

Soybean Genetics Committee

David Grant (chair) - USDA-ARS

Silvia Cianzio - Iowa State Univ.

Elroy Cober - Agriculture and Agri-food Canada (AAFC)

Alexandre Garcia - Tropical Melhoramento & Genética Ltda

Milad Eskandari - Univ. of Guelph

Ben Fallen - Clemson Univ.

Zenglu Li - Univ. of Georgia

Rouf Mian - USDA-ARS

Rex Nelson - USDA-ARS

Andrew Scaboo - Univ. of Missouri

Qijian Song - USDA-ARS

Randall Nelson (ex officio) - Univ. of Illinois

Requests Considered During 2016

GENES

Rsv5 Gm13 (replaces Rsv1-y)

Approved

E10 Gm08

Approved

Rpp4-b Gm18 (new allele of Rpp4)

Approved

Wd Gm18

Approved

4 Gene Name requests

Not approved

QTL

QTL identified by meta-analysis

Approved mqQTL
nomenclature

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- A QTL study alone is not sufficient to identify a gene.
for example, this paper reported several QTL that were ultimately shown to each contain multiple linked genes in the QTL region, all of which had an effect on the phenotype
<http://www.g3journal.org/content/7/1/119.full>
- Mapping a gene from a novel germplasm to a genetic position slightly different from a known gene alone is not sufficient to define a either a new gene or an allele of the known gene

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- Proposed names for genes in soybean that are identified only using sequence similarity to a homolog in another organism should be submitted to the SoyBase Curator, not the SGC. Nomenclature rules for genes identified by sequence similarity have been approved by the Committee and will be posted to SoyBase.
- Include a short summary of the project and relevant results in the cover letter when submitting a gene name request to the Committee.

Questions?