

Publication List

Peer reviewed articles

1. Mathai, JC, Missner, A, Kügler, P, Saparov, SM, Zeidel, ML, Lee, JK, Pohl, P (2009) No facilitator required for membrane transport of hydrogen sulfide. *Proc Natl Acad Sci U S A* 106:16633-16638.
2. Horner, A, Antonenko, YN, Pohl, P (2009) Coupled Diffusion of Peripherally Bound Peptides along the Outer and Inner Membrane Leaflets. *Biophys J* 96:2689-2695.
3. Missner, A & Pohl, P (2009) 110 years of the Meyer-Overton rule: Predicting membrane permeability of gases and other small compounds. *ChemPhysChem* 10:1405-1414.
4. Sokolov, VS & Pohl, P (2009) Membrane transport of singlet oxygen monitored by dipole potential measurements. *Biophys J* 96:77-85.
5. Antonenko, YN & Pohl, P (2008) Microinjection in combination with microfluorimetry to study proton diffusion along phospholipid membranes. *Eur Biophys J* 37:865-870.
6. Missner, A, Kugler, P, Antonenko, YN, Pohl, P (2008) Passive transport across bilayer lipid membranes: Overton continues to rule. *Proc Natl Acad Sci U S A* 105:E123.
7. Missner, A, Horner, A, Pohl, P (2008) Cholesterol's decoupling effect on membrane partitioning and permeability revisited: Is there anything beyond Fick's law of diffusion? *Biochim Biophys Acta* 1778:2154-2156.
8. Missner, A, Kugler, P, Saparov, SM, Sommer, K, Matthai, JC, Zeidel, ML, Pohl, P (2008) Carbon dioxide transport through membranes. *J Biol Chem* 283:25340-25347.
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10. Portella, G, Pohl, P, de Groot, BL (2007) Invariance of Single-File Water Mobility in Gramicidin-like Peptidic Pores as Function of Pore Length. *Biophys J* 92:3930-3937.
11. Saparov, SM, Liu, K, Agre, P, Pohl, P (2007) Fast and selective ammonia transport by aquaporin-8. *J Biol Chem* 282:5296-5301
12. Saparov, S. M., K. Erlandson, K. Cannon, J. Schaletzky, S. Schulman, T. A. Rapoport, P. Pohl. 2007. Determining the conductance of the SecY protein translocation channel for small molecules. *Mol. Cell* 26:501-509.
13. E. Stefan, B. Wiesner, G. S. Baillie, R. Mollajew, V. Henn, D. Lorenz, J. Furkert, K. Santamaria, P. Nedvetsky, C. Hundsrucker, M. Beyermann, E. Krause, P. Pohl, I. Gall, A. N. MacIntyre, S. Bachmann, M. D. Houslay, W. Rosenthal, and E. Klussmann. 2007. Compartmentalization of cAMP-dependent signaling by phosphodiesterase-4D is involved in the regulation of vasopressin-mediated water reabsorption in renal principal cells. *J.Am.Soc.Nephrol.* 18:199-212.
14. Saparov, S. M., J. R. Pfeifer, L. Al-Momani, G. Portella, B. L. de Groot, U. Koert, and P. Pohl. 2006. Mobility of a one-dimensional confined file of water molecules as a function of file length. *Phys. Rev. Lett.* 96:148101.

15. Saparov, S. M., Y. N. Antonenko, and P. Pohl. 2006. A new model of weak acid permeation through membranes revisited: Does Overton still rule? *Biophys. J.* 90:L86-L88.
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- A. Oksche, P. Pohl, G. Krause, and W. Rosenthal. 2004. Diabetes Insipidus, Molecular Biology of. In: *Encyclopedia of Molecular Cell Biology and Molecular Medicine*, edited by R. A. Meyers, John Wiley & Sons, pp. 301-324.
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- Saparov, S.M., U. Rothe, M.J. Borgnia, P. Agre, and P. Pohl. 2000. Volume flux across red cell AQP1 and E.coli AQPZ water channel proteins reconstituted into planar lipid bilayers. In *Molecular biology and physiology of water and solute transport*. S. Hohmann and S. Nielsen, editors. Kluwer Academic/Plenum Publishers, New York. 41-48.