

## Genetic improvement of bioavailable selenium content in lentil seeds

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SPG Contributions	Project Status	Duration/Timeline of Project (Year to Year)	Co-funders	Total Project Cost
\$163,961.25	Completed	December 2007 – February 2011	Saskatchewan Ministry of Agriculture – Agriculture Development Fund (ADF)	\$306,536.25

### Project Description

To conduct a series of investigations that will form the scientific basis of a marketing and breeding strategy based on biofortification of selenium content for Saskatchewan grown lentil crops.

### Outcome

The results of this series of studies demonstrated that it may be feasible to genetically improve the selenium (Se) concentration in lentil seeds through use of appropriate breeding strategies. From an industry perspective, it appears that there is potential for using Se as a key component in future marketing strategies for lentil related to human nutrition on a global scale. It will be necessary to carefully integrate future research and development with strategic market development efforts in order to maximize benefits for Saskatchewan lentil producers.

### Research Objective

#### OBJECTIVE 1

To conduct a series of investigations that will form the scientific basis of a marketing and breeding strategy based on biofortification of selenium content for Saskatchewan grown lentil crops.