Project Title: "Use of marker assisted selection (MAS) to improve selection efficiency in breeding for resistance to major bean diseases of common bean (Phaseolus vulgaris L.) in Tanzania"
Institute:
Funding Period: May 2015 – April 2018

Main Objective:
Improve yield of common bean in Tanzania by developing bean cultivars resistant to angular leaf spot (ALS), common bacterial blight (CBB) bean common mosaic virus (BCMV) and anthracnose diseases.
The specific objectives are:
i. To determine performance of the verified lines containing combined ALS, CBB,BCMNV resistance in multilocation replicated trials.
ii. To determine performance of lines in on-farm multilocation trails for participatory variety selection and release of varieties.
iii. To add genes for anthracnose resistance into advanced lines containing resistance genes (ALS, CBB, and BCMNV).
iv. To incorporate resistance genes in other market classes of bean (yellow and sugar beans).
v. To determine pathogen variability for ALS, CBB and ANTH in major bean growing areas of Tanzania.
vi. To determine appropriate seed delivery system for improved legume varieties.


Common Bean Flower