Lessons from Plant Genomics

Taxonomic Name Resolution Service (TNRS)

The Taxonomic Name Resolution Service (TNRS) is a tool for the computer-assisted standardization of plant scientific names. TNRS corrects spelling errors and alternative spellings to a standard list of names and converts out-of-date names to the currently accepted name. TNRS can process many names at once, saving hours of tedious and error-prone manual name correction.
Variety: Anatomical and morphological
Variety: Genes and proteins

Tree Browser

cochleata

blade-on-petiole

Plantcell
Volume 17(5):
434-1448
Velocity, Volume, and Veracity

• 2003 Human Genome Project completed after 13 years
• Sanger-based sequencing (average read length=500-600 bases): 6-fold coverage
• 454 sequencing (average read length=300-400 bases): 10-fold coverage
• Illumina and SOLiD sequencing (average read length=50-100 bases): 30-fold coverage

www.genome.gov/sequencingcosts

http://www.iplantcollaborative.org/