

Efrat Farkash

LIST OF PUBLICATIONS

1. Tal Keren-Kaplan, Ilan Attali, Michael Estrin, Lillian S Kuo, **Efrat Farkash**, Moran Jerabek-Willemsen, Noa Blutraich, Shay Artzi, Aviyah Peri, Eric O Freed, Haim J Wolfson and Gali Prag. *Structure-based in silico identification of ubiquitin-binding domains provides insights into the ALIX-V:ubiquitin complex and retrovirus budding*. EMBO J. 2013 Jan 29. doi: 10.1038/emboj.2013.4.
2. **Efrat Mashiach-Farkash**, Roni Rak, Galit Elad-Sfadia, Roni Haklai, Shmuel Carmeli, Yoel Kloog and Haim J. Wolfson. *Computer-Based Identification of a Novel LIMK1/2 Inhibitor that Synergizes with Salirasib to Destabilize the Actin Cytoskeleton*. Oncotarget. 2012 Jun;3(6):629-39.
3. **Efrat Mashiach-Farkash**, Ruth Nussinov, Haim J. Wolfson. *SymmRef: a Flexible Refinement Method for Symmetric Multimers*. Proteins. 2011 Sep;79(9):2607-23. doi: 10.1002/prot.23082.
4. **Efrat Mashiach**, Dina Schneidman-Duhovny, Aviyah Peri, Yoli Shavit, Ruth Nussinov, Haim j. Wolfson. *An integrated suite of fast docking algorithms*. Proteins. 2010 Nov 15;78(15):3197-204.
5. **Efrat Mashiach**, Ruth Nussinov, Haim J. Wolfson. *FiberDock: a web server for flexible induced-fit backbone refinement in molecular docking*. Nucleic Acids Res. 2010 Jul 1;38 (Web Server issue):W457-61.
6. **Efrat Mashiach**, Ruth Nussinov, Haim J. Wolfson. *FiberDock: Flexible induced-fit backbone refinement in molecular docking*. Proteins. 2010 May 1;78(6):1503-19.
7. Oz Sharabi, Yoav Peleg, **Efrat Mashiach**, Eyal Vardy, Yacov Ashani, Israel Silman, Joel L. Sussman, and Julia M. Shifman. *Design, expression and characterization of mutants of fasciculin optimized for interaction with its target, acetylcholinesterase*. Protein Eng. Des. Sel., 2009 Oct 22(10):641-8.
8. Nelly Andrusier*, **Efrat Mashiach***, Ruth Nussinov, and Haim J. Wolfson. *Principles of Flexible Protein-Protein Docking*. Proteins, 2008 Nov 1;73(2):271-89.
(* These authors contributed equally to this work).
9. **Efrat Mashiach**, Dina Schneidman-Duhovny, Nelly Andrusier, Ruth Nussinov and Haim J. Wolfson. *FireDock: A Web Server for Fast Interaction Refinement in Molecular Docking*. Nucleic Acids Research, 2008 Jul 1;36(Web Server issue):W229-32.

CONFERENCES PARTICIPATIONS

1. Critical Assessment of Predicted Interactions (CAPRI) Evaluation Meeting. Barcelona, 9-11/12/09. I presented my research via a poster titled: *"An Integrated Suite of Fast Docking Algorithms: From Interface Prediction to Funnel Validation"*
2. The Annual International Conference on Intelligent Systems for Molecular Biology (ISMB) and the European Conference in Computational Biology (ECCB), Stockholm, 27/6 – 2/7/09. I gave an oral presentation and presented a poster on my work in the Structural Bioinformatics & Computational Biophysics Satellite Meeting (3DSIG). The title of the talk: *"FiberDock: Modeling restricted backbone flexibility in docking"*.

I have received an outstanding lecture award for this talk.

3. The European Molecular Biology Organization (EMBO) practical course on “Docking Prediction of Protein-Protein Interactions”, Barcelona, 14-17/10/08. I presented my research via a poster titled: *"A new approach for modeling backbone flexibility in docking"*.
4. The European Conference in Computational Biology (ECCB), Cagliari, 22-26/9/08. I presented my research via a poster titled: *"A new approach for modeling backbone flexibility in docking"*.