

Neer Asherie

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GRANTS RECEIVED

NATIONAL SCIENCE FOUNDATION <i>RUI: Chirality and the Phase Behavior of Globular Proteins:</i> September 2012 – August 2015	Principal Investigator \$275,000 (direct plus indirect costs)
NATIONAL SCIENCE FOUNDATION <i>RUI: Understanding the Self-Assembly of Globular Proteins: Phase Behavior, Interactions, and Chirality</i> September 2009 – August 2012	Principal Investigator \$300,000 (direct plus indirect costs)
ANONYMOUS DONOR/YESHIVA UNIVERSITY <i>Commercial Synthesis of R- and S-2-methyl-2,4-pentanediol</i> July 2008 – June 2009	Principal Investigator \$12,000 (direct costs)
KRESSEL SCHOLARS PROGRAM <i>Chirality and Protein Crystallization</i> June 2008 – May 2009	Principal Investigator \$14,000 (direct costs)
MILTON AND MIRIAM HANDLER FOUNDATION <i>Thaumatococcus: A Protein Sweetener</i> March 2006 – February 2009	Principal Investigator \$15,000 (direct costs)

PUBLICATIONS

1. **N. Asherie**, “A dialogue about protein crystallization and phase diagrams,” *Protein Pept. Lett.* **19**, 708-713 (2012).
2. C.H. Wales, J. Berger, S. Blass, R.M. Crooks, and **N. Asherie**, “Quasielastic light scattering of platinum dendrimer-encapsulated nanoparticles,” *Langmuir* **27**, 4104-4109 (2011).
3. **N. Asherie**, “Blind attraction: The mechanism of an inherited congenital cataract,” *Proc. Natl. Acad. Sci. USA* **108**, 437-438 (2011).
4. **N. Asherie**, J. Jakoncic, C. Ginsberg, A. Greenbaum, V. Stojanoff, B.J. Hrnjez, S. Blass and J. Berger, “Tartrate chirality determines thaumatin crystal habit,” *Cryst. Growth Des.* , 4189-4198 (2009).
5. **N. Asherie**, C. Ginsberg, A. Greenbaum, S. Blass and S. Knafo, “Effects of protein purity and precipitant stereochemistry on the crystallization of thaumatin,” *Cryst. Growth Des.* **8**, 4200-4207 (2008).
6. B.J. Hrnjez, A. Kabarriti, B.I. Dach, S.V. Buldyrev, **N. Asherie**, G.R. Natanov and J. Balderman, "Pyrazine in supercritical xenon: local density defined by experiment and calculation," *J. Phys. Chem. B* **112**, 15341-15441 (2008).
7. **N. Asherie**, C. Ginsberg, S. Blass, A. Greenbaum and S. Knafo, “Solubility of thaumatin,” *Cryst. Growth Des.* **8**, 1815-1817 (2008).
8. L. Chincarini and **N. Asherie**, “An analytical model for the formation of economic clusters,” *Reg. Sci. Urban Econ.* **38**, 252-270 (2008).
9. A. Pande, O. Annunziata, **N. Asherie**, O. Ogun, G.B. Benedek and J. Pande, “Decrease in protein solubility and cataract formation caused by the Pro23 to Thr mutation in human γ D crystallin,” *Biochemistry* **44**, 2491-2500 (2005).
10. **N. Asherie**, “Protein crystallization and phase diagrams,” *Methods* **34**, 266-272 (2004).
11. A. Lomakin, **N. Asherie**

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PUBLICATIONS (cont.)

12. A. Basak, O. Bateman, C. Siligsky, O. Pande, N. Asherie, O. Ogun, G.B. Benedek and J. Pande, “High resolution x-ray crystal structures of human γ D crystallin and the R58H mutant associated with aculeiform cataract,” *J. Mol. Biol.* **328**, 1137-1147 (2003).
13. O. Annunziata, N. Asherie, A. Lomakin, J. Pande, O. Ogun and G.B. Benedek, “Effect of polyethylene glycol on the liquid-liquid phase transition in aqueous protein solutions,” *Proc. Natl. Acad. Sci. USA* **99**, 14165-14170 (2002).
14. N. Asherie, J. Pande, <<MCID 11 >>BDC /TT5n(eri)-6(e)]TJ /TT1 1 Tf 0 TD1/74(nde)4(,)2(. O)-8-6(e) 1

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INVITED TALKS

- “An Adventure at X6A: Precipitant chirality and protein crystallization,”

