# VITA

Dr. Mashal M. Almutairi

**EDUCATION**

Doctor of Philosophy (Ph. D.), University of Illinois at Chicago (UIC), United States of America, 2015

Major: Pharmaceutical Biotechnology

Dissertation: The Natural Ketolides Methymycin and Pikromycin: Binding Sites, Modes of Action, Mechanisms of Resistance

Bachelor degree in pharmaceutical sciences, King Saud University**,** College of Pharmacy, Saudi Arabia, 2006

**PROFESSIONAL EXPERIENCE**

Assistant Professor, Department of Pharmcognosy, College of Pharmacy King Saud University, Saudi Arabia, August 2015-present

Summer Internship (Infection Biosciences), AstraZeneca, Boston, 2014

Teaching Assistant, College of Pharmacy, King Saud University, Saudi Arabia, 2008

ClinicalPharmacist**.** Saudi Ministry of Health, Saudi Arabia, 2007

HospitalInternship**,** Forces Hospital, Saudi Arabia, 2006

**PUBLICATIONS**

Cédric Orelle, Skylar Carlson, Bindiya Kaushal, **Mashal M. Almutairi**, Haipeng Liu, Anna Ochabowicz, Selwyn Quan, Van Cuong Pham, Catherine L. Squires, Brian T. Murphy, Alexander S. Mankin. “Tools for characterizing bacterial protein synthesis inhibitors.” Antimicrobial Agents and Chemotherapy (2013). Vol. 57 no. 12 (5994-6004).

**Mashal M. Almutairi,** Sung Ryeol Park, Simon Rose, Douglas A. Hansen, Nora Vázquez-Laslop, Stephen Douthwaite, David H. Sherman and Alexander S. Mankin. “Efficient resistance to ketolide antibiotics through coordinated expression of methyltransferase paralogs in a bacterial producer of natural ketolides.” Proc Natl Acad Sci U S A. 2015 Oct 20;112(42):12956-61

**Mashal M. Almutairi,** Douglas A. Hansen, Dorota Klepacki, Nora Vazquez-Laslop, Han-Young Kang, David H. Sherman, and Alexander S. Mankin. “The site of action of methymycin and pikromycin, the natural ketolide antibiotics.” (Manuscript in preparation).

**Mashal M. Almutairi**, Renu Singh, Maryann San Martin, April Chen, Jane Ambler. “[Evaluation of](http://www.ncbi.nlm.nih.gov/pubmed/22354289) ceftaroline pharmacokinetic/pharmacodynamic (PK/PD) Target against diverse characterized clinical [Staphylococcus aureus isolates in an in vitro](http://www.ncbi.nlm.nih.gov/pubmed/22354289) hollow-fibre infection model.” (Manuscript in preparation).

**POSTER PRESENTATIONS**

**Mashal M. Almutairi**, Douglas A. Hansen, Simon Rose, Stephen Douthwaite, David H. Shermanand Alexander S. Mankin. *Function and Regulation of Resistance Genes in Ketolide-producing Bacteria***, *ASBMB Annual Meeting 2015***, Boston.

**Mashal M. Almutairi**, Douglas A. Hansen, Simon Rose, Stephen Douthwaite, David H. Shermanand Alexander S. Mankin. *Function and Regulation of Resistance Genes in Ketolide-producing Bacteria***, *UIC College of Pharmacy’s Research Day 2015***, Chicago.

**Mashal M. Almutairi**, Douglas A. Hansen, David H. Shermanand Alexander S. Mankin. “How Ketolide-Producing Bacteria Avoid Suicide?”**, *XXI Midwest Microbial Pathogenesis Conference 2014***, Chicago.

**Mashal M. Almutairi**, Douglas A. Hansen, Simon Rose, Stephen Douthwaite, David H. Shermanand Alexander S. Mankin. *Function and Regulation of Resistance Genes in Ketolide-producing Bacteria***, *34th Midwest Enzyme Chemistry Conference 2014***, Chicago.

**Almutairi, Mashal**, Singh, Renu, San Martin, Maryann; Chen, April; Ambler, Jane. [Evaluation of](http://www.ncbi.nlm.nih.gov/pubmed/22354289) ceftaroline pharmacokinetic/pharmacodynamic (PK/PD) Target against diverse characterized clinical [*Staphylococcus aureus* isolates in an *in vitro* hollow-fibre infection model](http://www.ncbi.nlm.nih.gov/pubmed/22354289). ***AstraZeneca 2014***, Boston.

**Mashal M. Almutairi**, Douglas Hansen, David H. Sherman and Alexander S. Mankin. *Methymycin and Pikromycin: a Potentially Synergistic Pair of Ketolide Antibiotics*. ***ICAAC 2013***, Denver.

**Mashal M. Almutairi**, Douglas Hansen, David H. Sherman and Alexander S. Mankin. *Why a Macrolide Producer Carries Two Similar Resistance Genes*. ***Ribosome Meeting, 2013***, Napa Valley.

**Mashal M. Almutairi**, Douglas Hansen, Brian T. Murphy, David H. Shermanand Alexander S. Mankin. *One Drug: Two Sites of Action. Can Methymycin Target Two Different Sites in the Bacterial Ribosome?* ***UIC College of Pharmacy’s Research Day, 2013***, Chicago.

**Mashal M. Almutairi** and Alexander S. Mankin. *Multiple Resistance Mechanisms in a Multi-drug Producer*. ***RNA Meeting 2012***, Anna Arbor.

**Mashal M. Almutairi** and Alexander S. Mankin. *Multiple resistance mechanisms in a multi-drug producer*. ***UIC College of Pharmacy’s Research Day, 2012***, Chicago.

Max Rutter, Hiten Gutka, **Mashal M. ALmutairi**, Farahnaz Movahedzadeh. *Overexpression and Purification of an Acyl Carrier Protein of Mycobacterium tuberculosis*. ***UIC Student Forum 2011***, Chicago.

**AWARDS**

Van Doren Scholar Award, UIC (2015)

The ASM Student and Post Doctoral Fellow Travel Grant.The American Society of Microbiology and the ICAAC Program Committee, Denver (2013)

UIC Graduate College Student Presenter Award, UIC (2012, 2013, and 2015)

UIC Graduate Student Council Travel Award, UIC (2012, 2013, and 2015)

Travel Fellowship for the RNA 2012 Meeting, RNA 2012 Organizing Committee, Anna Arbor (2012)

King Saud University Scholarship for Graduate studies, King Saud University, Riyadh, Saudi Arabia (2008-2015)

**PROFESSIONAL AFFILIATION**

American Society of Biochemistry and Molecular Biology (ASBMB)

American Association of Pharmaceutical Scientists (AAPS)

American Society of Microbiology (ASM)

Saudi Pharmaceutical Society (SPS)

RNA Society