

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

Selected Presentations & Invited Seminars

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| 2019 | RNA 2019 RNA Society , Krakow, Poland
Poster: <i>Aspergillus fumigatus</i> elicits host-derived extracellular vesicles during infection |
| 2018 | 7th International Conference on Microbial Communication for Young Scientists: MiCom 2018 , Jena, Germany
<u>Invited Workshop Seminar</u> entitled “How to Apply for Grants” |
| 2018 | 8th 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 – 5th 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

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| 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. |