

Genetics Committee Minutes
2011 BIC Meeting, Arizona

Meeting location: Westward Look Hotel, Tucson, Arizona
Date: Feb. 17, 2011
Time: 1:30 PM to 3:30 PM

Attendance (not complete)

Kirstin Bett	University of Saskatchewan, Saskatoon (by Skype)	Committee member
Paul Gepts	University of California, Davis	Committee member
Phillip Miklas	USDA/ARS, WA	Committee member
Tim Porch	USDA/ARS, PR, Chairperson	Committee member
Carlos Urrea	University of Nebraska	Committee member
Molly Welsh	USDA/ARS, WA (ex officio)	Committee member
Mark Brick	Colorado State University	
Phillip Griffiths	Cornell University	
James Kelly	Michigan State University	
Jim Myers	Oregon State University	
Steve Noffsinger	Seneca Foods Corp.	
Juan Osorno	North Dakota State University	
Talo Pastor-Corrales	USDA/ARS, Beltsville	
Jim Steadman	U. of Nebraska	

Old Business

1. Approval of the Genetics Committee meeting minutes from the W1150 Meeting in Ft. Collins, Colorado on Oct 28, 2009

Decision: Minutes approved by those attending.

2. Recently accepted gene symbols

For general information of the committee, the gene symbol and QTL symbol accepted by email since the last meeting, *Ur-14* and SY, respectively, were presented. No decision was made.

New Business

1. Approval of *Phg-1* gene symbol

Additional marker work was completed on the manuscript submitted for review (Colorado meeting 2009) has now been published (Goncalves-Vidigal et al., 2010). The group has provided the evidence requested by the Committee for the map location for *Phg-1* using two additional markers and showed linkage to *Co-1*⁴. **Decision:** The gene symbol, *Phg-1*, was accepted and will be added to the List of Genes and to the bean map.

- 2. New gene symbol for slow-darkening locus** (Kirstin Bett, by Skype)
The investigators found that there are two genes controlling slow darkening with *J* epistatic to *sd*. The Genetics Committee approved the recessive, *sd*, gene symbol based on the evidence in the manuscript (Elsadr et al., in preparation).
- 3. Update of the Fusarium wilt gene symbols** (Jim Kelly)
There are two gene symbols for Fusarium wilt, *Fop-1* and *Fop-2*. Ribeiro and Hagedorn (1979) first described the two genes, *Fop-1* conditioning resistance to a race from Brazil that has since been named race 2 (Woo et al., 1996), while *Fop-2* confers resistance to a race from South Carolina that has since been named race 1. In addition to other races, Mark Brick and Howard Schwartz (Cross et al., 2000) have additional research results to include in this Fusarium wilt story. **Decision:** Leave gene symbols and race designations as they currently are. Request that Jim Kelly work with Mark Brick and Howard Schwartz on clarifying the Fusarium wilt gene/race symbols.
- 4. New gene symbols for Angular Leaf Spot (ALS) resistance**
There are new gene symbols published for ALS (Mahuku et al., 2009) on B4 and B9 and include *Phg_{G5686A}*, *Phg_{G5686B}*, and *Phg_{G5686C}*. **Decision:** These gene symbols, in addition to other gene symbols published by a Brazilian group, will be reviewed by Tim Porch, Jim Kelly, and Talo Pastor-Corrales. A more complete review of the current status of ALS symbols will be presented at the 2011 BIC meeting in Puerto Rico.
- 5. Discussion on QTL symbols**
There are several cases of use of different QTL symbols for the same trait: e.g. plant height; HT (core map), PH (recent manuscript). **Decision:** A list of QTL symbols will be assembled with the assistance of Paul Gepts. Previously published QTL symbols will be accepted, but new symbols will need to be reviewed by the Genetics Committee before publication.
- 6. Membership and Next meeting**
Jim Kelly will join the Genetics Committee.
Phil Miklas (current BIC President) will step down as a member of the Genetics Committee.

The next meeting will be held at the Verdanza Hotel, San Juan, Puerto Rico on Nov 2, 2011.