

Chengsheng Zhu

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Rutgers University, School of Environmental and Biological Sciences
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EDUCATION

Rutgers, the State University of New Jersey, New Brunswick, NJ

Ph.D. candidate, Microbiology and Molecular Genetics 2010-Now

Tentative Dissertation Title: Prokaryotic taxonomy/function diversity on (meta)genomic scale

Advisors: Yana Bromberg

Committee: Max Häggblom, Jeff Boyd, Vikas Nanda

Central Michigan University, Mt. Pleasant, MI

M.S., Biology 2010

Dissertation Title: Prokaryotic diversity in the four stomach chambers of white tailed deer

Advisors: Peter Kourtev

Committee: Gregory Colores, Bradley Swanson

Fudan University, Shanghai, China

B.S., Biology 2006

Dissertation Title: The bacterial and fungal diversity in biofilms on pool sand filters

Advisors: Zhexue Quan

Nanjing Foreign Language School, Nanjing, China

High School 2002

3rd in class

HONORS

The best oral presentation reward from Theobald Smith Society meeting 2015

The best oral presentation reward from Theobald Smith Society meeting 2014

Travel scholarship from Department of Biochemistry and Microbiology 2014

Rutgers MBS program 1st year fellowship 2010

Central Michigan University summer scholar 2009

Enlai fellowship 2003

PROFESSIONAL ACTIVITY

Member, **American Society for Microbiology** 2009-Now

Member, **International Society for Computational Biology** 2013-Now

TEACHING

Rutgers, the State University of New Jersey, New Brunswick, NJ

Nucleotide Sequence Analysis (Teaching Assistant) 2015

Rutgers, the State University of New Jersey, New Brunswick, NJ

Bioinformatics (Lab Instructor) 2014

Central Michigan University, Mt. Pleasant, MI

PEER-REVIEWED PUBLICATIONS

GenSpec, genome-based species identification for archaea. **Zhu C**, Bromberg Y. *In preparation.*

Functional basis of microorganism classification. **Zhu C**, Delmont T, Vogel T, Bromberg Y. *In press. PLoS Comb Bio.*

From mesophilic to thermophilic digestion: The transitions of anaerobic bacterial, archaeal and fungal community structures in sludge and manure samples. Sun W, Yu Guangwei, Louie T, Liu T, **Zhu C**, Xue G, Gao P. *Accepted. Appl. Microbiol. Biotechnol.*

Mercury Resistance and Mercuric Reductase Activities and Expression among Chemotrophic Thermophilic Aquificae. Freedman Z, **Zhu C**, Barkay T. *Appl. Environ. Microbiol.* 2012 Sep; 78(18):6568-75.

INVITED TALKS***Functional basis of microorganism classification***

Theobald Smith Society meeting, New Brunswick, NJ

2015

GenSpec, genome-based species identification for archaea

Theobald Smith Society meeting, New Brunswick, NJ

2014

GenSpec, the prokaryotic taxonomy mapper

Theobald Smith Society meeting, New Brunswick, NJ

2012

POSTERS

Zhu C and Bromberg Y. *GenSpec, genome-based species identification tool for archaea.* **ISMB '2014**

Honarbakhsh M, Rosario-Cruz Z, **Zhu C**, Sannino D and Bini E. *Comparative analysis of structure and composition of bacterial communities in wastewater final effluents and receiving stream.* **ASM '2011**

Zhu C, Surowiec C, Weaver M, Swanson BJ and Kourtev PS. *Prokaryotic diversity in the four stomach chambers of white tailed deer* **Fall MI-ASM '2009**
ASM '2009

Art in Science

Zhu C, Delmont TO and Eren AM. *Function network of eight soil metagenomic samples* **ISMB '2014**