

BIC Genetics Committee Meeting Minutes

November 6, 2025; 4-5pm

Lincoln, Nebraska

Committee Members: Branham, Brown, Diepenbrock, Dohle, Ferreira, Gepts, Goncalves-Vidigal, He, Miklas, Osorno, Parker (Chair), Porch, Urrea

Zoom link (helpfully set up by Christine): <https://ucdavis.zoom.us/j/8208866818>

Meeting ID: 820 886 6818; no password

Minutes Recorded by Emmalea Ernest

Genetics Committee Members (all): Branham, Brown, Diepenbrock, Dohle, Ferreira, Gepts, Goncalves-Vidigal, He, Miklas, Osorno, Parker (Chair), Porch, Urrea

Members Present: Branham, Brown, Diepenbrock, Osorno, Parker (Chair), Urrea

The committee discussed inclusion of *Co-18* (Lateef et al. 2019), and *Co-19* (Badiyal et al. 2024) in the Gene List:

Both are anthracnose genes described in recent publications that are mapping to locations where no previous *Co* loci have been mapped however not all named *Co* genes have been mapped (e.g. *Co-11* and *Co-12*).

Travis Parker made a motion to include *Co-18*, *Co-19* in the gene list. Juan Osorno seconded the motion. The motion was unanimously approved by the committee.

The committee discussed the conventions for gene nomenclature. Should gene names include linkage group and source? E.g., *CoPv01^{CDRK}* vs. *Co-20^{CDRK}*? Or *Co-1²* vs. *Co-1^{Kaboona}*?

Travis Parker made the following motion: Continue using sequential numbering for resistance loci. The first time the gene is named, no superscript needs to be included in the name. Subsequent alleles indicate the origin with superscript. Juan Osorno seconded the motion, and it was unanimously approved by the committee.

The committee discussed the logistics of getting researchers to follow standard naming conventions. Ideally, new names should be submitted to the BIC Genetics Committee before publication. Then the BIC GC chair will send the request to committee members for review/comment. If a committee member is a peer reviewer for a paper publishing a new gene, recommend that the authors contact the committee regarding naming conventions and review. Additionally, the BIC GC committee chair should review the information on the BIC GC webpage regarding gene name submissions

Action Item: Review information on the BIC GC committee web page, especially related to submitting new genes/names to committee for review and what information researchers/authors need to provide.

The committee discussed updates to the tm-shift/gene model table. This table may be accessed through the BIC Genetics Committee page on the BIC website (https://www.bic.uprm.edu/?page_id=91) New information could be added to this table. There is also a table maintained by CGIAR at this site: <https://excellenceinbreeding.org/toolbox/tools/kasp-low-density-genotyping-platform>. The committee discussed whether to integrate information from the CGIAR table into the BIC GC table or to direct users of the BIC GC website to the CGIAR website.

Action Item: Add link to BIC GC website linking to CGIAR in some way. Committee recommendation a to link to the CGIAR genotyping-platform page
<https://excellenceinbreeding.org/toolbox/tools/kasp-low-density-genotyping-platform>.

There are some inconsistencies in the existing table on the BIC GC website, and updates may be needed. Updates or new information to add to the table should be emailed to Travis Parker. For new additions, send a revised version of the Excel file that contains the information in a new row.

Discussion

- Lima bean sequences could be added to the table in a new tab.
- Can we make it a requirement that people include new genes or markers presented at the BIC in the table? No – some of the data is too preliminary. Only validated markers that are being used should be added.
- Should the person who compiles the BIC report contact people who might have information that should be added to the table?
- Should there be a presentation at the next BIC meeting about the Genetics Committee and the resources on the website?

Action Items: (1) Add information about the BIC GC, gene naming and GC resources to the email to BIC members asking for reports. Encourage members to submit gene names and marker information. (2) Make an announcement about the BIC Genetics Committee and resources at the next BIC meeting.

Travis will send an email regarding correspondence from Celeste Goncalves-Vidigal.

Membership Updates

Jenna Hershberger, Miranda Haus and Burcu Celebioglu expressed interest in joining the BIC Genetics Committee.

Juan Osorno made a motion that J. Hershberger, M. Haus and B. Celebioglu be added to the BIC GC. Travis Parker seconded the motion. The motion was approved.

Committee Adjourned.