

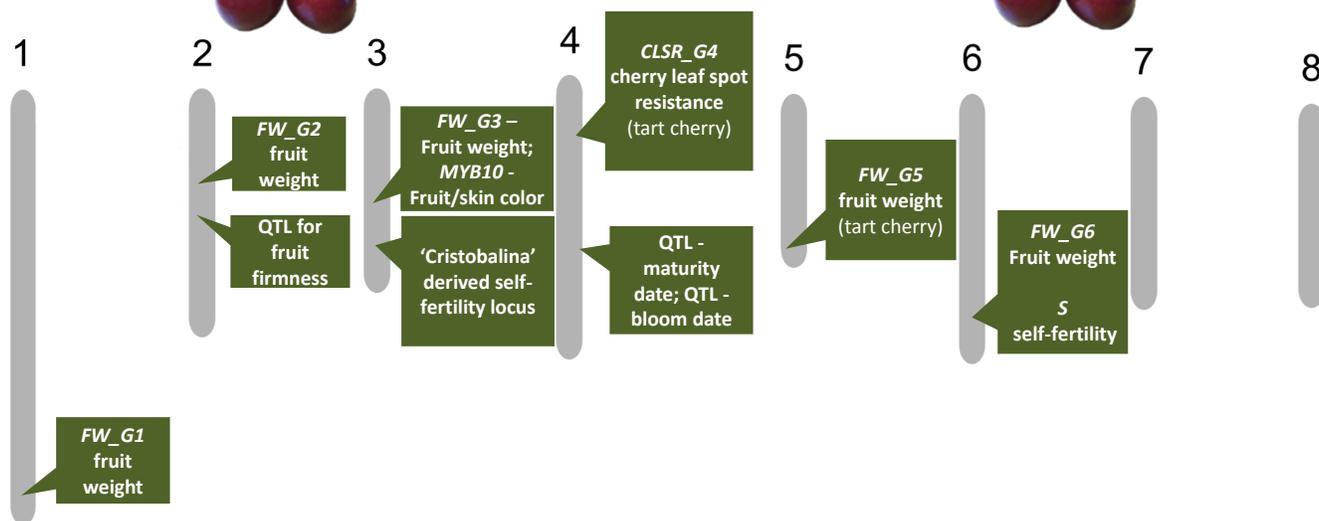
Jewels in the genome: The Necklace

By Amy Iezzoni, Project Director

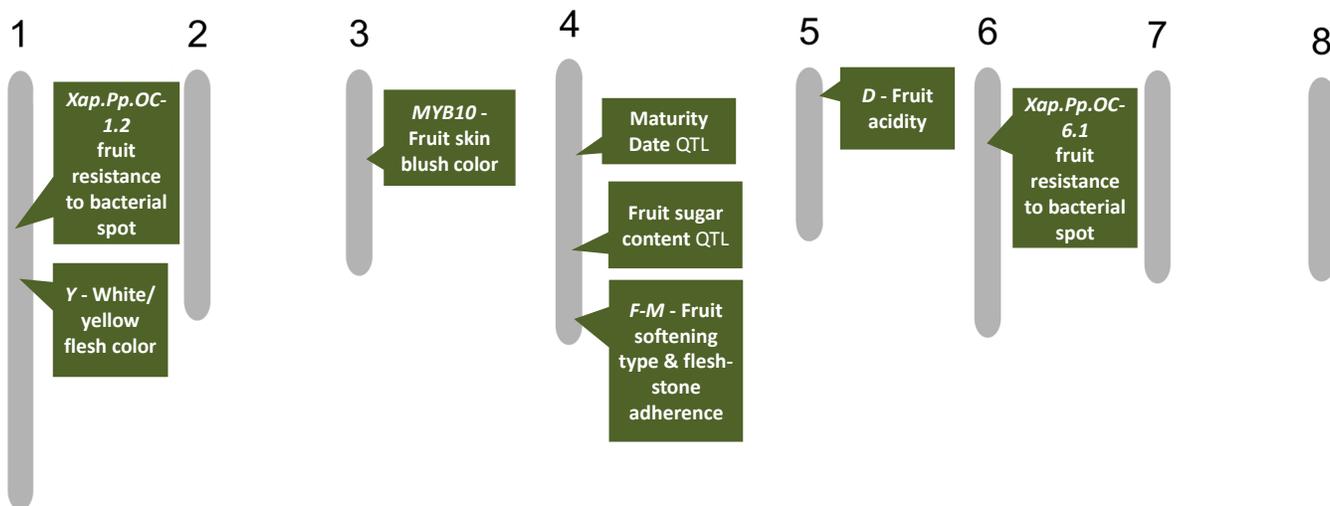
“Jewel in the Genome” is a phrase used in RosBREED to identify valuable rosaceous genetic discoveries that have been put into breeding application. In this final article, the placement of these jewels is illustrated on the crop chromosomes collectively illustrating the growing genetic “necklace”. Knowledge of these jewels and their locations relative to each other is being used to increase the efficiency of rosaceous crop breeding. Putting these genetic discoveries into application has been one of the hallmark outcomes of RosBREED.



