

Allyson K. Martínez, Ph.D.
1001 Leadership Place
Killeen, TX 76549

EDUCATION

Texas A&M University, College Station, TX
Doctorate of Philosophy in Microbiology **2008 – 2013**

Texas A&M University, College Station, TX
Bachelors of Science, Magna Cum Laude: Microbiology **2004 – 2006**

Tomball College, Tomball, TX
Associates of Science **2002 – 2004**

RESEARCH EXPERIENCE

Texas A&M Health Science Center, Dr. Shannon Glaser's Laboratory, Temple, TX
Postdoctoral Research **2014 – Present**

Texas A&M University, Dr. Matthew S. Sachs' Laboratory, College Station, TX
Graduate Research **2008 – 2013**

Texas A&M University, Dr. Max D. Summers' Laboratory, College Station, TX
Research Assistant **2007 – 2008**

PROFESSIONAL TEACHING EXPERIENCE

Central Texas College, Department of Science and Agriculture, Killeen, TX
Adjunct Microbiology Professor **2014 – Present**
Microbiology Lecture and Laboratory for non-majors

Texas A&M University, Department of Biology, College Station, TX
Graduate Teaching Assistant **2008 – 2013**
Introductory Microbiology Laboratory
Immunology Laboratory

PUBLICATIONS

Martínez, A.K., Maroni, L., Marzioni, M., Ahmed, S.T., Milad, M., Ray, D., Alpini, G., Glaser, S.S., (2014). Mouse models of liver fibrosis mimic human liver fibrosis of different etiologies. *Curr Pathobiol Rep.* 1;2 (4): 143-153.

Martínez, A.K., Glaser, S.S. (2014) Cholangiocyte Lipoapoptosis: implications for biliary damage during NAFLD. *Hepatology*. doi: 10.1002/hep.27341.

Martínez, A.K., Gordon, E., Sengupta, A., Shirole, N., Klepacki, D., Martinez-Garriga, B., Brown, L.M., Benedik, M.J., Yanofsky, C., Mankin, A.S., Vazquez-Laslop, N., Sachs, M.S., Cruz-Vera, L.R., (2014). Interactions of the TnaC nascent peptide with rRNA in the exit tunnel enable the ribosome to respond to free tryptophan. *Nucleic Acids Res.* 40 (2): 1245-1256. doi: 10.1093/nar/gkt923

Martínez, A.K., Shirole, N.H., Murakami, S., Benedik, M.J., Sachs, M.S., Cruz-Vera, L.R. (2012). Crucial elements that maintain the interactions between the regulatory TnaC peptide and the ribosome exit tunnel responsible for Trp inhibition of ribosome function. *Nucleic Acids Res.* 40 (5): 2247-2257. doi: 10.1093/nar/gkr1052

HONORS / AWARDS / FELLOWSHIPS

American Society for Microbiology and Burroughs Wellcome Fund Science Teaching Fellow – 2013

Lawrence S. Dillon Distinguished Graduate Student Award – 2012

U.S. Senator Phil Gramm Doctoral Fellowship – 2012

Office of Graduate Studies Research and Presentation Grant - 2012

Charlie Guantt Graduate Student Oral Presentation Honorable Mention award – ASM

Texas Branch Spring Conference – 2012

PRESENTATIONS

Texas A&M University – College of Medicine, Temple, TX

Dept of Medicine 22nd Annual Internal Medicine Research Day 2015

Poster Presentation: “Nicotine promotes cholangiocarcinoma growth in xenograft mice”

Scott & White Healthcare, Temple, TX

2014 Joseph E. and Martha E. Kutscher DDRC Symposium 2015

Invited Speaker: “Activation of the renin-angiotensin system stimulates biliary hyperplasia during cholestasis by extrahepatic bile duct ligation”

Texas A&M University – College of Medicine, Temple, TX

Dept of Medicine 21st Annual Internal Medicine Research Day 2014

Poster Presentation: “Double knockout of secretin and secretin receptor exacerbates biliary damage and decreases biliary proliferation and ductal secretion during extrahepatic cholestasis: protective role of bicarbonate secretion”

