Brett E. Pickett Ph.D. 801-422-2506 brett_pickett @byu.edu

Education:

Postdoctoral Fellowship (2010 - 2012)—University of Texas Southwestern Medical Center
Ph.D. Microbiology (2005 - 2010)—University of Alabama at Birmingham
B.S. Microbiology (1999 - 2005)—Brigham Young University

Professional Experience:

Associate Profesor, Brigham Young University (September 2025 - Present)
Assistant Professor, Brigham Young University (October 2019 – August 2025)
Lead Scientist, Booz Allen Hamilton (November 2018-October 2019)
Assistant Professor, J. Craig Venter Institute (October 2016-November 2018)
Staff Scientist, J. Craig Venter Institute (February 2016-September 2016)
Solution Scientist, Thomson Reuters (May 2014-February 2016)

Bioinformatics Analyst, J. Craig Venter Institute (June 2012 – May 2014)

Postdoctoral Researcher, University of Texas Southwestern Medical Center (May 2010-May 2012). Mentor: Dr. Richard Scheuermann

Graduate Student Assistant, University of Alabama at Birmingham (Aug 2005-May 2010) Mentor: Dr. Elliot J. Lefkowitz

Undergraduate Research Assistant, Brigham Young University (Aug 2003-Apr 2005)
Mentor: Dr. Donald P. Breakwell

Teaching Experience:

BYU: Assistant Professor in Microbiology and Molecular Biology

- Didactic Courses
  - MMBIO 240, *Molecular Biology* (lecture)
  - MMBIO 667, *Quantitative Genomics* (lab & lecture)
  - MMBIO 221, *General Microbiology* (lecture)
  - MMBIO 390R, *Readings in Molecular Biology* (lecture)
- Didactic Lab Courses
  - MMBIO 195R: *Phage Comparative Genomics* (lab and lecture)
  - MMBIO 385, *Phage Genomics* (lab and lecture)
- Mentored Research Courses
  - MMBIO 294R, *Mentored Research* (lab)
  - MMBIO 494R, *Advanced Mentored Research* (lab)
  - MMBIO 695R, *Graduate Research* (lab)

San Diego City College: Adjunct Professor in Microbiology (BIOL 205) and Human Genetics (Jan 2013 – May 2014)

- Prepared and present lectures on scheduled material in general Human Genetics (BIOL 205; non-majors) and Microbiology (BIOL 205pre-professional)
- Developed, administered and corrected assignments, labs, and examinations

North Central Texas College: Adjunct Professor in Biology and Microbiology (BIOL 1408, BIOL 2420) (Jan 2011-Dec 2011)

- Prepared and presented lectures on scheduled material in general introductory biology (non-majors) and microbiology (pre-nursing)
- Prepared and corrected assignments, virtual labs, labs, and examinations

UT Southwestern: Lecturer for Introduction to Applied Bioinformatics course (BSCI 5096-02) (Spring 2011)

- Prepared material for lectures including: phylogenetic tree reconstruction, genetic recombination detection, and statistical sequence analyses

UT Southwestern: Lecturer for Virology module of Core Concepts in Molecular Microbiology (MM5481) (Sept 2010)

- Constructed, organized, and presented lecture and exam on RNA virus replication

University of Alabama at Birmingham: Facilitator for UAB-CORD GENEius and BioTeach Laboratories (CB501) (Jun 2008-May 2010)

- Taught each group of students and teachers from underprivileged areas to:
  - Understand basic theories of Molecular Biology
  - Comprehend in-depth molecular causes of disease (HIV, Parkinson's, PCR, and sickle-cell anemia)
  - Perform various Molecular Biology techniques (PCR, western blots, DNA isolation, brain dissection)

Mentoring Experience:

- Brigham Young University
  - Undergraduate Students (average of ~15 students per year)
    1. Ethan Beausoleil
    2. Justin Shanklin
    3. Kennedy Gifford
    4. Tiana Scott
    5. Caroline Jackson
    6. Samuel Jensen
    7. Cassidy Bushnell
    8. Naomi Rapier
    9. Spencer Messina
    10. Vivian Ashton
    11. Curtis Hoffmann
    12. Craig Decker
    13. Ben Hinatsu
    14. Madison Gray
    15. Thomas Armond
    16. Ben Stone
    17. John Krapohl
    18. Allie Beecroft
    19. Stephen Sheffield
    20. Trent Gibson
    21. Makayla Komer
    22. Jacquelyne Howell
    23. Celeste Tolley
    24. Jeffrey Clancy
    25. Mauri Dobbs
    26. Isaac Johnson
    27. Iran Macias Aguilar
    28. Scott Wynn
    29. Landen Bailey
    30. Lexi Brady
    31. Lola Warnick
    32. Juliette Ball
    33. Jacqui Durney
    34. Elise Pickett
    35. Lincoln Sutherland
    36. Mae-Lyn Hutchinson
    37. Cass Cook
    38. Shaney McCain
    39. Thomas Coleman
    40. Jenna Birchall-Poulsen
    41. Michael Told
    42. Zachary DeBernardi
    43. Hirsche Henstrom
    44. Jacob Lang
    45. Izzy Fratangelo

