

WP4
Task 4.3

Exploiting the genetic diversity of
broomrapes (Lead by AUA)

Did you know?

Different broomrape species can be detected fast, easily and reliably through High Resolution Melting (HRM) analysis.



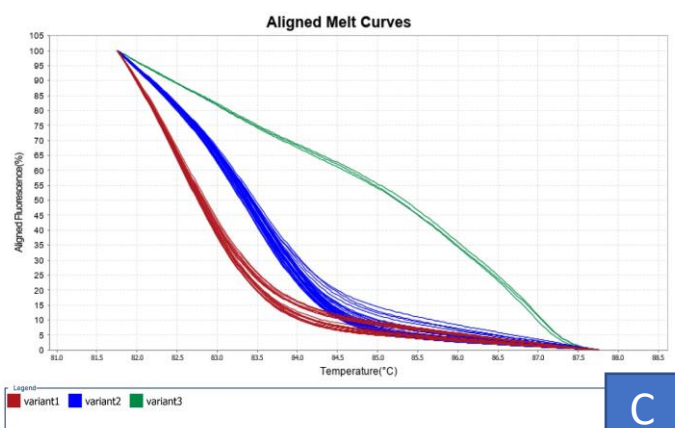
A

Broomrape genetic material was collected from
A) field trials around Greece
B) the stock collection of Benaki Phytopathological Institute



B

- DNA was extracted from broomrape tissue
- Three appropriate primer pairs were used for identifying differences of the following genes (*trnI*, *rbcL*, *ITS*)
- DNA samples sent for both DNaseq and also analyzed with HRM



C

ITS gene different profiles across the 3 different broomrape species studied.

HRM results indicate clear differentiation between the three broomrape species (*P. ramosa*, *P. aegyptiaca*, *P. cumana*) tested for all the designed primer pairs (Figure C).