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 bacteriophages by host-range screens and comparative genomics

Summers, 2014 & 2015

Honors and Awards

Travel Award Recipient, Cornell Center for Vertebrate Genomics	2022
Seed Grant Recipient, Genomics Innovation Hub	2020
Distinguished Scholar, Cornell Center for Vertebrate Genomics	2019
Honorable Mention, NSF Graduate Research Fellowship	2018
Herzog Teaching Fellow, Gettysburg College	2015
HHMI Summer Research Fellow, Gettysburg College	2014 & 2015

Presentations

Poster — The Human Microbiome: Ecology and Evolution Symposium Run-on sequencing enables nascent metatranscriptomics of the human microbiome

(canceled) 2022

Poster — Lake Arrowhead Microbial Genomics Meeting Bacterial nascent transcriptomics with precision run-on sequencing (canceled) 2021

Poster — Biomedical Engineering Society Annual Meeting Monitoring the Transfer of Antibiotic Resistance Genes in Patients with Neutropenia using Bacterial Hi-C 2019

Publications

VIII AC, Rice EJ, De Vlaminck I, Danko CG, Brito IL. Run-on sequencing reveals transcriptional dynamics within the human microbiome.

Submitted Jan. 2022

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

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. *Nature Communications*. 2020 Sep 1;11(1):4379.

2020

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.

[†] co-first author

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[‡] consortium member, data contributor