

Gregory P. Krukonis

Department of Biology
ASU Station #10890
Angelo State University San
Angelo, TX 76909
gkrukonis@angelo.edu

PROFESSIONAL EMPLOYMENT AND EDUCATION

2017-Present: Assistant Professor, Department of Biology, Angelo State University

2015-2016: Visiting Assistant Professor, Department of Biology, Bucknell University

2009-2015: Visiting Assistant Professor, Department of Biology, Gettysburg College

2008: Adjunct Professor, Department of Biology, Lewis and Clark College

2004: Adjunct Professor, Department of Biology, Lewis and Clark College

2002-2003: Postdoctoral Research Associate, Department of Biology, Stanford University

1995-2002: Postdoctoral Research Associate, Department of Biology, Wesleyan University

1994: Ph.D. Ecology and Evolutionary Biology, University of Arizona.

Dissertation Title: "Diversity of naturally occurring bacteriophages of *Bacillus subtilis* and their interactions with their hosts" (Conrad Istock, Advisor).

1984: A.B. Biology. University of Pennsylvania.

TEACHING

Angelo State University

Principles of Biology I - lecture and laboratory.
Principles of Biology II - lecture and laboratory.

Ecology, Evolution, and Molecular Biology of Viruses - lecture
Graduate Seminar in Biology - seminar
Man and the Environment, non-majors - lecture

CURE (Course-Based Undergraduate Research Experience) courses:
Bioinformatics – lecture and laboratory

Course Coordinator for Principles of Biology I

Bucknell University:

Genetics – lecture.

CURE (Course-Based Undergraduate Research Experience) courses:
Phage Hunters II – lecture and laboratory.
Molecular Biology – lecture and laboratory.

Gettysburg College

Genetics - lecture and laboratory.
Cell Biology – laboratory.
Ecology, Evolution, and Molecular Biology of Viruses – lecture and laboratory.
Evolutionary Medicine – lecture.
Introduction to Cells and Molecules, non-majors – lecture.
Biological Basis of Diseases – non-majors – lecture.

CURE (Course-Based Undergraduate Research Experience) courses:
Introduction to Phage Biology - lecture and laboratory.
Phage Genomics - lecture and laboratory.

Lewis and Clark College

Ecology, Evolution, and Molecular Biology of Viruses – lecture.
Perspectives in Biology, non-majors -- lecture and laboratory.

Teaching Awards

2020 Nominated for the Gary and Pat Rodgers Distinguished Faculty Award,
Angelo State University.

Pedagogical presentations/posters

Delesalle, V.A. and G.P. Krukonis. 2015. A bridge for everyone: fostering community and the life of the mind with course based research experiences. Poster at HHMI Constellation Studio “Promoting Persistence and Success: Adapting Promising Practices and Promoting Institutional Change” HHMI Headquarters, Chevy Chase, MD.

PUBLICATIONS

Publications - Peer Reviewed

Magness L.H., V.A. Delesalle, A.C. Vill, M.S. Strine, B.E. Chaudhry, K.B. Lichty, A.A. Guffey, J.M. DeCurzio, and G.P. Krukonis. 2023. *Bacillus subtilis* phages related to SIOphi from desert soils of the Southwest United States. PHAGE <http://doi.org/10.1089/phage.2023.0021>

Vill, A.C., V.A. Delesalle, L.H. Magness, B. E. Chaudhry, K.B. Lichty , M.S. Strine, A.A. Guffey, J.M. DeCurzio, G.P. Krukonis. 2023. Comparative genomics of *Bacillus subtilis* phages related to phiNIT1 from desert soils of the Southwest United States. PHAGE <https://doi.org/10.1089/phage.2023.0027>

Rachel E. Loney, Véronique A. Delesalle, Brianne E. Chaudry, Megan Czerpak, Alexandra A. Guffey, Leo Goubet-McCall, Michael McCarty, Madison S. Strine, Natalie T. Tanke, Albert C. Vill, Greg P. Krukonis. 2023. A novel subcluster of closely related *Bacillus* phages with distinct tail fiber/lysin gene combinations. *Viruses*. Nov 17;15(11):2267. doi: 10.3390/v15112267. PMID: 38005943; PMCID: PMC10674732.

