

Developing a C genome diversity set

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Brassica 'C' genome wild species

98 accessions covering 14 species

- *B. alboglabra* (1)
- *B. atlantica* (2)
- *B. balearica* (1)
- *B. bourgaei* (1)
- *B. cretica* (8)
- *B. hilarionis* (3)
- *B. incana* (11)
- *B. insularis* (4)
- *B. macrocarpa* (16)
- *B. maurorum* (1)
- *B. montana* (4)
- *B. oleracea* (28)
- *B. rupestris* (5)
- *B. villosa* (13)

Strategy

Sow 2 plants/accession

When a plant flowers!

Extract DNA
sample

Archive
sub
sample

GenomiPhi

Screen with panel
of mapped SSRs

Cross to AGSLDH150

MC F1s

Select SC, 'rapid'
flowering DH lines

Screen with panel of
SSRs

Select 3-4 DH lines to
maximise wild sp alleles

Produce seed

Self to produce S1
seed

Progress to date

- 94 accessions - 2 misclassified, 2-plants died
- 6 accessions - plants still not flowered after 4 yrs!
- DNA extracted from all plants (genomiPhied when crossed to *oleracea* successfully)
- SSR screening initiated
- 84 accessions -selfed to produce S1 seed
- 79 accessions - crossed to *B. oleracea* - min 50 seeds
- Embryos produced from 28 F1 lines

