

## Structural and functional genomic research in model legume plants: The National BioResource Project (NBRP) in Japan

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**Introduction** *Lotus japonicus* is a wild perennial plant with a small genome and a short life cycle. This plant is expected to play a role as the model organism of leguminous plants, which include important crop plants such as soybean (*Glycine max*). Legume Base, a resource centre for *Lotus japonicus* and *Glycine max*, was established in April 2004. The scope of Legume Base is the collection, development and conservation of the genetic resources of *L. japonicus* and *G. max* and the distribution of the material for utilization by the research community. DNA resources including genomic DNA clones will be also available through Legume Base web site.

Legume Base is supported by the National BioResource Project of Japan. The core facility of Legume Base is at Miyazaki University and the sub facility is at Hokkaido University. Some parts of the distribution work are carried out by following facilities on commission: the National Agricultural Research Centre for the Hokkaido Region, Nihon University College of Bioresource Sciences and RIKEN Plant Science Centre



**Results** The following genotypes are/will be made available for distribution (Items listed in bold are now available.)

<i>Lotus japonicus</i>	<i>Glycine max</i>
<b>1. Miyakojima MG-20, Gifu B-125</b>	<b>1. Cultivated accession lines</b>
<b>2. Accession lines (collected throughout Japan)</b>	<b>2. Wild accession lines (collected throughout Japan)</b>
<b>3. LjMG RI lines (RI lines between Miyakojima MG-20 and Gifu B-129)</b>	3. RI lines (RI lines between Misuzudaizu and Moshidou Gong 503)
4. Activation tag lines	4. Mutants in fatty acid composition
5. EMS mutants	
<b>6. Root culture system (Super Roots isolated from <i>Lotus corniculatus</i>)</b>	

For more detailed information visit Legume Base web site at <http://www.legumebase.agr.miyazaki-u.ac.jp>