**Adam Brynes**

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**Education**

**University of Pittsburgh Pittsburgh, PA**

Graduate Student in Program in Microbiology August 2019-Present

and Immunology (PhD program)

CIRTL Associate Level Teaching Certificate August-December-2022

**University of Pittsburgh Pittsburgh, PA**

B.S in Microbiology; minors in history and chemistry August 2013-April 2017

Summa cum Laude

**EMT & Fire Training Priest Lake, Idaho**

 March 2013-June 2013

Obtained NREMT EMT-B certification

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**Selected Presentations and Talks**

**Adam W. Brynes**, Yu Zhang, John V. Williams. Human metapneumovirus SH inhibits multiple immune signals. Talk given at ASV 2022; July 18th, 2022; Madison WI.

**Adam W. Brynes,** Yu Zhang, John V. Williams. Understanding the Role of HMPV Small Hydrophobic Protein in Innate Immune Inhibition. Poster presented at BGSA Symposium 2022; November 2nd 2022; University of Pittsburgh.

**Adam W. Brynes**, John V. Williams. Human Metapneumovirus Small Hydrophobic Protein Disrupts Multiple Immune Signaling Pathways. Talk given at AIC 2021; November 20th 2021; Chicago, IL.

**Adam W. Brynes**, John V. Williams. Human Metapneumovirus Small Hydrophobic Protein Disrupts Multiple Immune Signaling Pathways. Poster presented at BGSA Symposium 2021; October 27th, 2021; University of Pittsburgh.

**Adam W. Brynes**,Krishnan Raghunathan, Alison W. Ashbrook, Solomiia Khomandiak, Thomas

E. Morrison, Michael S. Diamond, Laurie A. Silva, Terence S. Dermody. *COPI regulatory factor GBF1 is required at multiple steps in the replication cycle of chikungunya virus***.** Talk given at ASV 2019; July 22nd; Minneapolis Minnesota.

Laurie A Silva, Krishnan Raghunathan, **Adam Brynes**, Nicole McAllister, Alison Ashbrook, Solomiia Khomandiak, Thomas Morrison, Michael Diamond, and Terence Dermody. *Understanding the Function of Host Trafficking Protein, GBF1, in Chikungunya Virus Replication*. Poster presented at: Children’s Hospital Rangos Research Symposium; 2018, June 21st; Pittsburgh PA.

**Adam Brynes**, George Michael Preston, and Jeffrey L Brodsky. *Impact of CFTR-NBD2 Mutations on Chimera Solubility and Quality Control Factor Dependent Stability.* Poster presented at: University of Pittsburgh, Undergraduate Research Fair; 2016, March 30th; Pittsburgh, PA

**Adam Brynes**, George Michael Preston, and Jeffrey L Brodsky. *Searching for a Relationship Between Stability and Solubility of Select Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Mutants.* Talk given at: University of Pittsburgh, Brackenridge Fellowship Round Two Presentation; 2016, November 8; Pittsburgh, PA.

**Adam Brynes**,George Michael Preston, and Jeffrey L Brodsky. *Searching for a Relationship Between Stability and Solubility of Select Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Mutants Round One*. Talk given at: University of Pittsburgh, Brackenridge Fellowship Round One Presentation; 2016, September; Pittsburgh, PA.

**Adam Brynes**, George Michael Preston, and Jeffrey L Brodsky. *Finding Proteins that*

*Degrade and Stabilize Specific Cystic-Fibrosis-Causing Mutants Round One*. Talk given at: University of Pittsburgh, Brackenridge Fellowship Round One Presentation; 2015, September; Pittsburgh, PA

**Adam Brynes**, George Michael Preston, and Jeffrey L Brodsky. *Finding Proteins that Degrade and Stabilize Specific Cystic-Fibrosis-Causing Mutants*. Talk given at: University of Pittsburgh, Brackenridge Fellowship Round Two Presentation; 2015, October 23rd; Pittsburgh, PA.

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**Manuscripts in Preparation**

Silva LA, Raghunathan K, **Brynes AW**, Ashbrook AW, Khomandiak S, Morrison TE, Diamond MS, and Dermody TS. Host trafficking regulatory protein GBF1 is required for chikungunya virus replication and production of infectious virus. *Manuscript in preparation*

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**Pre-Graduate Research Experience**

**University of Pittsburgh Dermody Lab Research Technician III Pittsburgh, PA**

August 2017-July 2019

Worked with an established research team in the lab of Dr. Terrence Dermody to study aspects of the intracellular replication cycle of chikungunya virus. Research required mastery of diverse virology and molecular biology techniques. Regular duties involved actively participating in working groups and presenting research and accomplishments at lab meetings. Duties also included engaging with the research team to plan out future experiments and publications and finding and providing general lab support.

**Brodsky Lab Lab Aide and Undergraduate Researcher Pittsburgh, PA**

 Lab aide: 2014-2015

 Undergraduate Researcher: 2015-Summer 2017

As an undergraduate researcher, performed research aimed at characterizing cellular degradation and other properties of novel mutant proteins with implications for research into cystic fibrosis. Research required mastery of a broad range of scientific techniques including western blotting, extensive manipulation of cultured yeast and bacterial cells, nucleic acid cloning and purification, and independent literature review.

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**Awards and Honors**

* Viral Persistence and Pathogenesis T32 AI049820 (Jul-2020 to Jul 2022)
* Brackenridge Research Fellowship. Fall Semester 2015
* Brackenridge Research Fellowship. Fall Semester 2016
* University of Pittsburgh University Scholar Award (2016)
* University of Pittsburgh Dean’s List (Fall 2013)
* University of Pittsburgh Dean’s List (Spring 2014)
* University of Pittsburgh Dean’s List (Fall 2014)
* University of Pittsburgh Dean’s List (Spring 2015)
* University of Pittsburgh Dean’s List (Fall 2015)
* University of Pittsburgh Dean’s List (Spring 2016)
* University of Pittsburgh Dean’s List (Fall 2016)
* University of Pittsburgh Dean’s List (Spring 2017)

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**Professional Societies**

American Society for Virology April 2018-Present

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**Leadership and Teaching**

Rust Belt Science Outreach Business Manager (educational nonprofit project)

 2021-Present

Graduate TA: Medical Microbiology Lab

University of Pittsburgh Spring Semester 2022

Graduate TA: Medical Microbiology Lab

University of Pittsburgh Spring Semester 2021

Teaching Assistant: Microbiology Lecture

University of Pittsburgh Fall semester 2015

Teaching Assistant: Organic Chemistry I Laboratory

University of Pittsburgh Fall semester 2015

Teaching Assistant: Organic Chemistry I/II Experimental Combined Laboratory

University of Pittsburgh Spring Semester 2016

Business Manager for The Oakland Teahouse student organization

University of Pittsburgh 2015

President of The Oakland Teahouse student organization

University of Pittsburgh 2016