

Curriculum Vitae

Zachary D. Kurtz

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Education

2005 – 2009

Stony Brook University Honors College

- BS (Biochemistry)

2011- Present

New York University School of Medicine

- PhD in Computational Biology/ Microbiology

Employment/ Research Experience

2005 Lab Technician

Soil Foodweb, Inc., Port Jefferson, NY. Supervisor: Paul Wagner

- Biological and Chemical Environmental Soil Testing

2005 (Summer) Researcher

Weizmann Institute, Rehovot, Israel, PI: Ehud Ahissar , PhD

- Animal behavior and neurobiology

2005 – 2009 Undergraduate Researcher

Stony Brook University, Center for Infectious Diseases, Stony Brook, NY.

PI: David Thanassi, PhD

- Mechanisms of Uropathogenic *E. coli* pathogenesis
- Virulence factor assembly in Enterotoxigenic *E. coli*

2010 – 2011 Research Technician

Mount Sinai School of Medicine, Department of Neurology, New York, NY.

PI: Dr Stuart Sealfon, MD

- Personalized Medicine research: profiling cytokine responses to transplant-related immunosuppression.

2011- Present Graduate Assistant

NYU School of Medicine, Sackler Institute for Biomedical Science, New York, NY.

PIs: Martin J Blaser, MD and Richard A Bonneau, PhD

- Development of computational approaches to study the intestinal microbiome in various disease models.

Awards

2004 – Simons Summer Research Fellowship at Stony Brook University
2005 – Full Scholarship for International Summer Institute at the Weizmann Institute, Israel
2005 – Presidential Tuition Scholarship at Stony Brook University
2006 – URECA Summer Research Fellowship at Stony Brook University
2007 – Howard Hughes Medical Institute Research Fellowship
2005 – 2009 Deans list at Stony Brook University
2012 – Recipient of NIH Infectious Diseases and Basic Microbiological Mechanisms Training Grant (5T32AI007180-30)

Publications

Kulkarni, R., Dhakal, B. K., Slechta, E. S., **Kurtz, Z.**, Mulvey, M. A., & Thanassi, D. G. (2009). Roles of Putative Type II Secretion and Type IV Pilus Systems in the Virulence of Uropathogenic *Escherichia coli*. *PLoS ONE*, 4(3), e4752.

“Understanding Virulence Factors of Pathogenic *Escherichia coli*” (BS thesis, Stony Brook University Honors College, 2009)

Abstracts:

Kurtz ZD, Cox, LM, Plottel, CS, Blaser MB. Gut microbiome and bacterial β -glucuronidase activity. Abstract presented at NYU Department of Medicine Research Day, New York, NY, May 2011

Kurtz, ZD, Cox, LM, Blaser, MJ. Towards Robust Correlation Networks for Microbial Ecology. Abstract presented at 1st Drexel Workshop on Microbiome Research, Philadelphia, PA., March 2012.

Reviews

“Lost in the DARC - the Undefined Role of an Anti-Malarial Mutation in HIV infection.” (2009). Stony Brook Young Investigators Review, 1 Winter, _____

Memberships in professional societies/clubs

New York Academy of Science
American Association for the Advancement of Science
NYU Entrepreneur Network