

Liste der ausgewiesenen Publikationen

H-index = 28

IF (Impact Factor) from Journal Citation Report 2020

§ First Author

Last Author

1. # Walbaum, S., Ambrosy, B., Schutz, P., Bachg, A. C., Horsthemke, M., Leusen, J. H. W., Mócsai, A. & Hanley, P. J. (2021). Complement receptor 3 mediates both sinking phagocytosis and phagocytic cup formation via distinct mechanisms. *Journal of Biological Chemistry* 296,100256. [IF 5.157]
JBC Editors' Pick
2. § Hanley P. J., Vollmer, V. & Bähler, M. (2020). Class IX Myosins: Motorized RhoGAP Signaling Molecules. *Advances in Experimental Medicine and Biology* 1239: 381-389. [IF 2.622]
3. # van den Bos, E., Ambrosy, B., Horsthemke, M., Walbaum, S., Bachg, A. C., Wettschureck, N., Innamorati, G., Wilkie, T. M. & Hanley, P. J. (2020). Knockout mouse models reveal the contributions of G protein subunits to complement C5a receptor-mediated chemotaxis. *Journal of Biological Chemistry* 295, 7726-7742. [IF 5.157]
4. # van den Bos, E., Walbaum, S., Horsthemke M., Bachg, A. C. & Hanley, P. J. (2020). Time-lapse imaging of mouse macrophage chemotaxis. *Journal of Visualized Experiments* 158, e60750. [IF 1.355]
5. # Horsthemke M., Nutter, L. M. J., Bachg, A. C., Skryabin, B.V., Honnert, U., Zobel, T., Bogdan, S., Stoll, M., Seidl, M. D., Mueller, F. U., Ravens, U., Unger, A., Linke, W. A., van Gorp, P. R. R., de Vries, A. A. F., Bähler, M. & Hanley, P. J. (2019). A novel isoform of myosin 18A (Myo18A γ) is an essential sarcomeric protein in mouse heart. *Journal of Biological Chemistry* 294, 7202-7218. [IF 5.157]
JBC Editors' Pick
6. # Bachg, A. C., Horsthemke, M., Skryabin, B. V., Klasen, T., Nagelmann, N., Faber, C., Woodham, E., Machesk, L. M., Bachg, S., Stange, R., Jeong, H.-W., Adams, R. H., Bähler, M. & Hanley, P. J. (2019). Phenotypic Analysis of Myo10 Knockout Mice Selectively Lacking Full-length (Motorized) But Not Brain-Specific Headless Myosin X. *Scientific Reports* 9, 597. [IF 4.379]
7. # Horsthemke, M., Wilden, J., Bachg, A. C. & Hanley, P. J. (2018). Time-lapse 3D imaging of phagocytosis by mouse macrophages. *Journal of Visualized Experiments* 140, e57566. [IF 1.355]
8. # Horsthemke, M., Bachg, A. C., Groll, K., Moyzio, S., Müther, B., Hemkemeyer, S. A., Wedlich-Söldner, R., Sixt, M., Tacke, S., Bähler, M. & Hanley, P. J. (2017). Multiple roles of filopodial dynamics in particle capture and phagocytosis, and phenotypes of Cdc42 and Myo10 deletion. *Journal of Biological Chemistry* 292, 7258-7273. [IF 5.157]
9. # Bzymek, R., Horsthemke, M., Isfort, K., Mohr, S., Tjaden, K., Müller-Tidow, C., Thomann, M., Schwerdtle, T., Bähler, M., Schwab, A. & Hanley, P. J. (2016). Real-time two- and three-dimensional imaging of monocyte motility and navigation on

planar surfaces and in collagen matrices: roles of Rho. *Scientific Reports* 6, 25016. [IF 4.379]

