



Project Outcomes –DAN117			
Population	Phenotyping	Marker System	Status
Skipton/Ag-Spectrum	SSI Field (2010)	SSR, DArT, SNP array	Theor Appl Genet 2012 Plant Biotech J (under review)
Maxol/Westar Columbus/Westar	SSI	SSR, DArT, GBS	Crop & Pasture Research 2013
BLN2762/Surpass400	SSI, Field	SSR, DArT GBS	In preparation PLOS ONE
Ag-Castle/Westar-10	SSI		In preparation
DHC2261/RR005	Field (2010) ACS (2012)	60K SNP	In preparation
DHC2211/RP012*S	Field (2012)	60K SNP	In preparation
08-6702P	Field (2012)	60K SNP	Analysis in progress
RP004/Ag-Outback	SSI APR	60K SNP	In preparation
Skipton*2/Ag-Spectrum -BC1DH	Tub test (2013)	GBS (~7500 markers)	
11-5107	SSI Field (2013)-Wagga Field (2013)-Pacseed	GBS (~17000 markers)	In progress
Tapidor/Ningyou7	-	SSR, AFLP, genic, DArT	NSW Primary Industries



- Several hundred lines were screened for resistance to blackleg disease under field conditions at Wagga
- Lines with field resistance to blackleg disease were identified and some of them were passed to Australian canola breeding programs
- · Some lines were also screened with single spore isolates
- Potential new genes were identified
- Plan to develop mapping populations
- Understand genetics underlying resistance
- Map loci associated with resistance to L. maculans



Beyond Feb 2014

- Map seedling and adult plant resistance genes in the canola and its ancestral species
 - Brassica rapa
 - Brassica oleracea
- VDEPI (major node for blackleg research) will phenotype all germplasm and make data available to marker program to identify molecular markers to NSWDPI
- NSWDPI will act as a supporting agency for phenotyping blackleg resistance under NBGIP/GRDC funded research.