46. Leslie Ewool
47. Abbie Barlocker
48. Maddie Murdrow
49. Sehi Kim
50. Sydney Lish
51. Matthew Jackson
52. Garrett Hill
53. Foxx Naylor
54. Julia Hughes
55. Seth Meline
56. Isaac Baugh
57. Ethan Frank
58. Isabella Irwin
59. Jackson Keele
60. Tyler Pace
61. Matthew Reall
62. Robert Hays
63. Myesha Gilliland
64. Katelynn Barton
65. Joanne Linford
66. Annelise Eldridge

- Undergraduate Summer Interns
  1. Vivian Ashton (BYU-Idaho; Single-cell influenza infection analysis)
  2. Stephen Panossian, undergraduate intern (2018; Analysis of peptide array data for mosquito-borne viral infections in humans)
  3. Emma Roth, undergraduate summer intern (2017; Analytical methods for influenza A virus evolution in a Chilean patient cohort)
- Awards to Undergraduate Mentored Students
  1. College Undergraduate Research Award Funding
     - 2022 = $3600
     - 2021 = $3000
     - 2020 =$3000
  2. MMBIO Department Mentoring Award
     - 2024
     - 2022
     - 2020
  3. Student Poster Awards
     - 2023:
       - 1st place poster, American Society for Microbiology Intermountain Branch meeting
     - 2022
       - 2nd place HBLL Life Sciences Poster Competition
       - 1st place ASM Intermountain Branch Poster Session
  4. Other Student Recognitions
     - 2023
       - Fulbright scholarship recipient (Ben Stone)
       - Oxford University Masters program (Craig Decker)
- Graduate Students (Committee Chair)
  - Naomi Rapier-Sharman (PhD; Jan 2024)
    - Dissertation Title: “Using RNA-Sequencing to Explore Mechanistic Markers, New Therapeutics, and Immune Imbalance: A Study of Cancer and Autoimmunity Through the Lens of Triple Negative Breast Cancer, Systemic Lupus Erythematosus, and B-Cell Non-Hodgkin’s Lymphoma”
  - John Krapohl (MS; Aug 2022)

        - Thesis Title: "Big data meta-analyses of transcriptional responses of human samples to *Orthohantavirus* infection and shotgun metagenomics from Crohn's disease patients"
    - Leslie Ewool (MS; April 2025)
        - Thesis Title: "Annotation and Analysis of Novel Phages from Ant Gut"
    - Charlie Chou (PhD; April 2029)
        - Dissertation Title: "Using Computational Methods to Analyze and Interpret '-Omics' data"
- Graduate Students (Committee Member)
    - Elizabeth Porter (MS)
    - Kyson Jensen (PhD)
    - Ashley Miller (MS)
    - Annalie Martin (PhD)
    - David Redd (MS)
    - Carlos Moreno (MS)
    - Andrea Kokkonen (MS)
    - John Johanson (PhD)
    - Tyler Brown (PhD)
    - Christopher (Topher) Haynie (MS)
    - Mekeli Sneddon (PhD)
    - Kenneth Ewool (PhD)
    - Joshua Ramsey (MS)
    - Steven (Will) Brugger (MS)
    - Travis Davies (PhD)
    - McKay Meinzer (MS)
    - Braden Kartchner (PhD)
    - Sebastian Valencia Amores (PhD)
    - Iqra Farooq (PhD)
    - Brandon Lopez (MS)
    - Maliea Holden (PhD)
    - Aubrey Johansen (PhD)
    - Abraham Quaye (PhD)
    - Lucas Ramirez (MS)
    - Miranda Sharp (MS)
    - Sidney Sithole (PhD)
    - Madison Wagley (MS)
    - Charity Conlin (PhD)
    - Sidney Sithole (PhD)
    - Alexa Carlson (MS)
- Doctoral and Post-Doctoral Trainees at Other Institutions:
    - Madison Gray Farnsworth, PhD committee member (UTMB; 2024 – present)
    - Elizabeth Gachanja, PhD committee member (2018-2020)
    - Pilar Viedma, postdoctoral fellow and staff scientist (2017-2020)

Professional Honors and Awards:

- BYU Inspiring Learning Award (April 2021)
- UAB Department of Microbiology Hiramoto Travel Awardee (Jul 2009)
- T32 NIH Training Grant for Basic Mechanisms of Virology, 5T32AI007150-29 (Jun 2007-Aug 2008)
- Recipient Cold Spring Harbor Laboratory Student Travel Award (Nov 2007)

Other Honors and Awards:

