

## Christian Sina

M.D. Professor of Nutritional Medicine

Dr. Sina is a medical doctor and specialist in Internal Medicine and Gastroenterology. He is Fresenius Kabi Professor of Nutritional Medicine, founding director of the Institute of Nutritional Medicine and has more than 15 years experience in biomedical research with scientific focus on gastroenterological diseases especially IBD and IBS. He serves as a consultant for gastroenterology and clinical nutrition at the 1st Medical Department and the Comprehensive Center for Inflammation Medicine (CCIM) at the University Hospital Schleswig-Holstein, Campus Lübeck. Dr. Sina is co-founder of Perfood GmbH, past-president of the German IBD working group (DACED) and currently chairman of the German Society of Mucosal Immunology & Microbiome (DGMIM).

## Contact

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## List of Publications (since 2018)

1. Damgaard, M. T. F., Paerregaard, S. I., Sogaard, I., Agerholm, M., Paulson, J. N., Treebak, J. T., Sina, C., Holm, J. B., Kristiansen, K., and Jensen, B. A. H. (2018) Age-dependent alterations of glucose clearance and homeostasis are temporally separated and modulated by dietary fat. *J Nutr Biochem* **54**, 66-76
2. Hirose, M., Schilf, P., Rohde, S., Gupta, Y., Sancerni, T., Alves-Guerra, M. C., Sina, C., Jaster, R., Miroux, B., and Ibrahim, S. M. (2018) The mitochondrial uncoupling protein 2 gene is causal for the spontaneous polycystic liver diseases in mice. *Mitochondrion* **42**, 50-53
3. Moreno-Fernandez, M. E., Giles, D. A., Stankiewicz, T. E., Sheridan, R., Karns, R., Cappelletti, M., Lampe, K., Mukherjee, R., Sina, C., Sallese, A., Bridges, J. P., Hogan, S. P., Aronow, B. J., Hoebe, K., and Divanovic, S. (2018) Peroxisomal beta-oxidation regulates whole body metabolism, inflammatory vigor, and pathogenesis of nonalcoholic fatty liver disease. *JCI Insight* **3**
4. Schroder, T., Kistenmacher, A., Smollich, M., and Sina, C. (2018) [Causes, Diagnostic and Therapeutical Procedures of Malassimilation]. *Dtsch Med Wochenschr* **143**, 704-712
5. Sina, C., Kemper, C., and Derer, S. (2018) The intestinal complement system in inflammatory bowel disease: Shaping intestinal barrier function. *Semin Immunol* **37**, 66-73
6. Staats, S., Rimbach, G., Kuenstner, A., Graspentner, S., Rupp, J., Busch, H., Sina, C., Ipharraguerre, I. R., and Wagner, A. E. (2018) Lithocholic Acid Improves the Survival of *Drosophila Melanogaster*. *Mol Nutr Food Res* **62**, e1800424
7. Banhos Danneskiold-Samsoe, N., Sonne, S. B., Larsen, J. M., Hansen, A. N., Fjaere, E., Isidor, M. S., Petersen, S., Henningsen, J., Severi, I., Sartini, L., Schober, Y., Wolf, J., Nockher, W. A., Wolfrum, C., Cinti, S., Sina, C., Hansen, J. B., Madsen, L., Brix, S., and Kristiansen, K. (2019) Overexpression of cyclooxygenase-2 in adipocytes reduces fat accumulation in inguinal white adipose tissue and hepatic steatosis in high-fat fed mice. *Sci Rep* **9**, 8979

