

# Field Day: Two Case Studies in G2P



Agricultural Genome to  
Phenome Initiative



## Breeding Challenges in Fruiting Trees

How to rapidly generate novel traits in a single or related species across different ecological adaptations? Using two case studies, one in fruit trees and one in a berry crop, this field day will explore differences that emerge in controlled versus natural environments and between commercial and wild varieties.

Mutation breeding in pears has enabled the generation of putative aneuploids, which are expected to segregate for various traits. Crosses between wild and cultivated *Vaccinium* spp. have been achieved. Both populations are being advanced using processes based in greenhouses. Discussion will focus on how genomics are being used to characterize the populations and phenomics to make desirable selections.



### Presenter:

Amit Dhingra is a professor of genomics and biotechnology. His group utilizes greenhouse-based approaches to enable breeding of perennial horticulture crops at Washington State University.



**July 21, 2021**

**10:30 AM–12:00 PM**  
(Central Time, –5 GMT)

### Purpose

In two case studies, we'll explore the affects of environmental adaption on phenotypes.

**Register for this Zoom virtual meeting:**

<https://tinyurl.com/AG2PI-FD9>

Upon registration, you will receive a confirmation email with information about joining the meeting.

A recording will be available at a later date at: [ag2pi.org/](http://ag2pi.org/)



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