

X-ray crystallography techniques (setting up crystal trays, looping and freezing crystals, data collection, and data processing)

Cloning of recombinant genes for protein expression in *E. coli* (isothermal assembly, ligation, independent cloning, QuickChange mutation insertion, NEBuilder DNA assembly, and traditional cloning techniques)

Cell culture techniques (Chinese hamster ovarian (CHO) cells and human pancreatic cancer (MIA-Paca-2) cells) and protein expression (*E. coli* and *S. cerevisiae*)

Traditional cloning of recombinant genes for protein expression in yeast (*Saccharomyces cerevisiae*)

Dynamic light scattering (DLS) for determining sample composition

University of South Florida in Indiana

Basic extraction of active compounds using reflux techniques

Basic thin-layer chromatography techniques to determine presence of aromatic centers

Basic infrared spectroscopy and nuclear magnetic resonance spectroscopy techniques

COMPUTER

Honors Principles of Chemistry and Biochemistry (A123) Assistant Instructor

Taught discussion sections and assisted students with homework questions, graded problem sets and exams, explained basic biochemistry topics and concepts.

Assisted with inventory and archival of study materials