

BIOGRAPHICAL SKETCH

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NAME Anthony Maresso		POSITION TITLE Assistant Professor	
eRA COMMONS USER NAME amaresso			
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
University of Illinois at Chicago, Chicago, IL.	BS	1999	Biology/Biochemistry
Medical College of Wisconsin, Wauwatosa, WI.	PhD	2005	Microbiology and Molecular Genetics

A. Positions and Honors.**Positions and Employment**

1997-1999	Veterinary Technician, Oak Village Animal Hospital, Oak Lawn, IL
1997-1999	Laboratory Assistant, Randal C. Jaffe - Advisor, Department of Biophysics, The University of Illinois at Chicago, Chicago, IL
2000-2005	Graduate Student, Joseph T. Barbieri - Advisor, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, Wauwatosa, WI
2005-2008	Postdoctoral Scholar, Olaf Schneewind - Advisor, Department of Microbiology, The University of Chicago, Chicago, IL
2008-present	Assistant Professor, Department of Molecular Virology and Microbiology, Baylor College of Medicine, Houston, Tx

Honors and Awards

1995	Chicago Park District Achiever Award
1995-1999	Dean's List
1995-2000	Tri-Beta Biological Honor Society
1997-2000	Golden Key National Honor Society
1999	Graduate high distinction
1999	Louis Pasteur Award
2001-present	American Society of Microbiology member
2002-2003	Medical College of Wisconsin Travel Award
2005	Outstanding Dissertation Award, Medical College of Wisconsin
2005	Great Lakes Regional Center of Excellence Research Award
2006	Refereed for the journals <i>Biochemistry</i> , <i>Nature Chemical Biology</i> , <i>PNAS</i> , <i>Molecular Microbiology</i> , <i>PLoS Pathogens</i> , <i>Journal of the American Chemical Society</i>
2006	Igor Stojilkovic Outstanding Research in Biometals Award

B. Publications**Research Papers**

1. **Maresso, A. W.**, and Barbieri, J. T. *Expression and Purification of Two Recombinant Forms of P. aeruginosa ExoS*. Protein Expression and Purification, 26, 2002, 432-37.
2. **Maresso, A. W.**, Riese, M. J., and Barbieri, J. T. *Molecular Heterogeneity of the Type-III Cytotoxin, P. aeruginosa ExoS*. Biochemistry, 42, 2003, 14249-57.

3. **Maresso, A. W.**, Baldwin, M. R., and Barbieri, J. T. *Ezrin/Radixin/Moesin Proteins are High Affinity Targets of P. aeruginosa ExoS*. Journal of Biological Chemistry, 37, 2004, 38402-8.
4. Sun, J. J., **Maresso, A. W.**, Kim, J. J., and Barbieri, J. T. *How Bacterial ADP-ribosylating Toxins Recognize Substrates*. Nature Structural Biology, 9, 2004, 868-76.
5. **Maresso, A.W.**, and Barbieri, J.T. *P. aeruginosa ExoS ADP-ribosyltransferase Inhibits ERM Phosphorylation*. Cellular Microbiology, 9(1), 2007, 97-105.
6. **Maresso, A.W.**, Chapa, T.J., and Schneewind, O. *Surface Protein IsdC and Sortase B are Required for Heme-Iron Scavenging of Bacillus anthracis*. Journal of Bacteriology, 188, 2006, 8145-52.
7. **Maresso, A.W.**, Wu, R., Kern, J., Zhang, R., Janik, D., Missiakas, D., Duban, M., Joachimiak, A., and Schneewind, O. *Activation of Inhibitors by Sortase Triggers Irreversible Modification of the Active Site*. Journal of Biological Chemistry, 282(32), 2007, 23129-39.
8. **Maresso, A.W.**, Garufi, G., and Schneewind, O. *B. anthracis Secretes Proteins that Mediate Heme Acquisition from Hemoglobin*. PLoS Pathogens, in press, 2008.

