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Related Experience Summary

Extensive work on computer modeling of proteins, membranes and aqueous solutions with over twenty years experience in computational chemistry and over 40 publications. I am a collaborator on the previous NASA Ames NAI proposal as well as Co-Investigator on proposals through the NASA Exobiology Program.

Employment History

Present - Research Scientist, UCSF

Previous - Associate Research Scientist, UCSF (07/2003-06/2006)

Assistant Research Scientist, UCSF (10/1996-06/2002)

Education

Ph.D., Theoretical Chemistry, University of California, Berkeley, 1988.

Thesis: Molecular Dynamics of Aqueous Electrolyte Solution Surfaces.

B.S., Chemistry, Massachusetts Institute of Technology, 1981.

Professional Societies

American Chemical Society, Sigma Xi, AAAS

Awards and Honors

2003, Ames Contractor Employee Honor Award, NASA Ames Research Center

1998, Achievement Award, Space Sciences Division, NASA Ames Research Center

1990-1991, National Research Council Postdoctoral Associate

Selected Relevant Publications

Pohorille, A., M. A. Wilson and C. Wei, (2008, in press). The Earliest Ion Channels. *Bioastronomy*.

Pohorille, A., K. Schweighofer and M. A. Wilson, (2005). The Origin and Early Evolution of Membrane Channels, *Astrobiology*, 5, 1-17.

Pohorille, A., M. A. Wilson, and C. Chipot, (2003). Membrane Peptides and their Role in Protobiological Evolution, *Orig. Life and Evol. Biosphere*, 33, 173-197

Pohorille, A. and M. A. Wilson, (2001). Unassisted and assisted ion transport across membranes: Insights from computer simulations, *Cell. Mol. Biol. Lett.*, 6, 369-374

Pohorille, A., M. A. Wilson, C. Chipot, M. H. New, and K. Schweighofer, (1999). Interactions of small molecules and peptides with membranes, in *Theoretical and Computational Chemistry: Computational Molecular Biology*, J. Leszczynski, ed., (Elsevier, Amsterdam, 1999) pp. 485-526.

Pohorille, A., M. H. New, K. Schweighofer and M. A. Wilson, (1999). Insights from computer simulations into the interactions of small molecules with membranes, in *Membrane Permeability: One hundred years since Ernst Overton (Current Topics in Membranes, Volume 48)*, D. Deamer, ed., (Academic Press, San Diego, 1999), Chapter 3, pp. 49-76.

Pohorille, A., M. A. Wilson, M. H. New, and C. Chipot, (1998). Concentrations of anesthetics across the water-membrane interface; the Meyer-Overton hypothesis revisited, *Toxicology Lett.*, 100-101, 421-430.
