Breeding forage and grain legumes to increase EU's and China's protein self-sufficiency

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Topics: SFS-44-2016: A joint plant breeding programme to decrease the EU's and China's dependency on protein imports

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The strategic goal of EUCLEG is to reduce Europe and China’s dependency on protein imports by developing efficient breeding strategies for the legume crops of a major economic importance in human food and animal feed.

The objective is to improve diversification of crops, crop productivity, yield stability and protein quality.

NEW BREEDING STRATEGIES

for the forage - alfalfa and red clover - & grain - pea, faba bean and soybean - legumes.

OVERALL CONCEPT

Development of genomic tools and data needed to analyse the genetic architecture of agronomic traits.

Evaluation of genetic resources including traditional and selected populations useful for adaptation of species to current or new constraints or uses.

Identification of genes and markers involved in phenotypic variation based on phenotypic traits and genomic tools used to describe genetic resources, and proposition of improved breeding methodologies.

EUCLEG will implement extensive phenotyping in a comprehensive network of European and Chinese agro-ecological areas. Development and smart use of molecular markers enhancing genetic gain will be ensured.

PROJECT STRUCTURE