Catherine A. Hernandez, Véronique A. Delesalle, Greg Krukonis, Jenna DeCurzio, Britt Koskella. 2023. Genomic and phenotypic signatures of bacteriophage coevolution with the phytopathogen *Pseudomonas syringae*. *Molecular Ecology*. <https://doi.org/10.1111/mec.16850>

Véronique A. Delesalle , Brianne E. Tomko, Albert C. Vill, Katherine Boas, Greg P. Krukonis. 2022. Forty years without family: Three novel bacteriophages with high similarity to SPP1 reveal decades of evolutionary stasis since the isolation of their famous relative. *Viruses*, 14, 2106. <https://doi.org/10.3390/v14102106>

Albert C. Vill, Véronique A. Delesalle, Brianne E. Tomko, Katherine B. Lichty, Madison S. Strine, Alexandra A. Guffey, Elizabeth A. Burton, Natalie T.

Tanke, and Greg P. Krukonis. 2022 Comparative genomics of six lytic *Bacillus subtilis* phages from the Southwest United States. PHAGE: Therapy, Applications, and Research 3:3, 171-178

Krukonis, Greg P., Katie F. Storrie, A. K. Kemp, Vivian R. Chavira, Hayden W. Lantrip, Victoria D. Perez, Desiree A. Reyes, Julian A. Truax, Rachel Loney, and Véronique A. Delesalle. 2022. Complete Genome Sequence of two temperate *Bacillus subtilis* phages collected from the Desert Laboratory on Tumamoc Hill. Microbial Resour Announc.
<https://doi.org/10.1128/mra.00455-22>

Krukonis GP, Roth SJ, Delesalle VA. 2021. Complete genome sequences of four phages of the horse chestnut phyllosphere. Microbiol Resour Announc 10:e00821-21. <https://doi.org/10.1128/MRA.00821-21>.

Roth SJ, Krukonis GP, Delesalle VA. 2021. Complete genome sequence of the *Pantoea* phage AH07. Microbiol Resour Announc 10:e00819-21.
<https://doi.org/10.1128/MRA.00819-21>

Krukonis GP, Roth SJ, Delesalle VA. 2021. Genome sequences of *Erwinia* phyllophages AH04 and AH06. Microbiol Resour Announc 10:e00820-21.
<https://doi.org/10.1128/MRA.00820-21>.

Klyczek K., D. Jacobs-Sera, T. Adair, S. Adams, S. Ball, R. Benjamin, J. Bonilla, C. Breitenberger, C. Daniels, B. Gaffney, M. Harrison, L. Hughes, R. King, G. Krukonis, A. Lopez, K. Monsen-Collar, M. Pizzorno, C. Rinehart, SEAPHAGES, PHIRE Program, A. Staples, E. Stowe, R. Garlena, D. Russell, S. Cresawn, W. Pope, and G. Hatfull. 2018. Complete Genome Sequences of 44 Arthrobacter Phages. Genome announcements, 6(5), e01474-17. doi:10.1128/genomeA.01474-17

Adair, T. L., Stowe, E., Pizzorno, M. C., Krukonis, G., Harrison, M., Baylor University SEA-PHAGES. Hatfull, G. F. 2017. Genome Sequences of Three Cluster AU Arthrobacter Phages, Caterpillar, Nightmare, and Teacup. 2017. Genome announcements, 5(45), e01121-17.
doi:10.1128/genomeA.01121-17

Bollivar, D., Bernardoni, B., Bockman, M., Miller, B., Russell, D., Delesalle, V., Krukonis, G., Hatfull, G., Cross, M., Szewczyk, M. and A. Eppurath. 2016. The complete genome sequence of five bacteriophages that infect *Rhodobacter capsulatus*. Genome Announcements 4(3): e00051-16.
doi:10.1128/genomeA.00051-16.