- Honorable completion of religious mission to Dominican Republic (Jul 2000-Jun 2002)
- Eagle Scout, Boy Scouts of America (Jun 1995)

Internal Committee Assignments

- Chair, Department Undergraduate Curriculum Committee (2023-present)
- Member, College Scholarship Committee (2023-present)
- Faculty co-advisor, BioHive Student Academic Association (2025-present)
- Faculty advisor, Operation Outbreak Student Academic Association (2020-present)
- Member, Undergraduate Curriculum Committee, BYU (2019-present)
- Chair, Departmental Scientific Review Committee, BYU (2019-present)
- Member, College Molecular/Cellular/Genetics Curriculum Committee (2024-2025)
- Member, College IT Advisory Committee (2023-2025)
- Member, College Genetics/Genomics/Molecular Biology Committee (2020-2023)

Professional Service

- ASM Intermountain Branch President (2023-2024)
- ASM Intermountain Branch President-Elect (2022-2023)
- ASM Intermountain Branch Treasurer (2021-2022)
- Smithsonian National Museum of Natural History docent for *Outbreak* exhibit (2018-2019)
- J. Craig Venter Institute External Seminar Committee Member (2016-2018)
- UT Southwestern Postdoctoral Association Symposium Subcommittee co-chair of committee (Apr 2011 – May 2012), member (Aug 2010 – May 2012),
- UT Southwestern Postdoctoral Career Development Subcommittee member (Nov 2010 – May 2012)
- Vice President and member of Board of Directors for UAB Scientists and Engineers for America chapter (Jun 2009- May 2010)
- Chairperson mentor of UAB Industry Roundtable (Aug 2008-Aug 2009)
- Co-chairperson of UAB Industry Roundtable (April 2007-Aug 2008)
- Member of the UAB Industry Roundtable Planning Committee (2005-2010)
- Author for UAB's Graduate Student Newsletter (2009)

Ad Hoc Peer Reviewer:

- *BMC Bioinformatics* (2022-present)
- *Nucleic Acids Research* (2022-present)
- ASM *mBio* (2021-present)

- ASM *mSystems* (2021-present)
- *Biostatistics & Epidemiology* (2020-present)
- *Gigascience* (2020-present)
- *Virology Journal* (2010-present)
- Research Grants Council (2014-present)
- NIH study section: Rapid Assessment of Zika Virus Complications (2016)
- *BMC Microbiology* (2016-present)
- *PLoS Neglected Tropical Diseases* (2017-present)
- *Computational Biology and Chemistry* (2018-present)
- *Virus Research* (2018-present)
- *Viruses* (2018-present)

Editorial Board Memberships:

- Editorial Board Member, *Frontiers in RNA Research* (2022-present)
- Editorial Board Member, *Genes* (2022-2024)
- Editorial Board Member, *PeerJ* (2019-present)

Additional Skills:

- Computer programming
    - Proficient with programming in R
    - Experience with Docker, Conda, Java, perl, python, mySQL, and Oracle
    - Slurm-based high-performance computing environments

Memberships:

- World Society of Virology (2021-present)
- American Society for Microbiology (2017-present)
- European Virus Bioinformatics Center (2017-present)
- American Society for Virology (2009-present)
- Sigma Delta Pi (2004-present)
- UAB chapter of Scientists and Engineers for America (2009-2010)

Professional Development:

- Summer of Nanopore Sequencing Workshop (Salt Lake City, Utah 2024)
- Virus Evolution and Molecular Evolution (Berlin, Germany 2018)
- GABRIEL Network: Applications of Genomics & Bioinformatics to Infectious Diseases (Lyon, France 2017)
- Hamilton Robotics: Programming Course (La Jolla, CA 2017)
- Immune Epitope Database: User Workshop (La Jolla, CA 2016)
- San Diego SuperComputer Center: 1st Workshop on bioKepler Tools and its Applications (San Diego, CA, 2012)
- Texas Advanced Computing Center Workshop: High Performance Computing for Next-Generation Sequence Analysis (Austin, TX, 2011)
- First Annual NSF-funded Short Course on Statistical Genetics & Statistical Genomics (Birmingham, AL, 2008)

Meetings Attended:

