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tl;dr_

- Postdoctoral fellow with wet lab and computational biology experience
- Interested in fungal biology and what makes a pathogen a pathogen

Education

University of Utah Salt Lake City, UT

PHD

2016

- · Zebrafish reveal variable effects of Escherichia coli during sepsis.
- · PI: Matthew Mulvey

University of Wisconsin-Madison

Madison, WI

2006

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Medical Microbiology and Immunology; Women's Studies

Experience _____

Leibniz HKI - Jena Oliver Kurzai, PI

POSTDOCTORAL FELLOW 2016-present

- Quantified the impact of azole fungicides on the ecology and resistance status of *Aspergillus fumigatus* in the environment.
- Population and comparative genomics of 250 Aspergillus fumigatus isolates, characterizing genetic differences between clinical and environmental samples, mechanisms of drug resistance, and pangenome diversity.
- NGS-based outbreak tracking of Candida auris isolates submitted to the National Reference Center for Invasive Fungal Infection in Germany

University of Utah Matthew Mulvey, Pl

GRADUATE RESEARCH ASSISTANT

2009-2016

- Characterized the host response to genetically distinct pathogenic Escherichia coli strains
- $\bullet \ \ \text{Determined contributions of bacterial flagellin and TLR5 signalilng to host response during sepsis}$
- Established and validated zebrafish model of sepsis by comparing clinical symptoms of human sepsis patients to pathologies seen in infected zebrafish embryos
- Created transgenic zebrafish lines putting IL-1b and IL-10 under inducible control and knocking out IL-10

University of Wisconsin-Madison

Clive Svendsen, PI

RESEARCH SPECIALIST

2007-2009

- Examined the neuroprotective and neuroregenerative effects of neural progenitor cell transplants expressing GDNF, IGF-1, and VEGF in animal models of neurodegenerative disease
- Characterized five patient-derived Huntingtons Disease iPS cell lines and established a differentiation protocol for making DARPP-32 positive striatal neurons from iPS cells

Publications

AE Barber, M Weber, K Kaerger, J Linde, H Gölz, D Duerschmied, ...

Antimicrobial agents and chemotherapy

COMPARATIVE GENOMICS OF SERIAL CANDIDA GLABRATA ISOLATES AND THE RAPID ACQUISITION OF ECHINOCANDIN RESISTANCE DURING THERAPY

2019

A Hamprecht, AE Barber, SC Mellinghoff, P Thelen, G Walther, Y Yu, ...

Emerging infectious diseases

CANDIDA AURIS IN GERMANY AND PREVIOUS EXPOSURE TO FOREIGN HEALTHCARE

2019

CK Kjelstrup, AE Barber, JP Norton, MA Mulvey, TM L'Abée-Lund

Veterinary research

ESCHERICHIA COLI O78 ISOLATED FROM SEPTICEMIC LAMBS SHOWS HIGH PATHOGENICITY IN A ZEBRAFISH MODEL

2017

AE Barber, JP Norton, TJ Wiles, MA Mulvey

Microbiol. Mol. Biol. Rev.

STRENGTHS AND LIMITATIONS OF MODEL SYSTEMS FOR THE STUDY OF URINARY TRACT INFECTIONS AND RELATED PATHOLOGIES

2016

AE Barber, BA Fleming, MA Mulvey

Msphere

SIMILARLY LETHAL STRAINS OF EXTRAINTESTINAL PATHOGENIC ESCHERICHIA COLI TRIGGER MARKEDLY DIVERSE HOST RESPONSES IN A ZEBRAFISH MODEL OF SEPSIS

2016

AE Barber, MA Mulvey

REPLY TO KAYE AND SOBEL

AE Barber, JP Norton, AM Spivak, MA Mulvey

URINARY TRACT INFECTIONS: CURRENT AND EMERGING MANAGEMENT STRATEGIES

Clinical infectious diseases 2013

Clinical Infectious Diseases

I Debnath, JP Norton, AE Barber, EM Ott, BK Dhakal, RR Kulesus, ...

THE CPX STRESS RESPONSE SYSTEM POTENTIATES THE FITNESS AND VIRULENCE OF UROPATHOGENIC ESCHERICHIA COLI

Infection and immunity 2013

AD Ebert, AE Barber, BM Heins, CN Svendsen

EX VIVO DELIVERY OF GDNF MAINTAINS MOTOR FUNCTION AND PREVENTS NEURONAL LOSS IN A TRANSGENIC MOUSE MODEL OF HUNTINGTON'S DISEASE

Experimental neurology

AD Ebert, AJ Beres, AE Barber, CN Svendsen

Human neural progenitor cells over-expressing IGF-1 protect dopamine neurons and restore function in a rat model of Parkinson's disease

Experimental neurology

2008

2010

NOVEMBER 2019

AMELIA E. BARBER · CURRICULUM VITAE