

Development of Carrot Breeding Pool Populations for the Carrot SCRI Project 2021 progress

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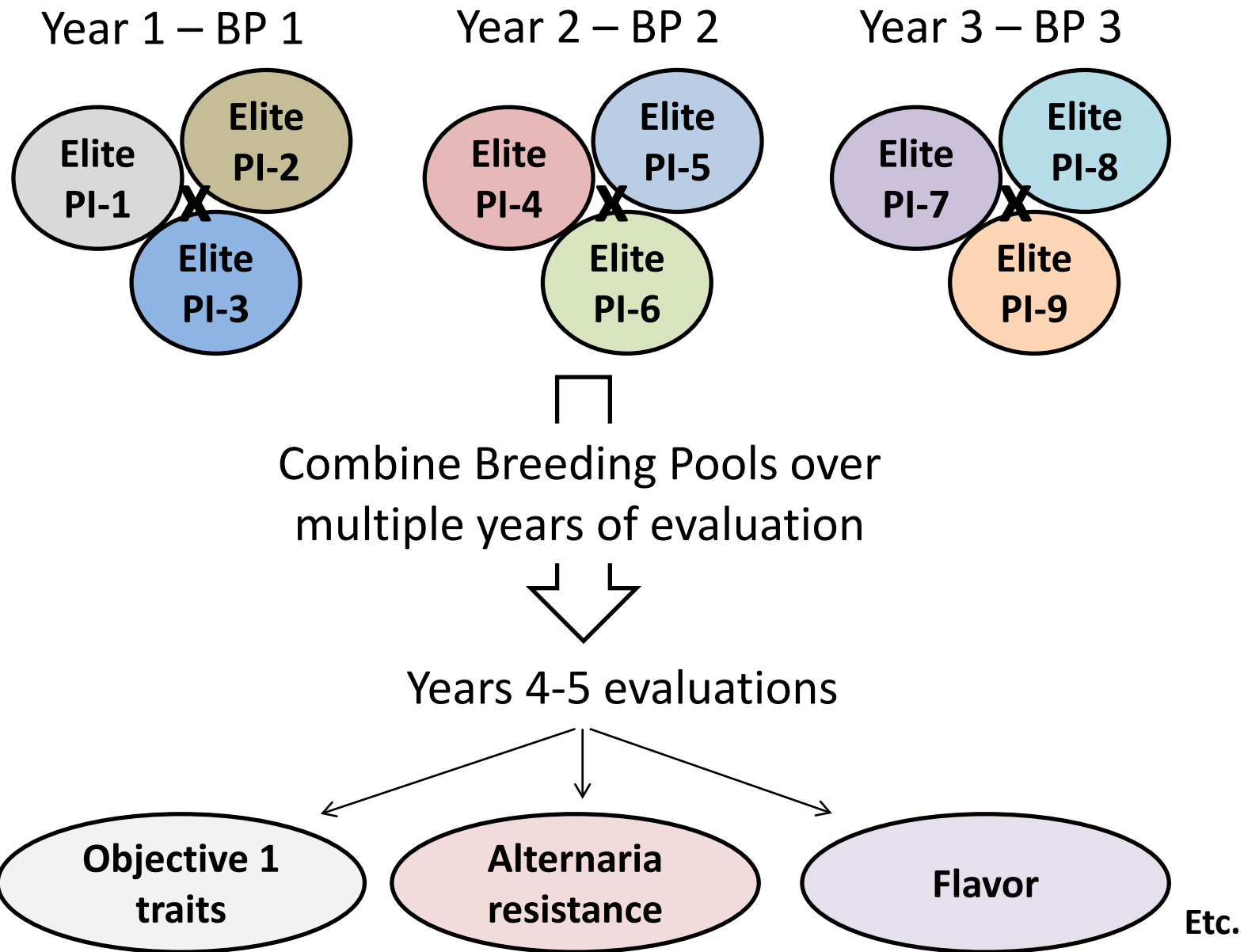
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Objective 3 - Initiate the development and evaluation of carrot breeding pools

- After evaluating PIs and inbreds in Objective 1, elite individuals from diverse genetic sources will be used to develop breeding pools (BPs)
 - Selected roots from CA and WA sent to WI
- Among selected PIs, elite plants will be intermated with plants of like-performance
 - These are the breeding pools
- A subset of other phenotyped plants will be self-pollinated
 - To establish a collection of families for subsequent phenotyping and genetic analysis



Breeding pool development and evaluation strategy

Year 4-5 testing of breeding pools

- Alternaria leaf blight resistance
- Top size
- Flavor
- Carotenoids
- Elite selections being developed
 - Nematode resistance
 - Flavor
 - Sugars
 - Carotenoids, anthocyanins

Breeding pool populations will
be released