- Annual American Society for Microbiology Intermountain Branch Meeting (Provo, UT, 2024)
- Annual HHMI Science Education Alliance-Phage Hunters Advancing Genomics and Evolutionary Science Program Meeting (Chevy Chase, MD, 2023)
- Annual American Society for Microbiology Intermountain Branch Meeting (Provo, UT, 2023)
- Annual American Society for Microbiology Intermountain Branch Meeting (Boise, ID, 2023)
- 41st Annual American Society for Virology meeting (Madison, Wisconsin 2022)
- Annual American Society for Microbiology Intermountain Branch Meeting (Provo, UT, 2022)
- Annual American Society for Microbiology Intermountain Branch Meeting (Virtual / Ogden, UT, 2021)
- Annual American Mosquito Control Association Meeting (Virtual / Salt Lake City, UT, 2021)
- 20th Annual American Society for Microbiology Regional Meeting (Weber State University, 2020)
- 37th Annual American Society for Virology meeting (College Park, Maryland, 2018)
- 2nd Annual European Virus Bioinformatics Center meeting (Utrecht, Netherlands, 2018)
- 36th Annual American Society for Virology meeting (Madison, Wisconsin, 2017)
- 19th Genomic Standards Consortium meeting (Brisbane, Australia, 2017)
- Molecular Medicine Tri Conference (San Francisco, CA, 2015)
- 38th Annual International Herpesvirus Workshop (Grand Rapids, MI, 2013)
- 37th Annual International Herpesvirus Workshop (Calgary, Alberta, Canada, 2012)
- 6th Annual NIAID Centers of Excellence for Influenza Research and Surveillance (CEIRS) Network Meeting (New York, NY, 2012)
- 31st American Society for Virology Annual Meeting (Madison, Wisconsin, 2012)
- XV International Union of Microbiological Societies, Congress of Virology Meeting. (Sapporo, Japan, 2011)
- 30th American Society for Virology Annual Meeting (Minneapolis, Minnesota, 2011)
- A Re-Emerging Challenge in the Americas: Opportunities for Dengue Research Collaboration Meeting (San Juan, Puerto Rico, 2011)
- 9th Annual ASM Biodefense and Emerging Diseases Research Meeting (Washington D.C. 2011)
- 29th American Society for Virology Annual Meeting (Bozeman, Montana, 2010)
- 28th American Society for Virology Annual Meeting (Vancouver, Canada, 2009)
- 15th Annual International Symposium on Hepatitis C Virus and Related Viruses (San Antonio, TX, 2008)
- 7th Cold Spring Harbor Laboratory/Wellcome Trust conference on Genome Informatics (Cold Spring Harbor, NY, 2007)
- 8th International Symposium on Positive-Strand RNA Viruses (Washington DC, 2007)
- 9th Annual Conference for Computational Genomics (Baltimore, MD, 2006).

- 53rd Annual ASM Regional Meeting (Ogden, UT, 2005)

Invited Oral Presentations:

1. ➢*Combining Large Datasets to Better Understand Human Diseases.* BYU-Idaho Biology Department Seminar Series. Rexburg, ID; May, 2023.
2. ➢*Career Paths, Experiences, and Research in Science*. American Society for Microbiology Intermountain Branch Meeting. Provo, UT; April, 2023.
3. ➢*Data Mining Methods to Facilitate Identification of Emerging Pathogenic Traits in Human Infectious Diseases.* Emerging Infectious Disease Surveillance Workshop. McLean, VA; April, 2022 .
4. ➢*Using Bioinformatics to Better Understand Molecular Mechanisms of Cancer*. Simmons Center for Cancer Research Weekly Seminar Series. May, 2021.
5. ➢*Using a simulated campus SARS-CoV-2 outbreak to inform better decision making*. MMBIO Department Weekly Seminar. Provo, UT, 2021.
6. ➢*Developing a peptide-based diagnostic platform to detect past infection with mosquito-borne viruses using human convalescent serum*. Annual American Mosquito Control Association Meeting; Salt Lake City, UT, 2021.
7. *Reference-based assembly and variant calling in NGS data*. Virus Evolution and Molecular Epidemiology; Berlin, Germany, 2018.
8. *Genome Sequencing, serodiagnostics, and the intracellular host response: making sense of –omics data for Zika virus*. European Virus Bioinformatics Center; Utrecht, Netherlands, 2018.
9. *Applications of next generation sequencing technologies to viral infectious diseases*. GABRIEL Network; Fondation Merieux; Lyon, France, 2017.
10. *Next generation sequencing technologies for host response*. GABRIEL Network; Fondation Merieux; Lyon, France, 2017.
11. *Molecular Evolution of Viral Genomes and the Host Response*. Dept of Biology; Brigham Young University; Provo, UT, 2014.
12. *Using siRNA Screens to Identify Host Genes Important for Dengue Virus Replication*. Dept of Microbiology and Molecular Biology; Brigham Young University; Provo, UT, 2014.
13. *Introduction to the Metadata-driven Comparative Analysis Tool for Sequences (meta-CATS)*. Dept of Microbiology and Molecular Biology; Brigham Young University; Provo, UT, 2013.
14. Influenza Research Database / Virus Pathogen Resource Hands-on Workshop at annual Pork Board Meeting. US Dept of Agriculture; Ames, IA, 2013.
15. Influenza Research Database / Virus Pathogen Resource Hands-on Workshop. Emory University. October 5, 2012.
16. Features and Capabilities of the Virus Pathogen Database and Analysis Resource (ViPR). Purdue University. September 7, 2011.

