

Albert C. Vill

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Education

Bachelor of Science, Magna Cum Laude — Gettysburg College
Biochemistry and Molecular Biology major, 3.70 GPA
Lincoln Scholar – highest merit-based scholarship awarded
Graduated May 2016

Research Experience

PhD Candidate – Lab of Dr. Ilana Brito, Cornell University
Designing and implementing methods to quantify changes in the composition and function of the human gut microbiome during perturbation and disease
Spring 2017 – present

HHMI Summer Research Fellow – Gettysburg College
Characterizing soil bacteriophages by host range screens and comparative genomics
Summers, 2014 & 2015

Publications

Kent AG, **Vill AC**[†], Shi Q, Satlin MJ, Brito IL. Widespread transfer of mobile antibiotic resistance genes within individual gut microbiomes revealed through bacterial Hi-C. *Nat Commun.* 2020 Sep 1;11(1):4379.
[†] *co-first author* 2020

Delesalle VA, **Vill AC**, Tomko BE, Boas K, Burton EA, Guffey AA, Loney R, Simões MS, Tanke NT, Krukonis GP. Comparative genomics of fourteen novel Siphoviridae phages of *Bacillus subtilis*, including three phages closely related to SPP1. In preparation

Delesalle VA, Tanke NT, **Vill AC**, Krukonis GP. Testing hypotheses for the presence of tRNA genes in mycobacteriophage genomes. *Bacteriophage.* 2016 Aug 5;6(3):e1219441. 2016

Pope WH, Bowman CA, Russell DA, Jacobs-Sera D, Asai DJ, Cresawn SG, Jacobs WR, Hendrix RW, Lawrence JG, Hatfull GF; **Science Education Alliance Phage Hunters Advancing Genomics and Evolutionary Science**[‡]; Phage Hunters Integrating Research and Education; Mycobacterial Genetics Course. Whole genome comparison of a large collection of mycobacteriophages reveals a continuum of phage genetic diversity. *eLife.* 2015 Apr 28;4:e06416. 2015

[‡] *consortium member, data contributor*

Awards

Distinguished Scholar, Cornell Center for Vertebrate Genomics 2020

Honorable Mention, NSF Graduate Research Fellowship 2019

Herzog Teaching Fellow, Gettysburg College 2015

HHMI Summer Research Fellow, Gettysburg College 2014 & 2015