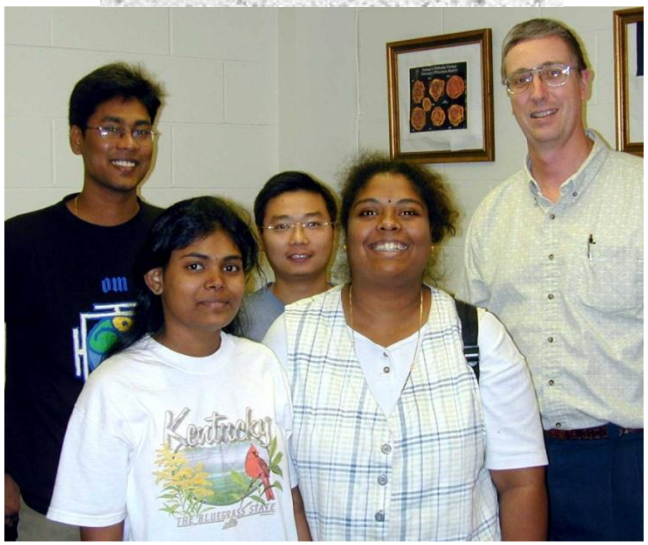
Dr. Claire Rinehart
Department of Biology

Research Interests:

- Functional Genomics
- Virology
- Gene expression analysis
- Developing and applying Bioinformatics Tools
- Predicting the conservation of protein structure & function from amino acid properties.
- HPCC Co-director
- BISC Director



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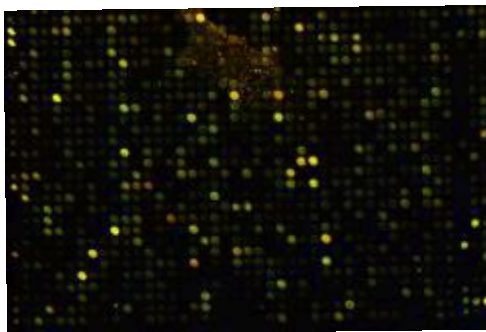
Projects:

- Genome assembly and annotation. (Mycobacteriophages and a Clostridium bacteria)
- Identification of promoter sequences in mycobacteriophage.
- Correlation of short repeat sequences with functional properties in mycobacteriophages.
- Correlation of microarray expression patterns with treatment components.
- Searching for protein functions from 3D protein structures.
- Development and refinement of amino acid property-based bioinformatics tools.
  - Property profile-based conservation of structure and function.
  - Using protein property profiles to predict functions in uncharacterized proteins.



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Courses Taught:

- Bioinformatics, (Biol. 312)
- Introduction to Recombinant Gene Technology (Biol. 350)
- Molecular Genetics (Biol. 495)
- Advanced Molecular Genetics (Biol. 566)
- Tools for Genomic Analysis (Biol. 503)
- Genome Discovery and Exploration (Biol. 275)