Book Chapters

1. **Maresso, A. W.**, Frank, D. W., and Barbieri, J. T. *P. aeruginosa Cytotoxins*. The Comprehensive Sourcebook of Bacterial Protein Toxins, 2007.

Reviews

1. **Maresso, A.W.** and Schneewind, O. *Iron Acquisition and Transport in S. aureus*. Biometals. 19(2), 2006, 193-203.
2. **Maresso, A.W.** and Schneewind, O. *Sortase as a Target for Anti-infective Therapy*. Pharmacological Reviews, 60(1), 2008, 128-41.

Abstracts

1. **Maresso, A. W.** and Barbieri, J. T. *Identification of In Vivo Targets of P. aeruginosa ExoS ADP-ribosyltransferase Domain*. Seventh Annual Conference on New and Reemerging Diseases. Urbana, IL. 2004.
2. **Maresso, A. W.**, Riese, M. J. and Barbieri, J. T. *Molecular Heterogeneity of P. aeruginosa Type-III Cytotoxin ExoS*. Tenth Annual Midwest Pathogenesis Meeting, Iowa City, IA. 2003.
3. **Maresso, A. W.**, Riese, M. J. and Barbieri, J. T. *Molecular Heterogeneity of P. aeruginosa Type-III Cytotoxin ExoS*. 101st Annual ASM General Meeting, Salt Lake City, UT. 2003.
4. **Maresso, A. W.**, Riese, M. J. and Barbieri, J. T. *Characterization of pl Isoforms of ExoS Observed Upon 2D-SDS-PAGE*. Medical College of Wisconsin Research Days, Wauwatosa, WI. 2003.
5. **Maresso, A. W.** and Barbieri, J. T. *Purification of Two Recombinant forms of the P. aeruginosa Type-III Cytotoxin ExoS*. Ninth Midwest Pathogenesis Meeting, Indianapolis, IN. 2002.
6. **Maresso, A. W.**, and Barbieri, J. T. *Biochemical analysis of rExoS Purified from P. aeruginosa*. Medical College of Wisconsin Research Days, Wauwatosa, WI. 2002.
7. Corech, R., **Maresso, A. W.**, and Barbieri, J. T. *Characterization of a Monoclonal Antibody to P. aeruginosa ExoS*. Tenth Annual Midwest Pathogenesis Meeting, Iowa City, IA. 2003.
8. **Maresso, A. W.**, Chappa, T, and Schneewind, O. *Characterization of an Isd-like Locus in B. anthracis*. Third Annual Great Lakes Regional Center of Excellence Meeting, Hilton Head, SC, 2005.
9. **Maresso, A.W.**, Kern, J.K., Marraffini, L.A., and Schneewind, O. *Screen for Inhibitors of Sortase*. Third Annual Great Lakes Regional Center of Excellence Meeting, Hilton Head, SC, 2005.
10. **Maresso, A.W.** and Schneewind, O. *Identification of a heme acquisition system in B. anthracis*. 5th International Symposium on Biometals, Welches, Oregon. 2006.
11. **Maresso, A.W.** Schneewind, O. *A Cell Wall-based Heme Acquisition System in B. anthracis*. International Bacillus ACT Conference, Oslo, Norway, 2007.
12. **Maresso, A.W.** and Schneewind, O. *A secreted hemophore from a Gram-positive pathogen*. 14th Annual Midwest Microbial Pathogenesis Meeting, Chicago, IL, 2007.

C. Research Support

Ongoing Research Support

Principal Investigator/Program Director (Last, First, Middle): Maresso, Anthony

F32 AI069697-01A2 (Maresso PI)

7/1/07-6/30/10

National Research Service Award, NIH/NIAID

“Characterization of Heme Acquisition by *Bacillus anthracis*”

This proposal investigates the mechanism of heme-iron acquisition by *B. anthracis*.

Completed Research Support

U54 AI57153 (Maresso PI)

8/15/06-6/30/07

GLRCE Developmental Grant, NIH/NIAID

“Characterization of Heme Acquisition by *Bacillus anthracis*”

This proposal investigates the mechanism of heme-iron acquisition by *B. anthracis*.