Delesalle, V.A., N.T. Tanke, A.C. Vill, and G.P. Krukonis. 2016. Testing hypotheses for the presence of tRNA genes in mycobacteriophage genomes. *Bacteriophage*, 6:3, e1219441 DOI: 10.1080/21597081.2016.1219441.

Cresawn, S.G. et al., 2015. Comparative Genomics of Cluster O mycobacteriophages. *PLOS One* 10(3): e0118725.

Pope, W.H. et al., 2014. Cluster M mycobacteriophages Bongo, Peg Leg, and Rey with unusually large repertoires of tRNA isotypes. *Journal of Virology* 88:2461-2480.

Sacks, F. M. and Krukonis, G. P. 1996. The influence of apolipoprotein E on the interactions between normal human very low density lipoproteins and U937 human macrophages: heterogeneity among persons. *Vascular Medicine*. 1:9-18

Krukonis, G. P. and W. M. Schaffer. 1991. Population cycles in mammals and birds: does periodicity scale with body size? *Jour. Theor. Biol.* 148:469493.

Manuscripts in Review

Books

Krukonis, Greg and Tracy Barr. 2008. *Evolution for Dummies*. Wiley Publishing Inc, Indianapolis.

Other Publications

Krukonis, G. P. and S. Schwinning. 1990. Review of Perspectives in Ecological Theory (J. Roughgarden, R. M. May and S. A. Levin) *Bull. Math. Biol.* 52:705-6.

Publications - Peer Reviewed, as member of the Howard Hughes Medical Institute Science Education Alliance Phage Hunters Advancing Genomics and Evolutionary Science (SEA-PHAGES) program.

Hanauer, D.I. et al. 2017. An Inclusive Research-Education Community (iREC): A model for student engagement in science. *PNAS December 19, 2017, vol. 114 no. 51 13531-13536.*

Pope, W.H. et al. 2015. Whole genome comparison of a large collection of mycobacteriophages reveals a continuum of phage genetic diversity. eLIFE. doi: 10.7554/eLife.06416.

Hatfull, G. F., 2013 Science Education Alliance Phage Hunters Advancing Genomics and Evolutionary Science (SEA-PHAGES) program, KwaZuluNatal Research Institute for Tuberculosis and HIV (K-RITH) Mycobacterial Genetics Course, University of California Los Angeles Research Immersion Laboratory in Virology, Phage Hunters Integrating Research and Education (PHIRE) program. The complete genome sequences of 63 mycobacteriophages. Genome Announcements 1(6): e00847-13.

Genome Annotations Available from the National Center for Biotechnology Information

Bacillus phage 268TH002, complete genome. Chavira, V.R., Kemp, A.K., Lantrip, H.W., Perez, V.D., Reyes, D.A., Storrie, K.F., Truax, J.A., Krukonis, G.P. and Delesalle, V.A. 2022 (Submitted 2022). Accession No. ON210835. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from:

<https://www.ncbi.nlm.nih.gov/nuccore/ON210835.1>

Bacillus phage 268TH007, complete genome. Chavira,V.R., Kemp,A.K., Lantrip,H.W., Perez,V.D., Reyes,D.A., Storrie,K.F., Truax,J.A., Krukonis,G.P. and Delesalle,V.A. 2022 (Submitted 2022). Accession No. ON210834. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/ON210834.1>

Bacillus phage 274BB002, complete genome. McCarty,M.T., Ebert,L.E., Czerpak,M.R., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501264. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from:

<https://www.ncbi.nlm.nih.gov/nuccore/MZ501264.1>

Bacillus phage 278BB001, complete genome. Magness,L.H., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501265. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501265.1>

Pseudomonas phage SNK, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ826354. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ826354.1>

Pseudomonas phage REC, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ826353. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ826353.1>

Pseudomonas phage QAC, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ826352. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ826352.1>

Pseudomonas phage NOI, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ826351. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from:

<https://www.ncbi.nlm.nih.gov/nuccore/MZ826351.1>

Pseudomonas phage M5.1, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ826350. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ826350.1>

Pseudomonas phage M3.1, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ826349. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ826349.1>

Pseudomonas phage M1.2, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ826348. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ826348.1>

Pseudomonas phage M1.1, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ826347. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ826347.1>

Pseudomonas phage JOR, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ826346. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ826346.1>

Pseudomonas phage FMS, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ826345. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ826345.1>

Pseudomonas phage ALEA, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ826344. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ826344.1>

Pseudomonas phage AH05, complete genome. Roth,S.J., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501272. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501272.1>

Pseudomonas phage AH02, complete genome. Roth,S.J., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501271. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501271.1>

Pantoea phage AH07, complete genome. Roth,S.J., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501270. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501270.1>

Pantoea phage AH01, complete genome. Roth,S.J., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501269. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501269.1>

Erwinia phage AH06, complete genome. Roth,S.J., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501268. Bethesda

(MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501268.1>

Erwinia phage AH04, complete genome. Roth,S.J., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501267. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501267.1>

Erwinia phage AH03, complete genome. Roth,S.J., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501266. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501266.1>

Bacillus phage 043JT007, complete genome. Tanke,N., Magness,L.H., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501263. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501263.1>

Bacillus phage 035JT004, complete genome. Magness,L.H., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501262. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501262.1>

Bacillus phage 010DV005, complete genome. Magness,L.H., DeCurzio,J.M., Guffey,A., Simoes,M., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501261. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501261.1>

Bacillus phage 010DV004, complete genome. Magness,L.H., DeCurzio,J.M., Guffey,A., Simoes,M., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ501260. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ501260.1>

Pseudomonas phage FRS, complete genome. DeCurzio,J.M.K., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2021). Accession No. MZ598487. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MZ598487.1>

Rhodobacter phage RcOceanus, complete genome. Miller,B., Bollivar,D.W., Alvey,R.M., Delesalle,V.A. and Krukonis,G.P. 2021 (Submitted 2021). Accession No. MW677520. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from:
<https://www.ncbi.nlm.nih.gov/nuccore/MW677520.1>

Bacillus phage 000TH008, complete genome. Leigh,M.H., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2020). Accession No. MW419084. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MW419084.1>

Bacillus phage 000TH009, complete genome. Magness,L.H., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2020). Accession No. MW419085. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MW419085.1>

Bacillus phage 268TH004, complete genome. Goubet-McCall,L., Delesalle,V.A. and Krukonis,G.P. 2021 (Submitted 2020). Accession No. MW394467. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MW394467.1>

Bacillus phage 015DV004, complete genome. Magness,L.H., Tombko,B.E., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2020). Accession No. MW419087. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from:
<https://www.ncbi.nlm.nih.gov/nuccore/MW419087.1>

Bacillus phage 015DV002, complete genome. Magness,L.H., DeCurzio,J.M., Krukonis,G.P. and Delesalle,V.A. 2021 (Submitted 2020). Accession No. MW419086. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from:
<https://www.ncbi.nlm.nih.gov/nuccore/MW419086.1>

Gordonia phage Phendrix, complete genome. Burns,M.A., Hill,G.C., Wesley,B.E., Womack,T.V., Krukonis,G.P., Delesalle,V.A., Garlena,R.A., Russell,D.A., Pope,W.H., Jacobs-Sera,D. and Hatfull,G.F. 2022 (Submitted 2019). Accession No. MN096369. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from:
<https://www.ncbi.nlm.nih.gov/nuccore/MN096369.1>

Bacillus phage 276BB001, complete genome. Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176231. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information.
Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176231.1>

Bacillus phage 280BB001, complete genome. Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176232. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information.
Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176232.1>

Bacillus phage 056SW001B, complete genome. Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176230. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176230.1>

Bacillus phage 049ML003, complete genome. Tomko,B.E., Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176228. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176228.1>

