



## Dr. Matthew Blango

**Junior Research Group Leader at the Leibniz Institute  
for Natural Product Research and Infection Biology—  
Hans Knöll Institute**



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<https://www.leibniz-hki.de/en/rna-biology-of-fungal-infections.html>

<https://blangolab.com/>

### Research Interests and Areas of Supervision

- *Regulation of RNA during fungal infection*
- *Interkingdom communication between hosts and fungal pathogens*
- *Development of RNA-based diagnostics and therapeutics*

### Education and Scientific Career

**Since 2020** Junior Research Group Leader, Junior Research Group RNA Biology of Fungal Infections, Leibniz Institute for Natural Product Research and Infection Biology: Hans Knöll Institute, Jena, Germany.

**2016-2020** Postdoctoral Fellow, Small-Group Leader, Laboratory of Axel A. 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.

**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.

### **Interdisciplinary Affiliation / Administrative Experience**

**2019-2020** RNA Society—Postdoc Member

**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

### **Honours and Awards**

**2020-2025** Federal Ministry of Education and Research (BMBF) – Project “RFIN – RNA Biologie von Pilzinfektionen” Grant for Junior Research Groups in Infection Biology

**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

### **Ten most important publications in international refereed journals**

Jia L, Krüger T, Blango MG, von Eggeling F, Kniemeyer O, Brakhage AA (2020) Biotinylated surfome profiling identifies potential biomarkers for diagnosis and therapy of *Aspergillus fumigatus* infection. **mSphere**, doi: 10.1128/mSphere.00535-20



Hassan MIA, Kruse JM, Krüger T, Dahse HM, Cseresnyés Z, Blango MG, Slevogt H, Hörhold F, Ast V, König R, Figge MT, Kniemeyer O, Brakhage AA, Voigt K (2020) Functional surface proteomic profiling reveals the host heat-shock protein A8 as a mediator of *Lichtheimia corymbifera* recognition by murine alveolar macrophages. ***Environmental Microbiology***, doi: 10.1111/1462-2920.15140

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 (2020) Dynamic Surface Proteomes of Allergenic Fungal Conidia. ***Journal of Proteome Research***, doi: 10.1021/acs.jproteome.0c00013

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 (2020) Human neutrophils produce antifungal extracellular vesicles against *Aspergillus fumigatus*. ***mBio***, doi: 10.1128/mBio.00596-20

Blango MG, Kniemeyer O, Brakhage AA (2019) Conidial surface proteins at the interface of fungal infections. ***PLOS Pathogens***, doi: 10.1371/journal.ppat.1007939

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 (2019) Human Anti-fungal Th17 Immunity and Pathology Rely on Cross-Reactivity against *Candida albicans*. ***Cell***, doi: 10.1016/j.cell.2019.01.041

Votersen V\*, Blango MG\*, Herrman S, Schmidt F, Heinekamp T, Strassburger M, Krueger T, Bacher P, Lothar 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 (2018) Proteome Analysis reveals the Conidial Surface Protein CcpA Essential for Virulence of the Pathogenic Fungus *Aspergillus fumigatus*. ***mBio***, doi: 10.1128/mBio.01557-18 \* = equal contribution

Blango MG, Bass BL (2016) Identification of the long, edited dsRNAome of LPS-stimulated immune cells. ***Genome Research***, doi: 10.1101/gr.203992.116

Blango MG, Ott EM, Erman A, Veranic P, Mulvey MA (2014) Forced Resurgence and targeting of Uropathogenic *Escherichia coli* Reservoirs. ***PLOS ONE***, doi: 10.1371/journal.pone.0093327



JSMC Jena School for Microbial Communication  
Graduate School of Excellence

Blango MG, Mulvey MA (2010) Persistence of Uropathogenic *Escherichia coli* in the Face of Multiple Antibiotics. ***Antimicrobial Agents and Chemotherapy***, doi: 10.1128/AAC.00014-10