8. Foh, B., Schroder, T., Oster, H., Derer, S., and Sina, C. (2019) Seasonal Clock Changes Are Underappreciated Health Risks-Also in IBD? *Front Med (Lausanne)* **6**, 103
9. Hirose, M., Schilf, P., Zarse, K., Busch, H., Fuellen, G., Johren, O., Kohling, R., Konig, I. R., Richer, B., Rupp, J., Schwaninger, M., Seeger, K., Sina, C., Ristow, M., and Ibrahim, S. M. (2019) Maternally Inherited Differences within Mitochondrial Complex I Control Murine Healthspan. *Genes (Basel)* **10**
10. Preisker, S., Brethack, A. K., Bokemeyer, A., Bettenworth, D., Sina, C., and Derer, S. (2019) Crohn's Disease Patients in Remission Display an Enhanced Intestinal IgM(+) B Cell Count in Concert with a Strong Activation of the Intestinal Complement System. *Cells* **8**
11. Schroder, T., Wiese, A. V., Ender, F., Quell, K. M., Vollbrandt, T., Duhn, J., Sunderhauf, A., Kunstner, A., Moreno-Fernandez, M. E., Derer, S., Aherrahrou, Z., Lewkowich, I., Divanovic, S., Sina, C., Kohl, J., and Laumonier, Y. (2019) Short-term high-fat diet feeding protects from the development of experimental allergic asthma in mice. *Clin Exp Allergy* **49**, 1245-1257
12. Staats, S., Wagner, A. E., Luersen, K., Kunstner, A., Meyer, T., Kahns, A. K., Derer, S., Graspeuntner, S., Rupp, J., Busch, H., Sina, C., Ipharraguerre, I. R., and Rimbach, G. (2019) Dietary ursolic acid improves health span and life span in male *Drosophila melanogaster*. *Biofactors* **45**, 169-186
13. Vorobyev, A., Gupta, Y., Sezin, T., Koga, H., Bartsch, Y. C., Belheouane, M., Kunzel, S., Sina, C., Schilf, P., Korber-Ahrens, H., Beltsiou, F., Lara Ernst, A., Khil'chenko, S., Al-Aasam, H., Manz, R. A., Diehl, S., Steinhaus, M., Jascholt, J., Kouki, P., Boehncke, W. H., Mayadas, T. N., Zillikens, D., Sadik, C. D., Nishi, H., Ehlers, M., Moller, S., Bieber, K., Baines, J. F., Ibrahim, S. M., and Ludwig, R. J. (2019) Gene-diet interactions associated with complex trait variation in an advanced intercross outbred mouse line. *Nat Commun* **10**, 4097
14. Wilms, B., Leineweber, E. M., Molle, M., Chamorro, R., Pommerenke, C., Salinas-Riester, G., Sina, C., Lehnert, H., Oster, H., and Schmid, S. M. (2019) Sleep Loss Disrupts Morning-to-Evening Differences in Human White Adipose Tissue Transcriptome. *J Clin Endocrinol Metab* **104**, 1687-1696
15. Derer, S., Brethack, A. K., Pietsch, C., Jendrek, S. T., Nitzsche, T., Bokemeyer, A., Hov, J. R., Schaffler, H., Bettenworth, D., Grassl, G. A., and Sina, C. (2020) Inflammatory Bowel Disease-associated GP2 Autoantibodies Inhibit Mucosal Immune Response to Adherent-invasive Bacteria. *Inflamm Bowel Dis*
16. Hahn, J., Gunter, M., Schuhmacher, J., Bieber, K., Poschel, S., Schutz, M., Engelhardt, B., Oster, H., Sina, C., Lange, T., and Autenrieth, S. E. (2020) Sleep enhances numbers and function of monocytes and improves bacterial infection outcome in mice. *Brain Behav Immun* **87**, 329-338
17. Sünderhauf, A., Pagel, R., Kunstner, A., Wagner, A. E., Rupp, J., Ibrahim, S. M., Derer, S., and Sina, C. (2020) Saccharin Supplementation Inhibits Bacterial Growth and Reduces Experimental Colitis in Mice. *Nutrients* **12**
18. Sünderhauf, A., Raschdorf, A., Hicken, M., Brethack, A.-K., Perner, S., Kemper, C., Ghebrehiwet, B., Sina, C., and Derer, S. (2020) GC1qR cleavage by caspase-1 drives aerobic glycolysis in tumor cells. *Frontiers in Oncology* **epub ahead of print**

19. Thiel AL, Ragab M, Wagner AE, Divanovic S, Derer S, Sina C (2020). Purification and Functional Characterization of the Chloroform/Methanol-Soluble Protein 3 (CM3) From *Triticum aestivum* in *Drosophila melanogaster*. *Front Nutr*.
20. Schilf P, Künstner A, Olbrich M, Waschina S, Fuchs B, Galuska CE, Braun A, Neuschütz K, Seutter M, Bieber K, Hellberg L, Sina C, Laskay T, Rupp J, Ludwig RJ, Zillikens D, Busch H, Sadik CD, Hirose M, Ibrahim SM (2021). A Mitochondrial Polymorphism Alters Immune Cell Metabolism and Protects Mice from Skin Inflammation. *Int J Mol Sci*.
21. Sünderhauf A, Hicken M, Schlichting H, Skibbe K, Ragab M, Raschdorf A, Hirose M, Schäffler H, Bokemeyer A, Bettenworth D, Savitt AG, Perner S, Ibrahim S, Peerschke EL, Ghebrehiwet B, Derer S, Sina C (2021). Loss of Mucosal p32/gC1qR/HABP1 Triggers Energy Deficiency and Impairs Goblet Cell Differentiation in Ulcerative Colitis. *Cell Mol Gastroenterol Hepatol*.
22. Jensen BAH, Holm JB, Larsen IS, von Burg N, Derer S, Sonne SB, Pærregaard SI, Damgaard MV, Indrelid SA, Rivollier A, Agrinier AL, Sulek K, Arnoldussen YJ, Fjære E, Marette A, Angell IL, Rudi K, Treebak JT, Madsen L, Åkesson CP, Agace W, Sina C, Kleiveland CR, Kristiansen K, Lea TE. (2021) Lysates of *Methylococcus capsulatus* Bath induce a lean-like microbiota, intestinal FoxP3+RORyt+IL-17+ Tregs and improve metabolism. *Nat Commun*.
23. Raschdorf A, Sünderhauf A, Skibbe K, Ghebrehiwet B, Peerschke EI, Sina C, Derer S. (2021). Heterozygous P32/C1QBP/HABP1 Polymorphism rs56014026 Reduces Mitochondrial Oxidative Phosphorylation and Is Expressed in Low-grade Colorectal Carcinomas. *Front Oncol*.