

## Integration of rapid generation technology in pulse crop breeding

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SPG Contributions	Project Status	Duration/Timeline of Project (Year to Year)	Total Project Cost
\$791,142.00	Completed	August 2012 – July 2015	\$791,142.00

### Project Description

To accelerate pulse crop breeding through the application of rapid generation technology (RGT) in the Crop Development Centre (CDC) pulse breeding program.

### Outcome

This study showed that rapid generation technology (RGT) doubles the number of generations per year, and has fewer environmental fluctuations and fewer disease or insect problems as compared to conventional breeding. Crop Development Centre (CDC) pulse breeders are currently using rapid generation technology in recombinant inbred lines for genetic analysis, screening and selection of field pea and lentil populations. RGT can hasten genetic improvement to introduce new cultivars as well as promote competitiveness and profitability among breeding programs.

### Research Objective

#### OBJECTIVE 1

To accelerate pulse crop breeding through the application of rapid generation technology (RGT) in the Crop Development Centre (CDC) pulse breeding program.