**ALA 11- Integrating Breeding Management system (BMS) in plant breeding**

**Prerequisites**

eModules 1, 2, 3 and Cowpea crop module in Plant Breeding Methods and Cultivar Development

MS Excel proficiency

**Purpose**

To make use of existing germplasm list in excel by exporting it in BMS platform involved in the development of cowpea cultivar “California Blackeye 27” (CB27).

**Background**

High temperature and long-day conditions suppress flower bud development and reduce pod set of most cowpea genotypes. Therefore breeders are interested to identify cowpea genotypes that overcome this problem, and utilize them as parents to develop high yielding cowpea cultivars that can produce abundant flowers and pods under high temperature and long-day conditions along with disease and pest resistance. Cowpea cultivar, CB27 is an ideal high yielding black eye cowpea cultivar suitable for growing conditions in Central Valley of California due to its tolerance to grow and produce flowers and pods under high temperature as well as broad base resistance to Fusarium wilt and root knot nematodes.

**For this exercise, students need to import germplasm list made in excel consisting of lines (**Prima, TVu4552, UCD7977, CB5, CB3) **involved in the development of CB27.**

**Tasks**

1. To get familiarize with excel datasheet format required in import of germplasm list to BMS platform.
2. To understand how to use “Manage Lists” function under “BREEDING ACTIVITIES” tab to import existing “germplasm list” into the BMS.
3. To save the imported “germplasm list” for further use in a breeding program.