Bacillus phage 049ML001, complete genome. Tomko,B.E., Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176227. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176227.1>

Bacillus phage 055SW001, complete genome. Tanke,N.T., Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176229. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176229.1>

Bacillus phage 035JT001, complete genome. Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176226. Bethesda (MD): National

Library of Medicine (US), National Center for Biotechnology Information.
Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176226.1>

Bacillus phage 031MP004, complete genome. Guffey,A., Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176225. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176225.1>

Bacillus phage 031MP002, complete genome. Vill,A.C., Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176224. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176224.1>

Bacillus phage 031MP003, complete genome. Simoes,M.S., Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176223. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176223.1>

Bacillus phage 022DV001, complete genome. Burton,E.A., Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176222. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176222.1>

Bacillus phage 019DV004, complete genome. Loney,R.E., Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176221. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176221.1>

Bacillus phage 019DV002, complete genome. Loney,R.E., Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176220. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176220.1>

Bacillus phage 000TH010, complete genome. Tomko,B.E., Krukonis,G.P. and Delesalle,V.A. 2019 (Submitted 2019). Accession No. MN176219. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/MN176219.1>

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Spencer,J.M., Stanton,J.D., Straszewski,A.J., Sullivanii,L.T., Tarbox,B.P., Taylor,S.E., Thompson,J.L., Tobiason,D.M., Walker,L.M., Warren,D.E., Westholm,D.E., Wilson,J., Wolyniak,M.J., Zegers,G.P., Zhang,D., Asai,D.J., Barker,L.P., Bradley,K.W., Khaja,R., Lewis,M.F., Cresawn,S.G., Bowman,C.A., Pope,W.H., Russell,D.A., Jacobs-Sera,D., Hendrix,R.W. and Hatfull,G.F. 2021 (Submitted 2011). Accession No. JQ300538 and NC_041986. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/JQ300538.1> and https://www.ncbi.nlm.nih.gov/nuccore/NC_041986.1

FUNDING

External grants

NSF Research Training Grant for the Study of Biological Diversification Fellowship Spring 1993, \$5950

NSF Research Training Grant for the Study of Biological Diversification Fellowship Fall 1993, \$5950

NSF Population Biology, co-PI, (with Frederick M. Cohan), "Evolutionary Adaptation in Viruses: The Role of Recombination" 1999-2003; grant 9815576 \$265,797

National Park Systems grant, PI, "DNA characterization of soil microbes associated with degradation of borate-treated wood in geographic regions with high levels of naturally occurring borates" 2018-2019: grant P18AP00241 \$39,174

Internal grants

Professional Development Fund, Faculty Development Committee, Gettysburg College 2009 \$3000

Professional Development Fund, Faculty Development Committee, Gettysburg College 2010 \$4988

Professional Development Fund, Faculty Development Committee, Gettysburg College 2010 \$4990 – Joint proposal with Véronique Delesalle

Professional Development Fund, Faculty Development Committee, Gettysburg College 2014 \$7500 – Joint proposal with Véronique Delesalle

Faculty Research Enhancement Program (FREP) grant, Angelo State University
2018-2019, \$14,911

Community Service

2020 As part of the urgent national effort for COVID-19 vaccine development accepted appointment as a Primary Local Member of the Institutional Biosafety Committee (IBC) for Benchmark Research - San Angelo

RECENT STUDENT PRESENTATIONS

Lisa Francomacaro*, Lauren Otto*, Christopher Bidlack*, Kaitlyn Carduner*,
Sara Christian*, Maxwell Everett*, Paulina Gutkin*, Ryan Kirby*, Zachary
Kozick*, Madison Kremp*, Elaney Marcotte*, Eileen McAuley*, Melville
O'Brien*, Samuel Sheridan*, Nicholas Stamatos*, Marie Pizzorno, Emily
Stowe, Greg Krukonis. 2016. The Arthrobacter phages of Bucknell
University. Howard Hughes Medical Institute Annual SEA-PHAGES
Symposium. HHMI Janelia Research Campus

Boas* K., A. Agesen*, M. Strine*, B. Tomko*, A.C. Vill*, V.A. Delesalle and G.P.
Krukonis. 2016. Genotypic and phenotypic variation in space and time of
naturally occurring Bacillus bacteriophage communities. Annual meeting of
the Society for the Study of Evolution. Austin, TX.