10. # Königs, V., Jennings, R., Vogl, T., Horsthemke, M., Bachg, A. C., Xu, Y., Grobe, K., Brakebusch, C., Schwab, A., Bähler, M., Knaus, U. G. & Hanley, P. J. (2014). Mouse macrophages completely lacking Rho (RhoA, RhoB and RhoC) have severe lamellipodial retraction defects, but robust chemotactic navigation and altered motility. *Journal of Biological Chemistry* 289: 30772-307784. [IF 5.157]
11. Xu, Y., Pektor, S., Balkow, S., Hemkemeyer, S. A., Liu, Z., Grobe, K., Hanley, P. J., Shen, L., Bros, M., Schmidt, T., Bähler, M. & Grabbe, S. (2014). Dendritic cell motility and T cell activation requires regulation of Rho-cofilin signaling by the Rho-GTPase activating protein myosin IXb. *Journal of Immunology* 190, 5496-5505. [IF 5.422]
12. Lindemann, O., Umlauf, D., Frank, S., Schimmelpfennig, S., Bertrand, J., Pap, T., Hanley, P. J., Fabian, A., Dietrich, A. & Schwab, A. (2013). TRPC₆ regulates CXCR2-mediated chemotaxis of murine neutrophils. *Journal of Immunology* 190, 5496-5505. [IF 5.422]
13. Stock, C., Ludwig, F. T., Hanley, P. J. & Schwab, A. (2013). Roles of ion transport in control of cell motility. *Comprehensive Physiology* 3, 59-119. [IF 9.090]
14. Schwab, A., Fabian, A., Hanley, P. J. & Stock, C. (2012). Role of ion channels and transporters in cell migration. *Physiological Reviews* 92, 1865-1913. [IF 37.312]
15. § Hanley, P. J., Kronlage, M., Kirschning, C., del Rey, A., Di Virgilio, F., Leipziger, J., Chessell, I. P., Sargin, S., Filippov, M. A., Lindemann, O., Mohr, S., Königs, V., Schillers, H., Bähler, M. & Schwab, A. (2012). Transient P2X₇ receptor activation triggers macrophage death independent of Toll-like receptors 2 and 4, caspase-1, and pannexin-1 proteins. *Journal of Biological Chemistry* 287, 10650-10663. [IF 5.157]
16. # Isfort, K., Ebert, F., Bornhorst, J., Sargin, S., Kardakaris, R., Pasparakis, M., Bähler, M., Schwerdtle, T., Schwab, A. & Hanley, P. J. (2011). Real-time imaging reveals that P2Y₂ and P2Y₁₂ receptor agonists are not chemoattractants and macrophage chemotaxis to complement C5a is phosphatidylinositol 3-kinase (PI3K)- and p38 mitogen-activated protein kinase (MAPK)-independent. *Journal of Biological Chemistry* 286, 44776-44787. [IF 5.157]
JBC Editors' Pick (formerly, JBC Paper of the Week)
17. Bähler, M., Elfrink, K., Hanley, P. J., Thelen, S. & Xu, Y. (2011). Cellular functions of class IX myosins in epithelia and immune cells. *Biochemical Society Transactions* 39, 1166-1168. [IF 5.407]
18. # Kronlage, M., Song, J., Sorokin, L., Isfort, K., Schwerdtle, T., Leipziger, J., Robaye, B., Conley, P. B., Kim, H. C., Sargin, S., Schön, P., Schwab, A. & Hanley, P. J. (2010). Autocrine purinergic receptor signaling is essential for macrophage chemotaxis. *Science Signaling* 132, ra55. [IF 8.192]
19. Gao, Y. D., Hanley, P. J., Rinné, S., Zuzarte, M. & Daut, J. (2010). Calcium-activated K⁺ channel (K_{Ca}3.1) activity during Ca²⁺ store depletion and store-operated Ca²⁺ entry in human macrophages. *Cell Calcium* 48, 19-27. [IF 6.817]
20. § Hanley, P. J., Xu, Y., Kronlage, M., Grobe, K., Schön, P., Song, J., Sorokin, L., Schwab, A. & Bähler, M. (2010). Motorized RhoGAP myosin IXb (Myo9b) controls cell shape and motility. *Proceedings of the National Academy of Sciences U.S.A.* 107, 12145-12150. [IF 11.205]

