Bridgette L. Kirkpatrick, Ph. D.

Professional Societies:

Science Education Alliance – Phage Hunters Advancing Genomics and Evolutionary Science (SEA-PHAGES), Bio-Link-InnovateBio, Society for the Study of Reproduction, Community College Undergraduate Research Initiative, American Society Microbiology

Other Activities:

Member of Faculty Council, lab compensation subcommittee 2018-2022
District Biology Curriculum Team, piloted research-based lab, and online labs for BIOL 1406; 2018-present
Program Review Steering Committee, review team for Institutional Research Office Spring 2022
BioMADE Annual meeting June 2022
Biomanufacturing Education and Workforce Development Summit stakeholder event, June 2022
Bioreactor Education, Setup and Training Workshop in August 2022
Faculty advisor for biotech students; participated in Workforce Fair, biotech advisory board meetings--ongoing
Attended, presented at CAST 2022; Science Teachers Association of Texas, November 2022
Attended the BioNTX "Women Driving Innovation" Spring 2022
Attended Pegasus Park ribbon cutting ceremony, Spring 2022
National Association for Biology Teachers annual meeting, November 2021
Advanced Technology in Education and MentorLinks annual meetings (virtual) October 2021, virtual/in person 2022
IC3 Life Sciences Summit, October 2021
Biomanufacturing workshop (virtual) June 2021
InnovateBio grant highlight (virtual) January 2022
HI-TEC Conference, virtual, July 2021, in person 2022
Attended BETA Skills virtual training, June 2021
SEA PHAGES Annual Meeting, Spring 2021 (students presented poster and I co-facilitated a session)
Life Science Innovation NorthWest annual meeting, April 2022
"Biomanufacturing in North Texas - Workforce Development in Texas", IC3 Conference-co-presenter, November 2021
Innovatebio Agriculture Biotech Workshop. Presented December 2020, June 2021
QUBES to improve and incorporate 2 quantitative biology activities into biology and biotech courses, 2021
Team Based Learning workshops. Co-present (3-4/year) 2018-present
Bioscience Fellowship, June 2019
Mini-BioMan Cellulase Workshop Participant June 2018
Research Experiences in Introductory Laboratories in Biology (REIL) Biology Workshop participant, November 2017
Synthetic Biology Workshop, June 2017 and 2018
Stem Cell workshop, Austin, Texas, 2016
Science Education Alliance – Phage Hunters Advancing Genomics and Evolutionary Science (SEA-PHAGES) phage discovery June, 2016; bioinformatics December, 2016
Bio-Link Summer Fellows Presented on NeededMath and Enzyme Linked Immuno-Sorbent Assay activity 2018, Team Based Learning, 2107
Research Mentoring Workshop/Del Mar College, Corpus Christi, Texas
Community College Undergraduate Research Initiative Meeting, 2017 Fall Student poster and presented about what Collin College is doing in undergraduate research
Advanced Technology in Education Principal Investigator Meeting-2017 co-Presented on undergraduate research at Collin College and Team Based Learning, Inquiry-based Biology Lab
Biology Undergraduate Education Gordon Conference presented a poster on lab we are developing, Summer, 2017
Texas A&M Engineering Experiment Station Annual Research 2018 Conference (TARC), Participant, won small team grant
Contract Service Organization Summit, Participant

Howard Hughes Medical Institute Symposium Science Education Alliance – Phage Hunters Advancing Genomics and Evolutionary Science (SEA-PHAGES) program, Student posters (2017, 2018), attended 2018 Faculty Retreat (2018,2016)
American Society for Microbiology Conference for Undergraduate Educators (ASMCUE) attended, 2016, Presented Team Based Learning (2017) presented Workshop synthetic biology and biotech on a budget and biosafety (2018)
Biology Field of Study Member, 2018
NeededMath Participant, 2018
National Association of Biology Teachers, 2017 attended, 2018, presented
Arkansas-Course-embedded Undergraduate Research Experience (AR CURE) Synthetic Biology workshop (participant 2017, Presenter, 2018)
High Impact Technology Exchange Conference (HITEC) attended, 2016, presented 2018
Research Mentoring Workshop/Del Mar College, Corpus Christi, Texas 2016 attended, 2017, presented
PARE-Prevalence of antibiotic resistance in the environment; implemented in courses and working on extension labs
Member Cohort 9 of SEA PHAGES—Discovery and Bioinformatics workshops
Presenter Bio-Link Summer Fellows-Team-based learning in the biotech classroom
Participant Team Based Learning workshops and national meeting 2015, 2017,
Biotechnology Educator's Conference; planning committee member/chair/presenter; 2002-2010
PALM Workshop Participant, June 2009
Presented "Inside Cancer", June 2009
Presented "Biotech on a Shoestring Budget" Mini-CAST, January 2008
Participant-Plant Genomics workshop, UC Davis, July 2007
Presented multiple continuing education workshops for high school science teachers "Biotech in a Box" or "Biotech on a Shoestring Budget"; 2004; 2005; 2007
Biotechnology Institute Teacher-Leader Participant and BIO attendee, Chicago, IL, April 2006
National Bio-Link Summer Fellows participant; June 2006 and 2009, 2014-17
Career Week Planning Committee, 2005-06
Presented workshop for high school ag teachers "Biotechnology in Agriculture" -Tarleton State University, June 2004 and 2009
TXBESS Science and Math Teacher Workshop; presentation "What is Biotechnology?"; June 2003

Publications:

Genome publication for CrystalP- Fleischacker CL, Segura-Totten M, SEA-PHAGES 2016 Bioinformatics Workshop, Garlena, RA, Jacobs-Sera D, Pope WH, Russell DA, Hatfull GF. 2017. "Genome Sequence of Mycobacterium Phage CrystalP. Genome Announcement. 5 (28)

GenBank https://www.ncbi.nlm.nih.gov/ DNA sequence annotation; co-author, genome sequences to the National Center for Biotechnology Information (NCBI) GenBank database for bacteriophages:

- CrystalP – Spring 2017 KY319168
- ItstyBitsy1 – Fall 2017 MG812491
- Amochick - Spring 2018 MH697577
- Noodletree - Fall 2018 MK359346
- BQuat - Fall 2018 MK305884
- Quenya – 2019 MT889365
- Jenos – 2019 MZ005681
- McGalleon – 2019 MN062703
- Dinger 2020 MN945902