Main Project Pages: Overview of Project Objectives
(With Links to Personnel, Publications, Educational Pages, Database Pages, Related Projects)

Specimen Database (Information and images stored in NYBG Virtual Herbarium):
- Description of taxon sampling (~500 species) presented on a phylogeny with links to individual species and samples
- Vouchers for all specimens including all collection information.

Morphology Database (NYBG, MorphBank or MorphoBank):
- Hierarchical list of characters organized by organ and developmental stage with descriptions of scoring methodology. Hierarchy developed in collaboration with the Plant Ontology Consortium
- Data matrices with links to images

DNA/Sequence Database (Virtual Lab Notebook “PhyloLIMS” at PSU):
- Catalog of all DNA and RNA extractions including unique ID#s, extraction date and lab info, quality information.
- Gene database:
  - PCR/Sequencing Primers
  - Amplification/Clones
  - Sequences (reads and contigs)
  - Alignments

Phylogeny Database and Visualization Tools (Trees and comparative analyses produced by investigators using a various methods and tools - e.g. CIPRES services):
- Trees for each data matrix and tools for comparing trees
- Trees for combined data matrices
- Presentation of comparative analyses of character evolution (e.g. Cecile’s analyses)