21. # Li, X., Rapedius, M., Baukrowitz, T., Liu, G. X., Srivastava, D. K., Daut, J. & Hanley, P. J. (2010). 5-Hydroxydecanoate and coenzyme A are inhibitors of native sarcolemmal K_{ATP} channels in inside-out patches. *Biochimica Biophysica Acta* 1800, 385-391. [IF 4.663]
22. Stefan Dröse, Peter J. Hanley & Ulrich Brandt (2009). Ambivalent effects of diazoxide on mitochondrial ROS production at respiratory chain complexes I and III. *Biochimica Biophysica Acta* 1790, 558-565. [IF 3.770]
23. Schwab, A., Hanley, P., Fabian, A. & Stock C. (2008). Potassium channels keep mobile cells on the go. *Physiology (Bethesda)* 23, 212-220. [IF 7.159]
24. Putzke, C., Hanley, P. J., Schlichthörl, G., Preisig-Müller, R., Rinné, S., Anetseder, M., Eckenhoff, R., Berkowitz, C., Vassilou, T., Wulf, H. & Eberhard, L. (2007). Differential effects of volatile and intravenous anesthetics on the activity of human TASK-1. *American Journal of Physiology* 293, C1319-1326. [IF 4.249]
25. # del Rey, A., Renigunta, V., Dalpke, A. H., Leipziger, J., Matos, J. E., Robaye, B., Zuzarte, M., Kavelaars, A. & Hanley, P. J. (2006). Knockout mice reveal the contributions of P2Y and P2X receptors to nucleotide-induced Ca²⁺ signaling in macrophages. *Journal of Biological Chemistry* 281, 35147-35155. [IF 5.157]
26. # Dröse, S., Brandt, U. & Hanley, P. J. (2006). K⁺-independent actions of diazoxide question the role of inner membrane K_{ATP} channels in mitochondrial cytoprotective signaling. *Journal of Biological Chemistry* 281, 23733-23739. [IF 5.808]
27. # Kaufmann, A., Musset, B., Limberg, S. H., Renigunta, V., Sus, R., Dalpke, A. H., Heeg, K. M., Robaye, B. & Hanley, P. J. (2005). "Host tissue damage" signal ATP promotes non-directional migration and negatively regulates Toll-like receptor signaling in human monocytes. *Journal of Biological Chemistry* 280, 32459-32467. [IF 5.157]
(see also *Sci. STKE* (20 Sept.): Limiting the Damage)
28. § Hanley, P. J. & Daut, J. (2005). K_{ATP}-channels and preconditioning. A re-examination of the role of mitochondrial K_{ATP} channels and an overview of alternative mechanisms. *Journal of Molecular and Cellular Cardiology* 39, 17-50. [IF 5.000]
29. § Hanley, P. J., Dröse, S., Brandt, U., Lareau, R.A., Banerjee, A.L., Srivastava, D.K., Banaszak, L.J., Barycki, J.J., Van Veldhoven, P.P., Daut, J. (2005). 5-Hydroxydecanoate is metabolised in mitochondria and creates a rate-limiting bottleneck for β-oxidation of fatty acids. *Journal of Physiology* 562, 307-318. [IF 5.182]
30. # Burmester, M. D., Schlüter, K.-D., Daut, J. & Hanley, P. J. (2005). Enantioselective actions of bupivacaine and ropivacaine on coronary vascular resistance at cardiotoxic concentrations. *Anesthesia & Analgesia* 100, 707-712. [IF 5.108]
31. § Hanley, P. J., ter Keurs, H. E. D. J. & Cannell, M. B. (2004). Excitation-contraction-coupling in the heart and the negative inotropic action of volatile anesthetics. *Anesthesiology* 101, 999-1014. [IF 7.892]
32. § Hanley, P. J., Musset, B., Renigunta, V., Limberg, S. H., Dalpke, A. H., Sus, R., Heeg, K. M., Preisig-Müller, R. & Daut, J. (2004). Extracellular ATP induces oscillations in intracellular Ca²⁺ and membrane potential and promotes transcription of IL-6 in macrophages. *Proceedings of the National Academy of Sciences U.S.A.* 101, 9479-9484. [IF 11.205]