Texas A&M University, Department of Biology, College Station, TX

Student/Postdoc Research Conference

2012

Poster Presentation: “Functional interaction between ribosome arrest peptide TnaC residue Ile-19 and 23S rRNA nucleotides A2058/A2059”

Cold spring Harbor Laboratory, Cold spring Harbor, NY

Translational Control Conference

2012

Poster Presentation: “Functional interaction between ribosome arrest peptide TnaC residue Ile-19 and 23S rRNA nucleotides A2058/A2059”

- ASM Texas Branch, New Braunfels, TX**
Spring Meeting **2012**
 Oral Presentation: "Critical interactions between the regulatory leader peptide TnaC and the ribosomal exit tunnel are essential for peptidyl-transferase inhibition"
- Texas A&M University, Interdisciplinary, College Station, TX**
Student Research Week **2012**
 Oral Presentation: "Critical interactions between the regulatory leader peptide TnaC and the ribosomal exit tunnel are essential for peptidyl-transferase inhibition"
- Texas A&M University, Department of Biology, College Station, TX**
Graduate Student Seminar **2012**
 Oral Presentation: "Molecular mechanism of tryptophan regulation of the *tna* operon in *Escherichia coli*"
- Texas A&M University, Department of Biology, College Station, TX**
Student/Postdoc Research Conference **2011**
 Poster Presentation: "Critical interactions between the regulatory leader peptide TnaC and the ribosomal exit tunnel are essential for peptidyl-transferase inhibition"
- Texas A&M University, Department of Biology, College Station, TX**
Student/Postdoc Research Conference **2010**
 Poster Presentation: "An approach to understanding amino acid-dependent stalling of ribosomes by nascent regulatory peptides"
- Texas A&M University, Interdisciplinary, College Station, TX**
Program for the Biology of Filamentous Fungi Symposium **2010**
 Poster Presentation: "An approach to understanding amino acid-dependent stalling of ribosomes by nascent regulatory peptides"
- Texas A&M University, Department of Biology, College Station, TX**
Graduate Student Seminar **2009**
 Oral Presentation: "An approach to understanding amino acid-dependent stalling of ribosomes during translation"

PROFESSIONAL SOCIETIES

American Society for Microbiology - Member
American Society for Microbiology Texas Branch – Member
Golden Key International Honour Society – Member
The Honor Society of Phi Kappa Phi - Member

SERVICE TO PROFESSIONAL JOURNALS

Ad Hoc Reviewer for The Journal of Gastroenterology Research and Practice, Digestive and Liver Disease, BMC Research Notes, Case Reports in Medicine, and Libertas Academia

CAMPUS INVOLVEMENT

Biology Graduate Student Association – Member	2008 – 2013
Graduate Student Council – Biology Department Representative	2012 – 2013
Aggies Support USO – Member	2012 – 2014

OUTREACH

Texas A&M University, Dr. Nancy Magnussen, Program Advisor, College Station, TX	
Regional Science Bowl	2013
Moderator	
Texas A&M University, Dr. Nancy Magnussen, Program Advisor, College Station, TX	
Texas Junior Academy of Science	2013
Judge – Biochemistry and Microbiology Subject Areas	
Texas Junior Academy of Science	2012
Judge – Botany and Microbiology Subject Areas	
Texas A&M University, Dr. Nancy Magnussen, Program Advisor, College Station, TX	
Junior Regional Science Bowl	2012
Moderator	
Texas A&M University, Dr. Andreea Trache, Program Advisor, College Station, TX	
Saturday Morning Biophysics	2011 - 2012
Organizer	

MENTORING

Texas A&M University Health Science Center	
MD Students	
Mark Sohner – Summer 2014	
Kindra Walker – Summer 2014	
MD/PhD Students	
Laurent Ehrlich – Fall 2014 – Present	
Undergraduate Students	
Ryan Fares – Summer 2014	
High school/ Institute of Biosciences Students	
Ethan Atkisson – Summer 2014	
Interns	
Muhammad Mubarak – Fall 2014	