CURRICULUM VITAE

MATTHEW G. BLANGO, PhD

Address

Business Leibniz Institute for Natural Product Research and Infection Biology: Hans Knöll Institute

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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). Laboratorv	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 Ke	evstone Mechanisms (of Pro-Inflammatory	Diseases Symnosia
2013	TIAVEL SCHOLALSHID TOLIK	Evaluite iviedijalijalija (JI FIOTIIIIAIIIIIALUIV	DISCUSES SVIIINOSIA

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**, Pschibul A, Rivieccio F, Krüger T, Muhammad R, Jia L, Zheng T, Goldmann M, Votersen V, Li J, Panagiotou G, Kniemeyer O, Brakhage AA. Dynamic Surface Proteomes of Allergenic Fungal Conidia. <u>Journal</u> of Proteome Research 2020, doi: 10.1021/acs.jproteome.0c00013
- 2. 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*. mBio 2020, doi: 10.1128/mBio.00596-20

- 3. **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
- 4. Bacher P, Hohnstein T, Beerbaum E, Röcker M, Blango MG, Kaufmann S, Röhmel 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 Antifungal Th17 Immunity and Pathology Rely on Cross-Reactivity against Candida albicans. Cell 2019, doi: 10.1016/j.cell.2019.01.041
- 5. 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*. <u>mBio</u> 2018, doi: 10.1128/mBio.01557-18 * = equal contribution
- 6. 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. <u>Analytical Chemistry</u> 2018, doi: 10.1021/acs.analchem.8b01038
- 7. 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
- 8. **Blango MG,** Bass BL. Identification of the long, edited dsRNAome of LPS-stimulated immune cells. <u>Genome Research</u> 2016, doi: 10.1101/gr.203992.116
- 9. **Blango MG**, Ott EM, Erman A, Veranic P, Mulvey MA. Forced Resurgence and targeting of Uropathogenic *Escherichia coli* Reservoirs. <u>PLOS ONE</u> 2014, doi: 10.1371/journal.pone.0093327
- 10. 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. <u>PLOS ONE</u> 2012, doi: 10.1371/journal.pone.0032933
- 11. **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
- 12. **Blango MG**. Mulvey MA. Bacterial landlines: contact-dependent signaling in bacterial populations. <u>Current Opinion in Microbiology</u> 2009, doi: 10.1016/j.mib.2009.01.011

Works in Preparation

1. Jia L, Krüger T, **Blango MG**, Kniemeyer O, Brakhage AA. Biotinylated surfome profiling identifies potential biomarkers for diagnosis and therapy of *Aspergillus fumigatus* infection. bioRxiv 2020, doi: 10.1101/2020.04.03.021493 **Submitted**

Selected Talks & Invited Seminars

2020	European Conference on Fungal Genetics, Rome, Italy
	Short Talk & Flash Talk in "Animal - Fungi Interactions" section: Aspergillus fumigatus elicits
	host-derived extracellular vesicles upon infection (poster presented in tandem)
2018	Clemson University - Department of Biological Sciences, Clemson, SC
	Invited Seminar entitled "Host-fungal pathogenesis in A. fumigatus is mediated by both close
	contact and long-range signaling"
2018	7 th International Conference on Microbial Communication for Young Scientists: MiCom 2018,
	Jena, Germany
	Invited Workshop Seminar 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 – 5 th 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)

Selected Poster Presentations		
2019	RNA 2019 RNA Society, Krakow, Poland	
	Poster: Aspergillus fumigatus elicits host-derived extracellular vesicles during infection	
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 <i>Escherichia coli</i> 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

Medical Microbiology Teaching Assistant, University of Utah 2009

Students and Technicians Supervised

2017-Present Leads small group of PhD and Master's students focused on extracellular vesicle and RNA

biology of fungal infections

Committees / Societies

2019-2020	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.	