33. § Hanley, P. J., Gopalan, K. V., Lareau, R. A., Srivastava, D. K., von Meltzer, M. & Daut, J. (2003). β -oxidation of 5-hydroxydecanoate, a putative blocker of mitochondrial ATP-sensitive potassium channels. *Journal of Physiology* 547, 387-393. [IF 5.182]
34. Guild, S. J., Ward, M. L., Cooper, P. J., Hanley, P. J. & Loiselle, D. S. (2003). Extracellular Ca^{2+} is obligatory for ouabain-induced potentiation of cardiac basal energy expenditure. *Clinical and Experimental Pharmacology and Physiology* 30, 103-109. [IF 1.744]
35. Ward, M. L., Cooper, P. J., Hanley, P. J. & Loiselle, D. S. (2003). Species-independent metabolic response to an increase of $[\text{Ca}^{2+}]_i$ in quiescent cardiac muscle. *Clinical and Experimental Pharmacology and Physiology* 30, 586-589. [IF 2.557]
36. Rajan, S., Preisig-Muller, R., Wischmeyer, E., Nehring, R., Hanley, P. J., Renigunta, V., Musset, B., Schlichthörl, G., Derst, C. & Daut, J. (2002). Interaction with 14-3-3 proteins promotes functional expression of the potassium channels TASK-1 and TASK-3. *Journal of Physiology* 545, 13-26. [IF 5.182]
37. § Hanley, P. J., Ray, J., Brandt, U. & Daut, D. (2002). Halothane, isoflurane and sevoflurane inhibit NADH:ubiquinone oxidoreductase (complex I) of cardiac mitochondria. *Journal of Physiology* 544, 687-693. [IF 5.182]
38. § Hanley, P. J., Mickel M., Brandt, U., Löffler, M. & Daut, J. (2002). K_{ATP} channel-independent targets of diazoxide and 5-hydroxydecanoate in the heart. *Journal of Physiology* 542, 735-741. [IF 5.182]
39. Hambrock, A., Preisig-Müller, R., Russ, U., Piehl, A., Hanley, P., Ray, J., Daut, J., Quast, U. & Derst, C. (2002). Alternative splicing of sulfonylurea receptor 1. *American Journal of Physiology* 283, C587-598. [IF 4.249]
40. # Ray, J., Noll, F., Daut, J. & Hanley, P. J. (2002). Long chain fatty acids increase basal metabolism and depolarize mitochondria in cardiac muscle cells. *American Journal of Physiology* 282, H1495-1501. [IF 4.733]
41. Liu, G. X., Hanley, P. J., Ray, J. & Daut, J. (2001). Long-chain acyl-coenzyme A esters and fatty acids directly link metabolism to K_{ATP} channels in the heart. *Circulation Research* 88, 918-924. [IF 17.367]
42. Cooper, P. J., Ward, M. L., Hanley, P. J., Denyer, G. R. & Loiselle, D. S. (2001). Metabolic consequences of a species difference in Gibbs free energy of $\text{Na}^+/\text{Ca}^{2+}$ exchange: rat versus guinea pig. *American Journal of Physiology* 280, R1221-1229. [IF 3.619]
43. § Hanley, P. J., Young, A. A., LeGrice, I. J., Edgar, S. G. & Loiselle, D. S. (1999). 3-Dimensional configuration of perimysial collagen fibres in rat cardiac muscle at resting and extended sarcomere lengths. *Journal of Physiology* 517, 831-837. [IF 5.182]
44. § Hanley, P. J. & Loiselle, D. S. (1998). Mechanisms of force inhibition by halothane and isoflurane in intact rat cardiac muscle. *Journal of Physiology* 506, 231-244. [IF 5.182]
45. § Hanley, P. J., Cooper, P. J. & Loiselle, D. S. (1994). Energetic effects of caffeine in face of retarded $\text{Na}^+/\text{Ca}^{2+}$ exchange in isolated, arrested guinea pig hearts. *American Journal of Physiology* 267, H1663-1669. [IF 4.733]

46. § Hanley, P. J., Cooper, P. J. & Loiseau, D. S. (1994). Effect of hyperosmotic perfusion on rate of oxygen consumption of isolated guinea pig and rat hearts during cardioplegia. *Cardiovascular Research* 28, 485-493. [IF 10.787]