

Ph.D. and postdoctoral positions are available in the Molecular Biophysics laboratory headed by Dr. David Lukatsky in the department of Chemistry at Ben-Gurion University of the Negev. We are interested in understanding design principles of protein interaction specificity, design principles of protein-protein and protein-DNA interaction networks, and general principles of biomolecular recognition in a living cell. We invite highly motivated, recent graduates in physics with an excellent academic record, and interested in biophysics and systems biology to join our group. Postdoctoral position is available for two years with possible extension for a third year.

You can look at our recent papers to get a better idea of what we are doing:

1. M. Elkin, I. Andre, and **D. B. Lukatsky**, Energy Fluctuations Shape Free Energy of Nonspecific Biomolecular Interactions, *J. Stat. Phys.*, in press, (2012). (DOI) 10.1007/s10955-012-0421-1
2. A. Afek, I. Sela, N. Musa-Lempel, and **D. B. Lukatsky**, Nonspecific Transcription Factor-DNA Binding Influences Nucleosome Occupancy in Yeast, *Biophys. J.* **101**(10), 2465-2475 (2011).
3. **D. B. Lukatsky** A. Afek, and E. I. Shakhnovich, Sequence Correlations Shape Protein Promiscuity, *J. Chem. Phys.* **135**, 065104 (2011).
4. I. Sela and **D. B. Lukatsky**, DNA Sequence Correlations Shape Nonspecific Transcription Factor-DNA Binding Affinity, *Biophys. J.* **101**, 160-166 (2011).
5. A. Afek, E. I. Shakhnovich, and **D. B. Lukatsky**, Multi-Scale Sequence Correlations Increase Proteome Structural Disorder and Promiscuity, *J. Mol. Biol.* **409**, 439-449 (2011).

For further information please contact:

Dr. David Lukatsky
Department of Chemistry
Ben-Gurion University of the Negev, Beer Sheva

Lukatsky@bgu.ac.il

Ph. (work) +972-(0)8-6428-370

Ph. (cell) +972-(0)544-561-974

