwe T, Windmolders P, Van Gaal L, Verrijken A, Hubens G, **Gericke M**, Cassiman D, Francque S, Nevens F, van der Merwe S. Association of Adipose Tissue Inflammation With Histologic Severity of Nonalcoholic Fatty Liver Disease. *Gastroenterology*. 2015; 149(3):635-648.
8. **Gericke M**, Weyer U, Braune J, Bechmann I, Eilers J. A method for long-term live imaging of tissue macrophages in adipose tissue explants. *Am J Physiol Endocrinol Metab*. 2015; 308(11):E1023-1033.
9. Kosacka J, Kern M, Klötting N, Paeschke S, Rudich A, Haim Y, **Gericke M**, Serke H, Stumvoll M, Bechmann I, Nowicki M, Blüher M. Autophagy in adipose tissue of patients with obesity and type 2 diabetes. *Mol Cell Endocrinol*. 2015; 409:21-32.
10. Stenkamp-Strahm CM, Nyavor YE, Kappmeyer AJ, Horton S, **Gericke M**, Balemba OB. Prolonged high fat diet ingestion, obesity, and type 2 diabetes symptoms correlate with phenotypic plasticity in myenteric neurons and nerve damage in the mouse duodenum. *Cell Tissue Res*. 2015; 361(2):411-426.

11. Immig K, **Gericke M**, Menzel F, Merz F, Krueger M, Schiefenhövel F, Lösche A, Jäger K, Hanisch UK, Biber K, Bechmann I. CD11c-positive cells from brain, spleen, lung, and liver exhibit site-specific immune phenotypes and plastically adapt to new environments. *Glia*. 2015; 63(4):611-625.
12. Berry R, Church CD, **Gericke M**, Jeffery E, Colman L, Rodeheffer MS. Imaging of adipose tissue. *Methods Enzymol*. 2014; 537:47-73.
13. Haase J, Weyer U, Immig K, Klötting N, Blüher M, Eilers J, Bechmann I, **Gericke M**. Local proliferation of macrophages in adipose tissue during obesity-induced inflammation. *Diabetologia*. 2014; 57(3):562-571.
14. Stenkamp-Strahm CM, Kappmeyer AJ, Schmalz JT, **Gericke M**, Balemba O. High-fat diet ingestion correlates with neuropathy in the duodenum myenteric plexus of obese mice with symptoms of type 2 diabetes. *Cell Tissue Res*. 2013; 354(2):381-394.
15. Stenkamp-Strahm C, Patterson S, Boren J, Gericke M, Balemba O. High-fat diet and age-dependent effects on enteric glial cell populations of mouse small intestine. *Auton Neurosci*. 2013; 177(2):199-210.
16. Kosacka J, Koch K, **Gericke M**, Nowicki M, Heiker JT, Klötting I, Stumvoll M, Blüher M, Klötting N. The polygenetically inherited metabolic syndrome of male WOKW rats is associated with enhanced autophagy in adipose tissue. *Diabetol Metab Syndr*. 2013; 13:5:23.
17. Yi CX, **Gericke M**, Krüger M, Alkemade A, Kabra DG, Hanske S, Filosa J, Pfluger P, Bingham N, Woods SC, Herman J, Kalsbeek A, Baumann M, Lang R, Stern JE, Bechmann I, Tschöp MH. High calorie diet triggers hypothalamic angiopathy. *Mol Metab*. 2012; 1(1-2):95-100.
18. **Gericke M**, Schröder T, Kosacka J, Nowicki M, Klötting N, Spänel-Borowski K. Neuropeptide Y impairs insulin-stimulated translocation of glucose transporter 4 in 3T3-L1 adipocytes through the Y1 receptor. *Mol Cell Endocrinol*. 2012; 348(1):27-32.
19. Kosacka J, Schröder T, Bechmann I, Klötting N, Nowicki M, Mittag A, **Gericke M**, Spänel-Borowski K, Blüher M. PACAP up-regulates the expression of apolipoprotein D in 3T3-L1 adipocytes. DRG/3T3-L1 co-cultures study. *Neurosci Res*. 2011; 69(1):8-16.
20. **Gericke M**, Kosacka J, Koch D, Nowicki M, Schröder T, Ricken AM, Nieber K, Spänel-Borowski K. Receptors for NPY and PACAP differ in expression and activity during adipogenesis in the murine 3T3-L1 fibroblast cell line. *Br J Pharmacol*. 2009; 157(4):620-632.
21. Kosacka J, **Gericke M**, Nowicki M, Kacza J, Borlak J, Spänel-Borowski K. Apolipoproteins D and E3 exert neurotrophic and synaptogenic effects in dorsal root ganglion cell cultures. *Neuroscience*. 2009; 162(2):282-291.