

BIOGRAPHICAL SKETCH

NAME OF APPLICANT/FELLOW Ursula D. Ramirez	POSITION TITLE		
eRA COMMONS USER NAME URAMIREZ	Postdoctoral Fellow		
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Rensselaer Polytechnic Institute, Troy, NY	B.S.	05/1995	Psychology
University of Texas at San Antonio	n/a	n/a	Biology
Northwestern University, Chicago, IL	Ph.D.	6/2006	Structural Biology

A. Positions and Honors

ACTIVITY/OCCUPATION	BEGINNING DATE (mm/yy)	ENDING DATE (mm/yy)	FIELD	INSTITUTION/COMPANY	SUPERVISOR/ EMPLOYER
Lieutenant, U.S. Air Force	07/95	07/99	Information Systems	U.S. Air Force	Paul M. Stanley
Postdoctoral Associate	12/05	Present	Computational Biology	Fox Chase Cancer Center	Eileen K. Jaffe

Academic and Professional Honors

1991-1993 AFROTC Type I Scholarship, Rensselaer Polytechnic Institute
 1999 USAF Commendation Medal
 1999 Graduate Fellowship, Northwestern University
 2008 Keystone Meeting Scholarship to the Keystone Symposium on Computer Aided Drug Design
 2008 - Postdoctoral Fellow (training grant) – Fox Chase Cancer Center

Memberships in professional societies:

American Association for the Advancement of Science
 American Crystallographic Association
 Association for Women in Science

B. Peer Reviewed Publications

Reid, L.D., Hubbell, C.L., Glick, S.D., Boswell, K.J., Chen, A.M, Moran, C.M., Cramer, C.M., **Mullen, U.D.**, Chambers, M.D., Gonzales, P.M., Irizarry, K.L., & Amendola, C.A. "Initial analyses of naltriben, a delta opioid receptor antagonist, as a putative medicine for treating cocaine abuse." *Experimental and Clinical Psychopharmacology*; 1996; 4: 271-284.

Ramirez, U.D., Minasov, G., Focia, P.J., Walter, P., Kuhn, P., Freymann, D.M. "Structural basis for mobility in the 1.1A crystal structure of the NG domain of T. Aquaticus Ffh." *Journal of Molecular Biology*; 2002; 320(4): 783-799.

Focia, P.J., Alam, H., Lu, T., **Ramirez, U.D.**, & Freymann, D.M. "Novel Protein and Mg²⁺ Configurations in the Mg²⁺-GDP Complex of the SRP GTPase Ffh Proteins." *Proteins: Structure, Function and Bioinformatics*; 2004; 54: 222-230.

Ramirez, U.D. & Freymann, D.M. "Characteristics of protein hydration in ultra-high resolution structures of the apo SRP GTPase Ffh." *Acta Crystallographica*; 2006; D62: 1520-1534.

Lawrence, S.H., **Ramirez, U.D.**, Fazliyev, F., Kundrat, L., Markham, G.D., Jaffe, E.K. "Shape shifting leads to

small-molecule allosteric drug discovery." *Chem. & Biol.*; 2008; 15(6): 586-596.

Ramirez, U.D., Focia, P.J., Freymann, D.M. "Nucleotide binding flexibility in ultrahigh-resolution structures of the SRP GTPase Ffh." *Acta Cryst.*; 2008; D64: 1043-1053.

Abstracts:

Ramirez, U.D., Minasov, G., Focia, P., and Freymann, D.M. 2001. "The 1.1Å resolution structure of the NG Domain of *Thermus aquaticus* Ffh: An analysis of motion." Abstract for poster presentation, Annual Meeting of the American Crystallographic Association, Los Angeles, CA.

Ramirez, U.D., Focia, P.J., Preininger, A.M., and Freymann, D.M. 2002. "Comparative Analysis of the apo and GDP-bound NG domain of *Thermus aquaticus* Ffh at ultra high resolution." Abstract for poster presentation, Annual Meeting of the American Crystallographic Association, San Antonio, TX.

Ramirez, U.D. and Freymann, D.M. 2003. "Analysis of Water Clusters in Ultra-high Resolution Structures of an SRP GTPase." Abstract for presentation as an invited speaker, West Coast Protein Crystallography Workshop, Monterey, CA.

Ramirez, U.D. and Freymann, D.M. 2004. "Water in the Structure-function Relationship of the SRP GTPase at 1.1Å Resolution." Abstract for poster presentation, Annual Meeting of the American Crystallographic Association, Chicago, IL

Ramirez, U.D., Lawrence, S.H., Bollivar, D.W., Kundrat, L., Canutescu, A.A., Markham, G.D., and Jaffe, E.K. 2006 "A Computational Approach to Morpheein Trapping for Drug Discovery." Abstract for invited research presentation, Fox Chase Cancer Center Postdoctoral & Graduate Student Research Conference, Philadelphia, PA

Ramirez, U.D., Lawrence, S.H., Markham, G.D., Jaffe, E.K. 2008 "Docking to a homology model exploits the newest model of allosteric regulation for small molecule drug discovery." Abstract for poster presentation, Keystone Computer-Aided Drug Design Meeting. Steamboat Springs, CO.

C. Research Support

Ongoing

T32 CA009035 (PI: Skalka)

9/29/2006 – 4/30/2011

NIH

Training Program in Cancer Research

The overall goal of this program is to prepare post-doctoral scientists for independent careers in basic and/or translational research focused on cancer.

Completed - none