

Work Completed

- New or updated Data
 - *G. barbadense* 3-79 (AD2_NBI) genome sequence made available on CottonGen JBrowse, includes:
 - Genome sequence Assembly and annotation
 - CottonGen all marker sequence alignments
 - CottonGen unigene v1.0 alignments
 - PlantGDB cotton unigene alignments
 - J. Udall 2012 Unigene contig alignments
 - NCBI cotton dbest sequence alignments
 - Cacao theobroma v1.1 protein homologies and alignments
 - Arabidopsis thaliana TAIR10 protein homologies and alignments
 - Oryza sativa MSU v7.0 protein homologies and alignments
 - Glycine max v1.0 protein homologies and alignments
 - Vitis vinifera protein homologies and alignments
 - Marker and Maps
 - Added TAMU CottonSNP63K AD genome intra species map (7,171 loci)
 - Added TAMU CottonSNP63K AD genome inter species map (19,191 loci)
 - Added CSIRO MCU-5 × Siokra 1–4, RIL SNP map (1244 loci and 4 QTLs)
 - Reloaded 40,796 SNP marker data and sequences to fix bug caused by system upgrade
 - Added 10,521 TAMU Gb379 SNPs to chado
 - Added new cotton trait categories to chado
 - Added a new project page for the TAMU Cotton63KSNP Array
 - Added UCD SNP/InDel and TM-1x3-79 map genotype data
 - Added ARS-CS NCGC SSR genotypic data, contains 204,776 genotypic scores from 104 SSRs screened on 1969 germplasm
 - Reloaded UCD SNP/InDel data to fix bug caused by system upgrade
 - Reloaded USDA CFB SNP data to fix bug caused by system upgrade
 - Map/marker/qtl data extracted and curated from 12 publications and added to data templates for upload to CottonGen
- Tools and Website
 - CottonCyc
 - Analyzed and added a new CottonCyc pathways for the AD1-BGI genome
 - Updated the D5-JGI CottonCyc pathways by using PathwayTools version 19.5
 - GBrowse_Syn
 - Conducted Synteny analysis between D5-JGI and A2-BGI and made available on GBrowse_Syn
 - JBrowse
 - Fixed problem with the *G. raimondii* JGI protein homology data and updated data on Data Download page
 - Other
 - Fixed the broken link between CottonGen germplasm and USDA-GRIN

- Conferences and Presentations
 - Prepared and presented CottonGen at the ICGI 2016 Conference
 - Released the first CottonGen biannual newsletter

- Usage in Q2 of 2016: 7,216 visits by 3,340 unique viewers from 108 countries who viewed 38,274 pages.

Work in Progress and plan in Q3, 2016

- Creating CottonGen reference transcriptome using public RNASeq and EST data
- Continue on the development of CottonGen BIMS to provide better interfaces and also converting to Tripal to share with other databases
- Adding germplasm type to all germplasm in chado
- Adding more map, marker and QTL data: We are continuously adding more map, marker and QTL data from publications to keep up-to-date database.
- Developing further terms for Trait Ontology to describe cotton traits.