



Molecular Breeding

Molecular breeding techniques make use of DNA sequencing and PCR diagnosis to establish the success or failure of a breeding experiment early. One example would be breeding resistance genes to fire blight into susceptible (but tasty!) cultivars. Rather than waiting the full time it takes from pollination to fruit ripening, seed harvesting, planting, and infection, seeds or seedlings can be screened early for resistance.

Suitable	No: long time frame; sequencing might be overkill
Organism	Varies
Substrate	DNA
Full Genome	No
Genome size	Varies
Reference available	Varies

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