

## CURRICULUM VITAE

### MATTHEW G. BLANGO, PhD

#### Address

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#### Education

PhD              2012-Microbiology & Immunology, Department of Pathology, University of Utah, Salt Lake City, Utah  
B.A.              2006-Biology with a specialization in Biochemistry & Molecular Biology, Boston University, Boston, Massachusetts

#### Positions

2016-present    **Scientific Co-worker** (Postdoctoral Fellow, Small-Group Leader), Laboratory of Axel Brakhage PhD, Department of Molecular and Applied Microbiology, Leibniz Institute for Natural Product Research and Infection Biology: Hans Knöll Institute, Jena, Germany.  
2012-2016       **Postdoctoral Fellow**, Laboratory of Brenda L. Bass PhD, Biochemistry Department, University of Utah, Salt Lake City, UT.  
*Second Mentor (for Postdoc Guidance): Nels Elde, PhD; Department of Human Genetics*  
2006-2012       **Graduate Student**, Laboratory of Matthew A. Mulvey PhD, Pathology Department, University of Utah, Salt Lake City, UT.  
2004-2006       **Undergraduate Researcher**, Laboratory of Caroline A. Genco PhD, Department of Medicine, Section of Infectious Disease, Boston University, Boston, MA.

#### Research Grant / Travel Support

2015              Travel Scholarship for Keystone Mechanisms of Pro-Inflammatory Diseases Symposia  
2014-2015       **NIAID T32 AI055434** Microbial Pathogenesis Training Grant Postdoc Trainee  
2010-2012       **NIAID T32 AI055434** Microbial Pathogenesis Training Grant Graduate Trainee

#### Publications

1. **Blango MG\***, Kniemeyer O, Brakhage AA. Conidial surface proteins at the interface of fungal infections. *PLOS Pathogens*, 2019, doi: 10.1371/journal.ppat.1007939 \* = *corresponding author*
2. Bacher P, Hohnstein T, Beerbaum E, Röcker M, **Blango MG**, Kaufmann S, Röhm J, Eschenhagen P, Grehn C, Seidel K, Rickerts V, Lozza L, Stervbo U, Nienen M, Babel N, Milleck J, Assenmacher M, Cornely OA, Ziegler M, Wisplinghoff H, Heine G, Worm M, Siegmund B, Maul J, Creutz P, Tabeling C, Ruwwe-Glösenkamp,

Sander LE, Knosalla C, Brunke S, Hube B, Kniemeyer O, Brakhage AA, Schwarz C, Scheffold A. Human Anti-fungal Th17 Immunity and Pathology Rely on Cross-Reactivity against *Candida albicans*. Cell 2019, doi: 10.1016/j.cell.2019.01.041

3. Voltersen V\*, **Blango MG\***, Herrman S, Schmidt F, Heinekamp T, Strassburger M, Krueger T, Bacher P, Lother J, Weiss E, Huenniger K, Liu H, Hortschansky P, Scheffold A, Loeffler J, Krappmann S, Nietzsche S, Kurzai O, Einsele H, Kniemeyer O, Filler SG, Reichard U, Brakhage AA. Proteome Analysis reveals the Conidial Surface Protein CcpA Essential for Virulence of the Pathogenic Fungus *Aspergillus fumigatus*. mBio 2018, doi: 10.1128/mBio.01557-18 \* = equal contribution
4. Žukovskaja O, Kloß S, **Blango MG**, Ryabchykov O, Kniemeyer O, Brakhage AB, Bocklitz T, Cialla-May D, Weber K, Popp J. UV-Raman spectroscopic identification of fungal spores important for respiratory diseases. Analytical Chemistry 2018, doi: 10.1021/acs.analchem.8b01038
5. Erman A, Križan Hergouth V, **Blango MG**, Kerec Kos M, Mulvey MA, Veranic P. Repeated treatments with chitosan in combination with antibiotics completely eradicate uropathogenic *Escherichia coli* from infected mouse urinary bladders. Journal of Infectious Disease 2017, doi: 10.1093/infdis/jix023
6. **Blango MG**, Bass BL. Identification of the long, edited dsRNAome of LPS-stimulated immune cells. Genome Research 2016, doi: 10.1101/gr.203992.116
7. **Blango MG**, Ott EM, Erman A, Veranic P, Mulvey MA. Forced Resurgence and targeting of Uropathogenic *Escherichia coli* Reservoirs. PLOS ONE 2014, doi: 10.1371/journal.pone.0093327
8. Erman A, Lakota K, Mrak-Poljsak K, **Blango MG**, Krizan-Hergouth V, Mulvey MA, Sodin-Semrl S, Veranic P. Uropathogenic *Escherichia coli* Induces Serum Amyloid A in Mice following Urinary Tract and Systemic Inoculation. PLOS ONE 2012, doi: 10.1371/journal.pone.0032933
9. **Blango MG**, Mulvey MA. Persistence of Uropathogenic *Escherichia coli* in the Face of Multiple Antibiotics. Antimicrobial Agents and Chemotherapy 2010, doi: 10.1128/AAC.00014-10
10. **Blango MG**, Mulvey MA. Bacterial landlines: contact-dependent signaling in bacterial populations. Current Opinion in Microbiology 2009, doi: 10.1016/j.mib.2009.01.011