➢Since starting at BYU

Oral Presentations:

1. ➢**Pickett BE**. *Using Protein-Protein Interaction "Threads" to Improve Mechanistic Understanding of Intracellular Signaling.* Utah Cancer Research Symposium. Provo, Utah. August, 2025.

2. ➢**Pickett BE**. Performing Comparative Genomic Analyses of Phage Genomes to Better Understand Diversity. Jiwaji University Study Abroad Research Conference. Gwalior, Madhya Pradesh India. August, 2025.
3. ➢**Pickett BE**. *Secondary Analysis of Triple Negative Breast Cancer Reveals ASPM and RGS1 as Positive Universal TNBC Biomarkers*. 1st Annual Utah Cancer Research Symposium. Salt Lake City, UT. May, 2024.
4. ➢Rapier-Sharman N+, Kim S†, Mudrow M†, Told MT†, Cope L+, O'Neill KL, **Pickett BE**. *Transcriptomic immuno-oncology investigation of B-cell lymphomas using a novel comparative workflow*. American Society for Microbiology Intermountain Branch Annual Meeting. Provo, UT. April, 2024.
5. ➢Clancy J†, Hoffmann C†, **Pickett BE**. *Prediction of Human Transcriptional Biomarkers for Severe Infection with SARS-CoV-2.* American Society for Virology annual meeting. Madison, WI. July 16-20, 2022.
6. ➢Gray M†, Ahlborn G, **Pickett BE**. *Quantifying the Effects of Potential Small Molecule CHIKV Therapeutics in Human Macrophage Cells.* American Society for Virology annual meeting. Madison, WI. July 16-20, 2022.
7. ➢Gray M†, Ahlborn G, **Pickett BE**. *Quantifying the Effects of Potential CHIKV Therapeutics in Human Macrophage Cells*. American Society for Microbiology Intermountain Branch Annual Meeting. Ogden, UT (virtual). December, 2021.
8. ➢Moreno C+, Whitley K+, Freitas C, **Pickett BE**, Weber KS. *CD5 signaling inhibits the transcription of metabolic enzymes and metabolite transporters at the transcriptomic level*. Autumn Immunology Conference 49th Annual Meeting. Chicago, IL. November, 2021.
9. ➢Rapier-Sharman NL+, **Pickett BE**. *A Transcriptomic Meta-Analysis of B-cell Lymphomas*. 2nd International Webinar on Cancer Research and Oncology Aug 2021.
10. ➢Gray M†, Guerrero-Arguero I+, Solis Leal A+, Robison RA, Berges BA, **Pickett BE**. *Chikungunya Virus Time Course Infection of Human Macrophages.* American Society for Virology. July, 2021.
11. ➢Jackson CA†, Scott TM†, Howell J†, Tan GS, Lowen A, **Pickett BE**. *A single-cell bioinformatics analysis of the host transcriptional response to infection consisting of natural combinations of influenza A virus gene segments.* American Society for Virology. July, 2021.
12. ➢Scott TM†, Jensen S†, **Pickett BE**. *A signaling pathway-driven bioinformatics pipeline for predicting therapeutics against emerging infectious diseases.* American Society for Virology. Virtual Meeting. July, 2021.
13. ➢Gray M†, Guerrero-Arguero I+, Solis Leal A+, Robison RA, Berges BA, **Pickett BE**. *Chikungunya Virus Time Course Infection of Human Macrophages.* World Society for Virology Annual Conference (virtual). June, 2021.
14. ➢Gifford K†, **Pickett BE**. *A Cell Under Siege: the Mechanisms of Streptococcus Pneumoniae Infection.* BYU College of Physical and Mathematical Sciences - Student Research Conference. Provo, UT. February 2021.
15. ➢Scott TM†, Jensen S†, **Pickett BE**. *A Signaling Pathway-Driven Bioinformatics Pipeline for Predicting Therapeutics against Emerging Infectious Diseases*. American Society for Microbiology Intermountain Branch Meeting. December, 2020