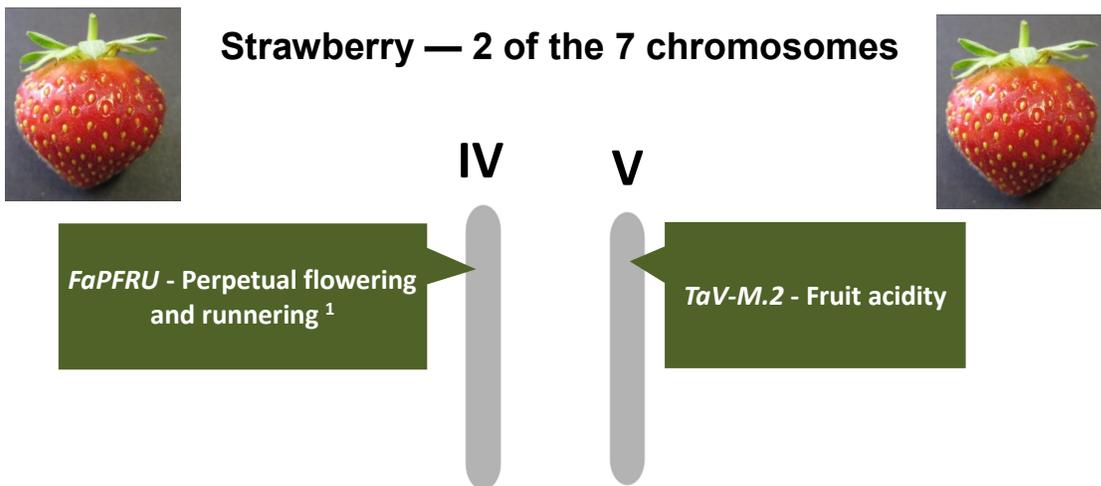
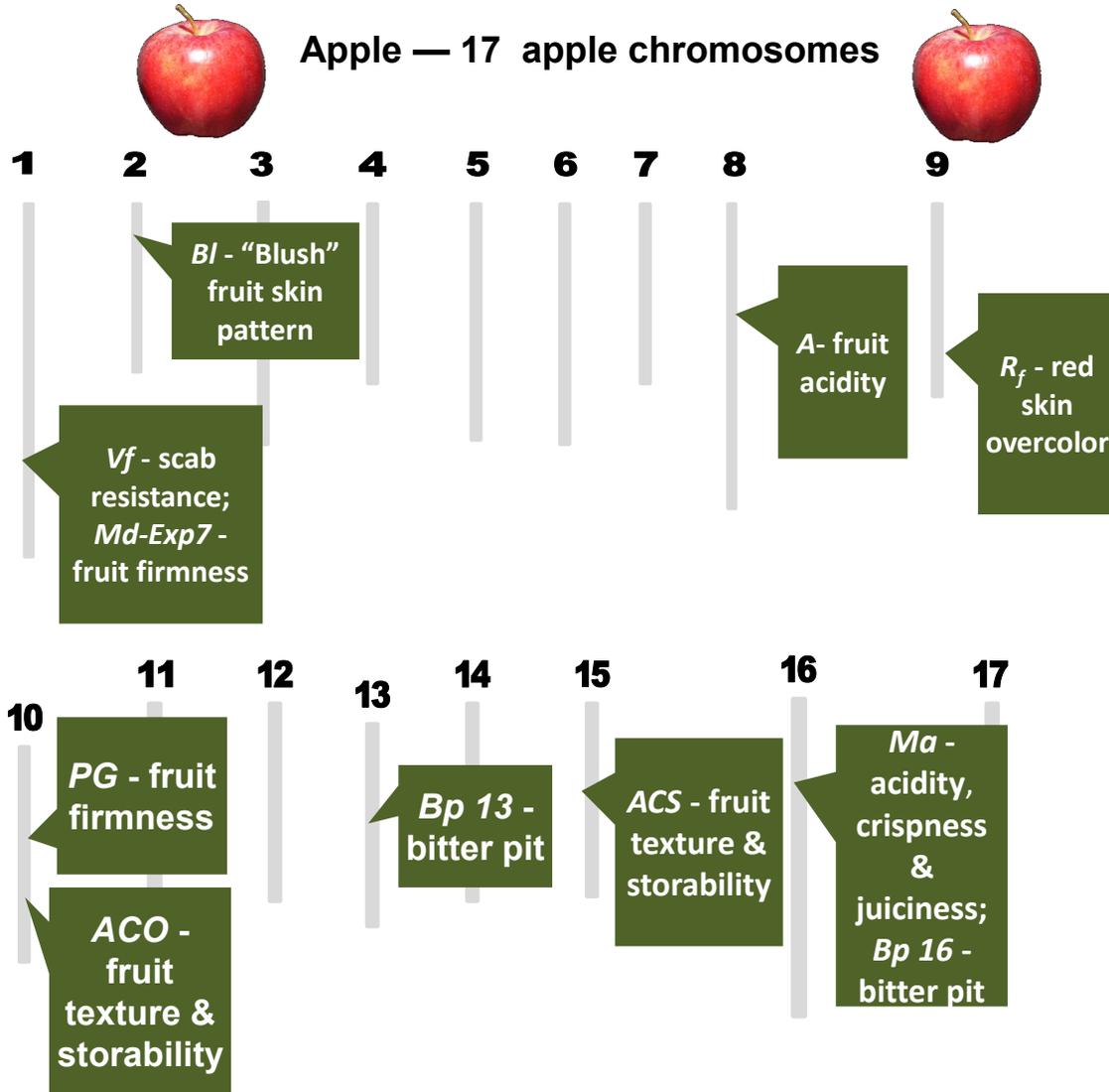
Cherry — 8 cherry chromosomes



Peach — Eight peach chromosomes



Jewels in the genome: The Necklace, cont.



¹ Gaston A, Perrotte J, Lerceteau-Köhler E, Rousseau-Gueutin M, Petit A, Hernould M, Rothan C, Denoyes B. 2013. PFRU, a single dominant locus regulate the balance between sexual and asexual plant reproduction in cultivated strawberry. J Expt. Bot. doi:10.1093/jxb/ert047.