

PUBLICATION LIST

- [1] M. Bacalum, L. Janosi, F. Zorila, A.-M. Tepes, C. Ionescu, E. Bogdan, N. Hadade, L. Craciun, I. Grosu, I. Turcu and M. Radu, “Modulating short tryptophan- and arginine-rich peptides activity by substitution with histidine”, *Biochimica et Biophysica Acta - General Subjects*, 1861, 1844 (2017)
- [2] L. Janosi and M. Ceccarelli, “The gating mechanism of the human aquaporin 5 revealed by molecular dynamics simulations”, *PLoS ONE*, 8, e59897 (2013)
- [3] Z. Li, L. Janosi and A. Gorfe, “Formation and domain-partitioning of H-Ras peptide nanoclusters: Effects of peptide concentration and lipid compositions”, *Journal of the American Chemical Society*, 134, 17278 (2012)
- [4] L. Janosi, Z. Li, J. Hancock and A. Gorfe, “Organization, dynamics and segregation of Ras nanoclusters in membrane domains”, *Proceedings of the National Academy of Sciences of the U.S.A.*, 109, 8097 (2012)
- [5] E. Flenner, L. Janosi, B. Barz, A. Neagu, G. Forgacs and I. Kosztin, “Kinetic Monte Carlo and cellular particle dynamics simulations of multicellular systems”, *Physical Review E*, 85, 031907 (2012)
- [6] A. Prakash, L. Janosi and M. Doxastakis, “GxxxG motifs, phenylalanine, and cholesterol guide the self-association of transmembrane domains of ErbB2 receptors”, *Biophysical Journal*, 101, 1949 (2011)
- [7] L. Janosi, H. Keer, R. Cogdell, T. Ritz and I. Kosztin, “*In silico* prediction of LH2 ring sizes from the crystal structure of a single subunit using molecular dynamics simulations”, *Proteins: Structure, Function, and Bioinformatics*, 79, 2306 (2011)
- [8] L. Janosi and A. Gorfe, “Segregation of negatively charged phospholipids by the polycationic and farnesylated membrane anchor of Kras”, *Biophysical Journal*, 99, 3666 (2010)
- [9] A. Prakash, L. Janosi and M. Doxastakis, “Self-association of models of transmembrane domains of ErbB receptors in a lipid bilayer”, *Biophysical Journal*, 99, 3657 (2010)
- [10] L. Janosi and A. Gorfe, “Importance of the sphingosine base double-bond geometry for the structural and thermodynamic properties of sphingomyelin bilayers”, *Biophysical Journal*, 99, 2957 (2010) – *featured article*
- [11] L. Janosi and A. Gorfe, “Simulating POPC and POPC/POPG bilayers: Conserved packing and altered surface reactivity”, *Journal of Chemical Theory and Computation*, 6, 3267 (2010)
- [12] L. Janosi, A. Prakash and M. Doxastakis, “Lipid-modulated sequence-specific association of Glycophorin A in membranes”, *Biophysical Journal*, 99, 284 (2010)
- [13] L. Janosi and M. Doxastakis, “Accelerating flat-histogram methods for potential of mean force calculations”, *Journal of Chemical Physics*, 131, 054105 (2009)
- [14] C. Calderon, L. Janosi and I. Kosztin, “Using stochastic models calibrated from nanosecond nonequilibrium simulations to approximate mesoscale information”, *Journal of Chemical Physics*, 130, 133908 (2009)
- [15] M. Forney, L. Janosi and I. Kosztin, “Calculating free-energy profiles in biomolecular systems from fast nonequilibrium processes”, *Physical Review E*, 78, 051913 (2008)
- [16] L. Janosi, I. Kosztin and A. Damjanovic, “Theoretical prediction of spectral and optical properties of bacterio-chlorophylls in thermally disordered LH2 antenna complexes”, *Journal of Chemical Physics*, 125, 014903 (2006)
- [17] L. Janosi, H. Keer, I. Kosztin and T. Ritz, “Influence of subunit structure on the oligomerization state of light-harvesting complexes: A free energy calculation study”, *Chemical Physics*, 323, 117 (2006)
- [18] I. Kosztin, B. Barz and L. Janosi, “Calculating potentials of mean force and diffusion coefficients from nonequilibrium processes without Jarzynski’s equality”, *Journal of Chemical Physics*, 124, 064106 (2006)