### Manuscripts Under Review

1. Shopova IA, Belyaev I, Dasari P, Jahreis S, Stroe MC, Cseresnyés Z, Zimmermann AK, Medyukhina A, Svensson CM, Krüger T, Szeifert V, Nietzsche S, Conrad T, **Blango MG**, Kniemeyer O, von Lilienfeld-Toal M, Zipfel PF, Ligeti E, Figge MT, Brakhage AA. Human neutrophils produce antifungal extracellular vesicles against *Aspergillus fumigatus*.

### Selected Presentations & Invited Seminars

2019                      **RNA 2019 | RNA Society**, Krakow, Poland

Poster: *Aspergillus fumigatus* elicits host-derived extracellular vesicles during infection

- 2018 **7<sup>th</sup> International Conference on Microbial Communication for Young Scientists: MiCom 2018**, Jena, Germany  
Invited Workshop Seminar entitled “How to Apply for Grants”
- 2018 **8<sup>th</sup> Advances Against Aspergillosis**, Lisbon, Portugal  
Short Talk in “*Aspergillus*: Entering the Host and Beyond” section: Insight into the surface proteome of *A. fumigatus* through comparative analysis with multiple allergy-inducing fungi (poster presented in tandem)
- 2017 **Microbiology and Infection – 5<sup>th</sup> Joint Conference of the DGHM & VAAM**, Würzburg, Germany  
Short Talk in “Fungi, in silico!” section: Surface-exposed Proteome of the Opportunistic Pathogen *Aspergillus fumigatus*
- 2015 **Keystone Conference on Mechanisms of Pro-Inflammatory Diseases**, Squaw Valley, CA  
Short Talk in “Sterile Nucleic Acid Sensing” section: Identification of Hyper-Edited, Immune-Relevant RNA in Activated Macrophages (poster presented in tandem)
- 2014 **Keystone Conference on Macrophages in Human Diseases**, Santa Fe, NM  
 Poster: Dynamics of dsRNA during the Macrophage LPS Response
- 2011 **Microbial Pathogenesis & Host Response**, Cold Spring Harbor, NY  
 Poster: Balanced Input from the tRNA prenyltransferase MiaA Regulates the Virulence Potential of UPEC
- 2011 **Molecular Genetics of Bacteria & Phage**, Madison, WI  
 Poster: Balanced Input from the tRNA prenyltransferase MiaA Regulates the Virulence Potential of UPEC
- 2011 **ASM Conference on Regulating with RNA in Bacteria**, San Juan, Puerto Rico  
 Poster: MiaA Regulates UPEC Pathogenesis
- 2010 **Banff Conference on Infectious Diseases**, Banff, Alberta, Canada  
 Poster: Monkeying Around the Bladder: Persistence of UPEC in the Urinary Tract
- 2009 **FASEB Research Conference on Host-Pathogen Interactions**, Snowmass, CO  
 Poster: Hard to Kill: Uropathogenic *Escherichia coli* Persist within the Urinary Tract Regardless of Antibiotics Treatment

### Teaching Experience

- 2017-2019 Master’s in Microbiology, Friedrich Schiller University Jena, MMB2.10: Section Proteomics
- 2009 Medical Microbiology Teaching Assistant, University of Utah

### Students and Technicians Supervised

- 2017-Present Leads small group of PhD and Master’s students focused on extracellular vesicle biology of fungal infections

### Committees / Societies

- 2019 RNA Society – Postdoc Member
- 2015 Research Administration Training Series Certification on Research Education
- 2014-2016 American Society of Microbiology – Postdoc Member
- 2013-2014 Utah Life Sciences Postdoc Organization Chair
- 2013 Biochemistry Department Student House Staff Advisory Committee Student Representative

2008-2010	Molecular Biology Program Steering Committee Student Representative
2008	Molecular Biology Program Recruiting Committee Chair
2008	Molecular Biology Program External Program Review Student Representative

**Selected Leadership Roles**

2015	Participant in ASBMB 50-State Challenge to lobby U.S. Congress for increased NIH/NSF funding. Met with Utah Congressman Christ Stewart and Legislative Correspondent, Stuart Portman, from the office Utah Senator Orrin Hatch.
2014	Presenter in American Fork High School Science, Technology, Engineering, and Math (STEM) Career Day
2014	Participant in ASBMB 50-State Challenge to lobby U.S. Congress for increased NIH/NSF funding. Met with Utah Congressman Chris Stewart and Health Policy Advisor, Katie Simeon, from Utah Senator Orrin Hatch's office.
2013-2016	Volunteer for Huntsman Hometown Heroes program, which raises money for cancer research through endurance sport events and fundraising.