Soybean Knowledge Base (SoyKB): a comprehensive all-inclusive web resource for soybean. SoyKB is designed to handle the storage and integration of the gene, genomics, EST, microarray, transcriptomics, proteomics, metabolomics, pathway and phenotype data. It provides an informatics-based web resource to soybean researchers, breeders and consumers.

URL: http://soykb.org

Plant protein phosphorylation database (P3DB): a repository for plant protein phosphorylation data. P3DB version 1.6.0 hosts protein phosphorylation data for 5 species from 16 experimental studies, containing 41,962 phosphoproteins, harboring 225,713 phosphosites from mass spectrometry results (CID, ETD, HCD).

URL: http://p3db.org

Virtual Physical Examination (VPE) Tool: a web-based, multi-media medical educational system for the Cerner platform. VPE allows users to perform physical examination on patients in a virtual environment. A user can create 3D avatars of patients, build medical cases using associated files including audio, video, image, text and interactive assets, perform diagnosis, and share information with others.

URL: http://musite-dev.missouri.edu

MUFOLD: an efficient and accurate protein tertiary structure prediction platform that applies whole and partial template information along with new computational techniques. MUFOLD covers both template-based and ab initio predictions using the same framework. MUFOLD demonstrated its success in the community-wide experiment for protein structure prediction CASP.

URL: http://mufold.org

Musite: an open-source package and a webserver for predicting both general and kinase-specific protein phosphorylation sites, as well as many other post-translational modification (PTM) sites from protein sequence using a novel machine-learning method and effective biochemical features. Musite has pre-trained prediction models for many species and PTM types, and it allows users to train their own prediction models from specific training data.

URL: http://musite.net

Primegens: an open-source tool and a set of web-based utilities for high-throughput DNA primer/probe design. It can be applied in DNA synthesis, qRT-PCR, bisulfite-treated sequencing, oligo design, and array-based sequence capture. PRIMEGENS avoids or minimizes cross-hybridization in large-scale design in an automated fashion.

URL: http://primegens.org

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For more details, please visit http://digbio.missouri.edu.