16. ➢Gray M[†], **Pickett BE**. *Chikungunya Virus Time Course Infection of Human Macrophages.* American Society for Microbiology Intermountain Branch Meeting. December, 2020.
17. ➢Grose, JH, Downey JL[†], Griffin BT[†], Jensen AR[†], Ludwig A[†], Spencer JB[†], Scott TM[†], Vander Werff KS[†], **Pickett BE**, Breakwell DP. *Comparative Genomic Analysis of Microbacterium foliorum Cluster EE phages*. Intermountain Branch American Society for Microbiology. Ogden, UT. December, 2020.
18. ➢Ferrarini MG, Lal A, Rebollo R, Gruber A, Guarracino A, Martinez-Gonzalez I, Floyd T, Siqueira de Oliveira D, Pusa T, **Pickett BE**, Aguiar-Pulido V. *Genome-wide Bioinformatic Analyses Predict Key Host and Viral Factors in SARS-CoV-2 Pathogenesis.* Cold Spring Harbor Laboratory COVID/SARS CoV2 Rapid Research Reports #3. Cold Spring Harbor, NY (Virtual). August 25-26, 2020.
19. ➢Gifford K[†], **Pickett BE**. *Understanding the Mechanisms of Streptococcus Pneumoniae Infection.* BYU College of Physical and Mathematical Sciences - Student Research Conference. Provo, UT. February 29, 2020.
20. **Pickett BE**. *Identification and Validation of Diagnostic Peptides to Differentiate Serum Antibody Patterns Between Zika and Other Mosquito-Borne Viruses*. 37th Annual American Society for Virology meeting. College Park, Maryland. July 14-18, 2018.
21. **Pickett BE**. *Deep-sequencing Analysis of coding-complete Zika virus genomes.* 36th Annual American Society for Virology meeting. Madison, Wisconsin. June 24-28, 2017.
22. **Pickett BE**. *Peptide array technology: an opportunity for standardization*. 19th Genomic Standards Consortium meeting. Brisbane, Queensland, Australia. May 15-17, 2017 .
23. **Pickett BE**, Zhang Y, Scheuermann R**.** *ViPR Resource Workshop*. 37th Annual International Herpesvirus Workshop. Calgary, Alberta, Canada. August 4-9, 2012.
24. **Pickett BE**, Schmidt D, Camacho D, Comach G, Bosch I, Lefkowitz EJ. *Analysis of Dengue Type 3 Sequences from Two Venezuelan Outbreaks*. 29th American Society for Virology Annual Meeting. Bozeman, Montana. July 17-21, 2010.
25. **Pickett BE**, Lefkowitz EJ. *Separating HCV genotype 1a into 2 clades and implications for drug resistance*. University of Alabama at Birmingham Virology Discussion Group. Birmingham, Alabama. November 7, 2008.
26. **Pickett BE**, Lefkowitz EJ. *CovarView—A program for visual display of genome-wide covariance analyses.* 7th Cold Spring Harbor Laboratory/Wellcome Trust conference on Genome Informatics. Cold Spring Harbor, New York. November 1-5, 2007.
27. **Pickett BE**, Breakwell DP. *Antibiotic Resistance Gene Cassettes Associated With Integrons in Escherichia coli*. 53rd Annual meeting of the American Society for Microbiology regional meeting. Weber State University, Ogden, Utah. March 12th, 2005.

➢Since starting at BYU; [†]BYU undergraduate student; [+]BYU graduate student

Poster Presentations:

1. ➢Chou A[+], Arroyo J, **Pickett BE**. De novo reconstruction of intra-cellular signaling paths from bulk RNA-seq with LLM literature screening; the case of smoke-induced preeclampsia. Association for Computing Machinery Conference on Bioinformatics,

Computational Biology, and Health Informatics (ACM-BMB). Philadelphia, PA. October, 2025.