Agesen*, A., M. Strine*, S. Brantley*, K. Boas*, J. DeCurzio*, B. Tomko*, A.C.
Vill*, R. Weisensee*, R. Wigmore*, V.A. Delesalle, and G.P. Krukonis.
2016. Comparative genomics of large phages of *Bacillus subtilis* that differ
in tRNA genes and host range. Annual meeting of the Society for the
Study of Evolution. Austin, TX.

Tanke, * N.T., A.C. Vill*, V.A. Delesalle, and G.P. Krukonis. 2016. Testing
hypotheses for the presence of tRNA genes in mycobacteriophage
genomes. Annual meeting of the Society for the Study of Evolution. Austin,
TX.

Tomko*, B., A. Agesen*, K. Boas*, M. Strine*, A. Vill*, V.A. Delesalle and G.P.
Krukonis. 2016. Genomic characterization of newly isolated SPP1-like
Bacillus phages and their host-range mutants. Annual meeting of the
Society for the Study of Evolution. Austin, TX.

Vill*, A.C., A. Agesen*, K. Boas*, E. Burton*, M. Strine*, N.T. Tanke*, B. Tomko*,
V.A. Delesalle, and G.P. Krukonis. 2016. Comparative genetic analyses of

six novel phages that differentially lyse strains of *Bacillus subtilis*. Annual meeting of the Society for the Study of Evolution. Austin, TX.

Agesen* A., B. Tomko*, V.A. Delesalle, G.P. Krukonis. Analysis of host range mutants of *Bacillus subtilis* bacteriophages. 2017. Annual meeting of the Society for the Study of Evolution. Portland, OR

DeCurzio* J., V.A. Delesalle, R. King*, G.P. Krukonis, B. Koskella, and N. Morella. 2017 Comparative genomics of 19 small *Pseudomonas* bacteriophages. Annual meeting of the Society for the Study of Evolution. Portland, OR

Strine*, M., J. DeCurzio*, V.A Delesalle, G.P. Krukonis. Extracellular proteases: a potential *Bacillus subtilis* defense mechanism against bacteriophage infection? 2017. Annual meeting of the Society for the Study of Evolution. Portland, OR.

Burns*, M., S Baty*, G. Krukonis Identifying Correlations Between Genetics and Host Range in Specialist and Generalist Bacteriophage. 2018. National Collegiate Honors Council National Symposium. Boston, MA.

Loney*, R., W. Stump*, M. Miller*, S. Roth*, R. Wert*, O. Chatowsky*, Z. Searcy*, V.A. Delesalle and G.P. Krukonis. 2019. Studying phage-bacteria interactions: what microtiter plate-based assays tell us about phage virulence and bacteria resistance. Annual meeting of the Society for the Study of Evolution. Providence, RI.

Stump*, W., S. Roth*, R. Loney*, M. Miller*, R. Wert*, O. Chatowsky*, Z. Searcy*, V.A. Delesalle and G.P. Krukonis. 2019. Does the presence of phage affect biofilm formation in *Bacillus subtilis* strains? Annual meeting of the Society for the Study of Evolution. Providence, RI.

Burns*, M., G. Krukonis Purine Bias Analysis in Actinobacteriophage. 2019. National Collegiate Honors Council National Symposium. New Orleans, LA.

Véronique Delesalle, Leigh Magness, Megan Czerpak, Sarah Ellis, Rachel Loney, and Greg Krukonis.* 2023 It Matters Who You Eat: Exploring the Evolutionary Dynamics of Phage and Bacteria. Society for the Study of Evolution, In Albuquerque, NM.