

Complete list of publications

1. **A. Mishra**, Structural transitions in lipid membranes: Mechanism for cell penetrating peptides, *Advances in Planar Lipid Bilayers and Liposomes*, Vol 19, ADPLAN, UK: Academic Press, 2014, pp 103-130. Editors Ales Iglic, CHandrashekhar V. Kulkarni. (invited chapter)
2. N. Schmidt, **A. Mishra**, J. Wang, W. DeGrado, G. Wong, Influenza Virus A M2 Protein Generates Negative Gaussian Membrane Curvature Necessary for Budding and Scission, *J. Am. Chem. Soc.*, **135** (2013), 13710
3. N. Schmidt, K. Tai, K. Kamdar, **A. Mishra**, G. Lai, K. Zhao, A. Ouellette & G. Wong*, "Arginine in α -defensins: differential effects on bactericidal activity correspond to geometry of membrane curvature generation and peptide-lipid phase behavior", *The Journal of Biological Chemistry* (2012) **287**, 21866.
4. M. Zasloff*, A. Adams, B. Beckerman, A. Campbell, Z. Han, E. Luijten, I. Meza, J. Julander, **A. Mishra**, W. Qu, J. Taylor, S. Weaver, & G. Wong, "Squalamine as a broad spectrum antiviral agent with therapeutic potential", *Proceedings of the National Academy of Sciences*, **108** 15978, 2011.
5. **A. Mishra**, G. Lai, N. Schmidt, V. Sun, A. Rodriguez, R. Tong, L. Tang, J. Cheng, T. Deming, D. Kamei, & G. Wong*, "Translocation of HIV TAT peptide and analogues induced by multiplexed membrane and cytoskeletal interactions", *Proceedings of the National Academy of Sciences*, **108** 16883, 2011.
6. **A. Mishra**, K. Tai, N. Schmidt, A. Ouellette, & G. Wong*, "Small-Angle X-ray Scattering Studies of Peptide-Lipid Interactions Using the Mouse Paneth Cell α -Defensin Cryptdin-4", *Methods in Enzymology*, **492** 127, 2011.
7. N. Schmidt, **A. Mishra**, G. Lai, M. Davis, L. Sanders, D. Tran, A. Garcia, K. Tai, P. McCray, A. Ouellette, M. Selsted & G. Wong*, "Criterion for Amino Acid Composition of Defensins and Antimicrobial Peptides Based on Geometry of Membrane Destabilization", *Journal of the American Chemical Society*, **133** 6720, 2011.
8. N. Schmidt, **A. Mishra**, G. Lai, & G. Wong*, "Arginine-rich cell-penetrating peptides", *FEBS letters*, **584** 1806, 2009.
9. M. Yigit¹, **A. Mishra**¹, R. Tong, J. Cheng, G. Wong*, & Y. Lu*, "Inorganic Mercury Detection and controlled release of chelating agents from ion-responsive PEG-liposomes", *Chemistry & Biology*, **16** 937, 2009.
10. Z. Cao, R. Tong, **A. Mishra**, W. Xu, G. Wong, J. Cheng, & Y. Lu*, "Reversible cell-specific drug delivery with aptamer-functionalized liposomes", *Angewandte Chemie International Edition*, **48** 6494, 2009.

11. **A. Mishra**, V. Gordon, L. Yang, R. Coridan, & G. Wong*, "HIV TAT Forms Pores in Membranes by Inducing Saddle-Splay Curvature: Potential Role of Bidentate Hydrogen Bonding", *Angewandte Chemie International Edition*, **47** 2986, 2008.
12. L. Yang, V. Gordon, **A. Mishra**, A. Som, K. Purdy, M. Davis, G. Tew, & G. Wong, "Synthetic Antimicrobial Oligomers Induce a Composition-Dependent Topological Transition in Membranes", *Journal of the American Chemical Society*, **129** 12141, 2007.