

10 most important Publications

1. Beer, S., Scheikl, T., Reis, B., Hüser, N., Pfeffer, K., Holzmann, B. (2005) Impaired immune responses and prolonged allograft survival in SLY- mutant mice. **Mol Cell Biol** 25: 9646-9660.
2. Autenrieth, S.E., Warnke, P., Wabnitz, G.H., Lucero Estrada, C., Pasquevich, K.A., Drechsler, D., Günter, M., Hochweller, K., Novakovic, A., Beer-Hammer, S., Samstag, Y., Hämmerling, G.J., Garbi, N., Autenrieth, I.B. (2012) Depletion of dendritic cells enhances innate anti-bacterial host defense through modulation of phagocyte homeostasis. **PLOS Pathogen** 8, e1002552.
3. Degrandi, D., Kravets, E., Konermann, C., Beuter-Gunia, C., Beer-Hammer, S., Pfeffer, K. (2013) Toxoplasma gondii replication is controlled by the murine guanylate binding protein 2 (mGBP2). **Proc Natl Acad Sci USA**, 110(1): 294-299.
4. Mays, L.E., Ammon-Treiber, S., Mothes, B., Müller-Hermelink, E.S., Grimm, M., Mezger, M., Beer-Hammer, S., Nürnberg, B., Schwab, M., Handgretinger, R., Idzko, M., Hartl, D., Kormann, M.S.D. (2013) Modified mRNA encoding Foxp3 protects against allergic asthma in mice through an IL-23/IL-17A-dependent mechanism. **J Clin Invest**, 123(3): 1216-1228.
5. Ezan, J., Lasvaux, L., Gezer, A., Novakovic, A., May-Simera, H., Belotti, E., Lhoumeau, A.-C., Birnbaumer, L., Beer-Hammer, S., Borg, J.-P., Le Bivic, A., Nürnberg, B., Sans, N., Montcouquiol, M. (2013) Primary cilia migration depends on G-protein signaling in mammalian epithelium. **Nat Cell Biol**, 15(9): 1107-15. doi: 10.1038/ncb2819. Epub 2013 Aug 11.
6. Schmitt, F., Schäll, D., Bucher, K., Schindler, T.I., Hector, A., Biedermann, T., Zemlin, M., Hartl, D., Beer-Hammer, S. (2015) SLY2 controls the antibody response to pneumococcal vaccine through an IL5-R α -dependent mechanism in B-1 cells. **Eur J Immunol** 45(1): 60-70. doi: 10.1002/eji.201444882. Epub 2014 Nov 13.
7. Devanathan, V., Hagedorn, I., Köhler, D., Pexa, K., Cherpokova, D., Kraft, P., Singh, M., Rosenberger, P., Stoll, G., Birnbaumer, L., Piekorz, R.P., Beer-Hammer, S.* , Nieswandt, B.* , Nürnberg, B.* (2015) Platelet G α_{i2} is an essential mediator of thrombo-inflammatory organ damage in mice. **PNAS** 112(20): 6491-6496. doi/10.1073 *shared last author
8. Arefanian, S., Schäll, D., Chang, S., Ghasemi, R., Higashikubo, R., Zheleznyak, A., Guo, Y., Yu, J., Asgharian, H., Li, W., Gelman, A.E., Kreisel, D., French, A.R., Zaher, H., Plougastel-Douglas, B., Maggi, L., Yokoyama, W., Beer-Hammer, S.* , Krupnick, A.S.* (2016) Deficiency of the Adaptor Protein SLY1 Results in a Natural Killer Cell Ribosomopathy Affecting Tumor Clearance. **Oncimmunology** 5(12): e1238543. *shared last author
9. Mauriac, S.A., Hien, E.Y., Bird, J., Dos-Santos Carvalho, S., Peyrourou, R., Moreau, M.M., Geysler, A., Medina, C., Thoumine, O., Beer-Hammer, S., Friedman, T., Rüttiger, L., Forge, A., Nürnberg, B., Sans, N., Montcouquiol, M. (2017) Identification of the molecular mechanism behind the Chudley McCullough syndrome reveals new function for mPins and G α_{i3} in cytoskeleton regulation. **Nat Communications** 7: 14907. doi: 10.1038/ncomms14907.
10. Kukuk, L., Dingley, A.J., Granzin, J., Nagel-Steger, L., Thiagarajan-Rosenkranz, P., Ciupka, D., Hänel, K., Batra-Safferling, R., Pacheco, V., Stoldt, M., Pfeffer, K., Beer-Hammer, S., Willbold, D., Koenig, B.W. (2019) Structure of the SLY1 SAM homodimer reveals a new interface for SAM domain self-association. **Sci Rep**. 9(1): 54. doi: 10.1038/s41598-018-37185-3.