2. ➢Chou A[+], Davidson B[†], Reynolds PR, **Pickett BE**, Arroyo JA. Reversing Preeclampsia Pathology: AXL Inhibition Restores Mitochondrial Function and ECM Balance. Microbiology and Molecular Biology Department Graduate Retreat. August, 2025.
3. ➢Sithole S[+], Ramsey J[+], Ogilvie M[†], **Pickett BE**, Poole BD, Berges B. The role of Bcl-2 in HIV-1 *vpr* R77Q-induced apoptosis. American Society for Virology Annual Meeting. Montreal, Canada. June, 2025.
4. ➢Van Oostendorp B[†], Harrell CC[†], Johnson AM[†], Longhurst JS[†], Danielson PC[†], Olsen NA[†], Berquist JT[†], Stohl TD[†], Tower SP[†], Breakwell DP, **Pickett BE**. Bigger, Phatter, More Audacious Phage Project. American Society for Microbiology Intermountain Branch Annual Meeting. Pocatello, ID. April, 2025.
5. ➢O'Keefe BE[†], Hunsaker ZM[†], Huff AJ[†], Johnson AM[†], Danielson PC, [†] Longhurst JS[†], Olsen NA[†], Harrell CC[†], Van Oostendorp B[†], Breakwell DP, **Pickett BE**. Characterizing Two E Cluster Phages with Putative Proteins. American Society for Microbiology Intermountain Branch Annual Meeting. Pocatello, ID. April, 2025.
6. ➢Ayedelotte LF[†], Barton K[†], Bunkall LT[†], Chase BN[†], Hillman MR[†], McGuire EN[†], Lyons L[†], Reall ME[†], Danielson PC[†], Harrell CC[†], Johnson AM[†], Longhurst JS[†], Olsen NA[†], Van Oostendorp B[†], Breakwell DP, **Pickett BE**. Genomic Variation Among Five A1 Subcluster Phages. American Society for Microbiology Intermountain Branch Annual Meeting. Pocatello, ID. April, 2025.
7. ➢Williams JW[†], Waid BB[†], Hemmert DA[†], Harris JR II[†], Danielson PC[†], Harrell CC[†], Johnson AM[†], Longhurst JS[†], Olsen NA[†], Van Oostendorp B[†], Breakwell DP, **Pickett BE**. American Society for Microbiology Intermountain Branch Annual Meeting. Pocatello, ID. April, 2025.
8. ➢Jeppson AL[†], Danielson PC[†], Harrell CC[†], Johnson AM[†], Longhurst JS[†], Olsen NA[†], Van Oostendorp B[†], Breakwell DP, **Pickett BE**. Comparative genomic analysis of F2 subcluster bacteriophages including recently isolated *SilverChicken.* American Society for Microbiology Intermountain Branch Annual Meeting. Pocatello, ID. April, 2025.
9. ➢Jackson I, Danielson PC[†], Harrell CC[†], Johnson AM[†], Longhurst JS[†], Olsen NA[†], Van Oostendorp B[†], Breakwell DP, **Pickett BE**. Caught in 4K: The Characterization of phage Bobqeusha. American Society for Microbiology Intermountain Branch Annual Meeting. Pocatello, ID. April, 2025.
10. ➢Barton K, Burrows A, Guinn CR, Harkness JK, Howard MH, Jenson EA, McGuire EN, Danielson PC[†], Harrell CC[†], Johnson AM[†], Longhurst JS[†], Olsen NA[†], Van Oostendorp B[†], Breakwell DP, **Pickett BE**. Phormula Phage: The Race to Unravel the F1 Subcluster. American Society for Microbiology Intermountain Branch Annual Meeting. Pocatello, ID. April, 2025.
11. ➢McGee B, Atkinson A, Cheshire J, Checketts J, Payne SH, **Pickett BE**. Assessing Potential Predictors of Phage-Host Specificity. MidSouth Computational Biology and Bioinformatics Society (MCBIOS) Annual Meeting. Salt Lake City, UT. March 2025.
12. ➢Fears Z[†], **Pickett BE**. Presence of Differing Influenza Virus Segments affects Intracellular RNA Expression Dysregulation. Utah Conference for Undergraduate Research (UCUR). Cedar City, UT. Feb 2025.

13. ➢Armond T†, Coleman T†, **Pickett BE**. Characterizing Sequence Variation and Selection Pressure: Insights on Evolution of E. coli-infecting Bacteriophages. Utah Conference for Undergraduate Research (UCUR). Cedar City, UT. Feb 2025.
14. ➢Kim S†, Rapier-Sharman N+, Told MT†, O'Neill KL, **Pickett BE**. Comparative transcriptomic analysis reveals novel insights into targetable B-cell lymphoma mechanisms. American Association for Cancer Research Annual Meeting. San Diego, CA. April, 2024.
15. ➢Rapier-Sharman N+, Kim S†, Mudrow M†, Told MT†, Cope L+, O'Neill KL, **Pickett BE**. Transcriptomic immuno-oncology investigation of B-cell lymphomas using a novel comparative workflow. American Association for Cancer Research Annual Meeting. San Diego, CA. April, 2024.
16. ➢Henstrom H†, Rapier-Sharman N+, Sheffield SW†, Hinatsu BR†, Armond T†, Gibson TM†, Mudrow M†, Sheffield P, Tittensor J, **Pickett BE**. Lifestyle Modification Class Principles applied to Breast Cancer recovery patients. American Society for Microbiology Intermountain Branch Annual Meeting. Provo, UT. April, 2024.
17. ➢Mudrow M†, Rapier-Sharman N+, Kim S†, Told MT†, Poole BD, **Pickett BE**. Transcriptomic Analysis of SLE and Healthy B-Cell RNA-Sequencing Data Reveals Novel Differentially Expressed Genes and Biomarkers. American Society for Microbiology Intermountain Branch Annual Meeting. Provo, UT. April, 2024.
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➢Since starting at BYU; †BYU undergraduate student; +BYU graduate student

Intellectual Property:

1. ➢U.S. Patent Application: "IMMUNE IMBALANCE TRANSCRIPTOMICS ALGORITHM FOR COMPARISON OF SHARED AND OPPOSITE MECHANISMS OF CANCER AND AUTOIMMUNE DISEASE". Serial No.: 63/631,158. Submission date: April 8, 2024.
2. ➢U.S. Patent Application: "PRIORITIZING AND REPURPOSING DISEASE-SPECIFIC DRUG TARGETS (AND THERAPEUTICS) USING SIGNALING PATHWAY PROFILES AND PUBLICLY AVAILABLE TARGET ATTRIBUTES". Serial No.: 63/612,170. Submission date: Dec 19, 2023.
3. ➢U.S. Patent Application: "3D PRINTING FOR SELECTIVE CAPTURE OF NUCLEIC ACID BIOMARKERS WITH SUBSEQUENT FLUORESCENCE LABELING AND DETECTION". Serial No.: 63/542,126. Submission date: October 3, 2023.
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1. ➢Chou A+, Frank E†, Reall M†, Hiatt O†, Beck L†, Reynolds PR, **Pickett BE**, Arroyo JA. Secondhand Smoke Exposure Timing Triggers Distinct Placental Responses in Mouse Pregnancy. Cells. 2025 Nov 5;14(21):1735. doi: 10.3390/cells14211735. PMID: 41227380.
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6. ➢Aggabao SM†, Hassell R†, Leary BS†, Bautista SI†, Chamberlain HH†, Radke K†, Peless HM 4th†, Danielson PC†, Jackson MN†, Hwang H†, Scott JD†, Correa Lazaro EA†, Bogh AB†, Longhurst JS†, Payne ST†, Danielson P†, Olsen NA†, Harrell CC†, Johnson AM†, Wilhite T†, Schachterle JK, Avery S, Breakwell DP, **Pickett BE**. *Complete genome sequences of Mycobacterium smegmatis mc^{2}155 cluster E bacteriophages Policronamos and Palpatine.* Microbiol Resour Announc. 2025 Jul 23:e0039225. doi: 10.1128/mra.00392-25. PMID: 40698953. [Impact Factor: 0.7; Contributions: Methodology, Analysis, Writing, Supervision].
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8. ➢Payne ST†, Longhurst JS†, Correa Lazaro EA†, Jackson MN†, Scott JD†, Daines SB†, Brink CB†, Chamberlain HH†, Gwilliam JD†, Higgins G†, Domike MD†, Moffat RE†, Larson AR†, Danielson PC†, Hwang H†, Aggabao SM†, Peless HM 4th†, Bogh AB†, Radke K†, Van Oostendorp B†, Harrell CC†, Johnson AM†, Olsen NA†, Danielson P†, Wilhite T†, Schachterle JK, Avery S, Breakwell DP, **Pickett BE**. *Genome sequences of four A1 subcluster Mycobacterium smegmatis bacteriophages*. Microbiol Resour Announc. 2025 Mar 25:e0133124. doi: 10.1128/mra.01331-24. PMID: 40130901. [Impact Factor: 0.7; Contributions: Methodology, Analysis, Writing, Supervision].
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➢Since starting at BYU; [†]BYU undergraduate student; [+]BYU graduate student

Ongoing Funding Support

Role: Co-Principal Investigator
Title: A Novel Biorational Approach to Curing Honey Bees of Public Enemy Number One (2152247)
Dates: September 2023 – April 2025
Sponsor: National Science Foundation
Amount: $274,000

Completed Funding Support:

Role: Principal Investigator
Title: Computational analysis of human transcriptomic data to predict host drug targets that reverse disease phenotypes.
Dates: November 2019 – November 2022
Sponsor: BYU-College of Life Sciences, new faculty startup funding
Amount: $60,000

Role: Principal Investigator
Title: Predicting Influenza Vaccine Strains
Dates: Dec 1, 2012-Nov 30, 2016
Sponsor: Synthetic Genomics Vaccines, Inc.
Amount: $746,061

Role: Principal Investigator
Title: Influenza Curation Project
Dates: 01/15/2017 - 02/28/2017
Sponsor: Private funding
Amount: $28,669

Role: Investigator
Title: Development of a Universal Rhinovirus Vaccine
Dates: 06/01/14-11/01/17
Sponsor: GlaxoSmithKline
Amount: $2,683,500

Role: Principal Investigator
Title: Implementation of an Influenza HA Sequence to Structure to Function Computational Workflow
Dates: 08/28/2017 – 12/31/2017
Sponsor: Sanofi Pasteur
Amount: $137,107

Role: Principal Investigator
Title: A Protein-Based Method to Distinguish Seroprevalence in Humans for Multiple Mosquito-Borne Flaviviruses
Dates: Oct 1, 2016 - Dec 31, 2018
Sponsor: United States Agency for International Development ("Combating Zika and Future Threats" Grand Challenge for Development)
Amount: $450,670

Role: Co-Investigator
Title: Bioinformatics Resource Centers for Infectious Disease – Viral (HHSN272201400028C)
Dates: 07/01/14-06/30/19
Sponsor: National Institute of Allergy and Infectious Diseases
Amount: $7,302,405

Role: Co-Project Director
Title: The J. Craig Venter Institute Genome Center for Infectious Diseases (U19AI110819)
Dates: 04/01/14-03/31/19
Sponsor: National Institute of Allergy and Infectious Diseases
Amount: $28,288,353