

Early vigour responses of
Brassica napus diversity panel to
seed treatments.

Natalia Stawniak
Research Associate

Bancroft Lab

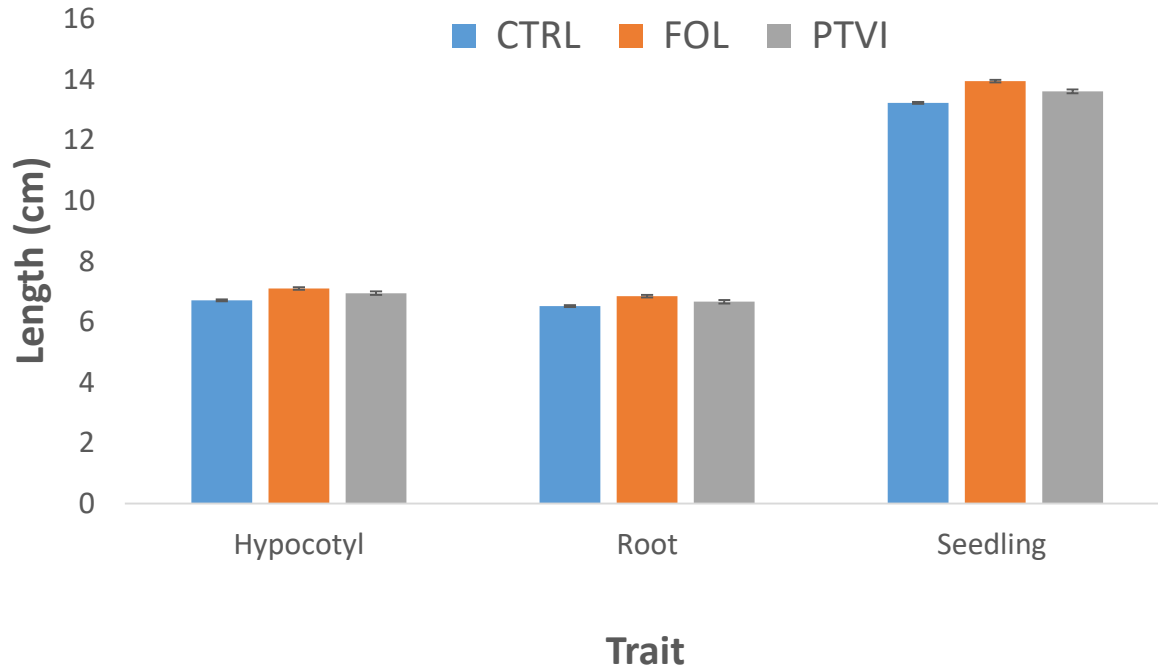


Objectives

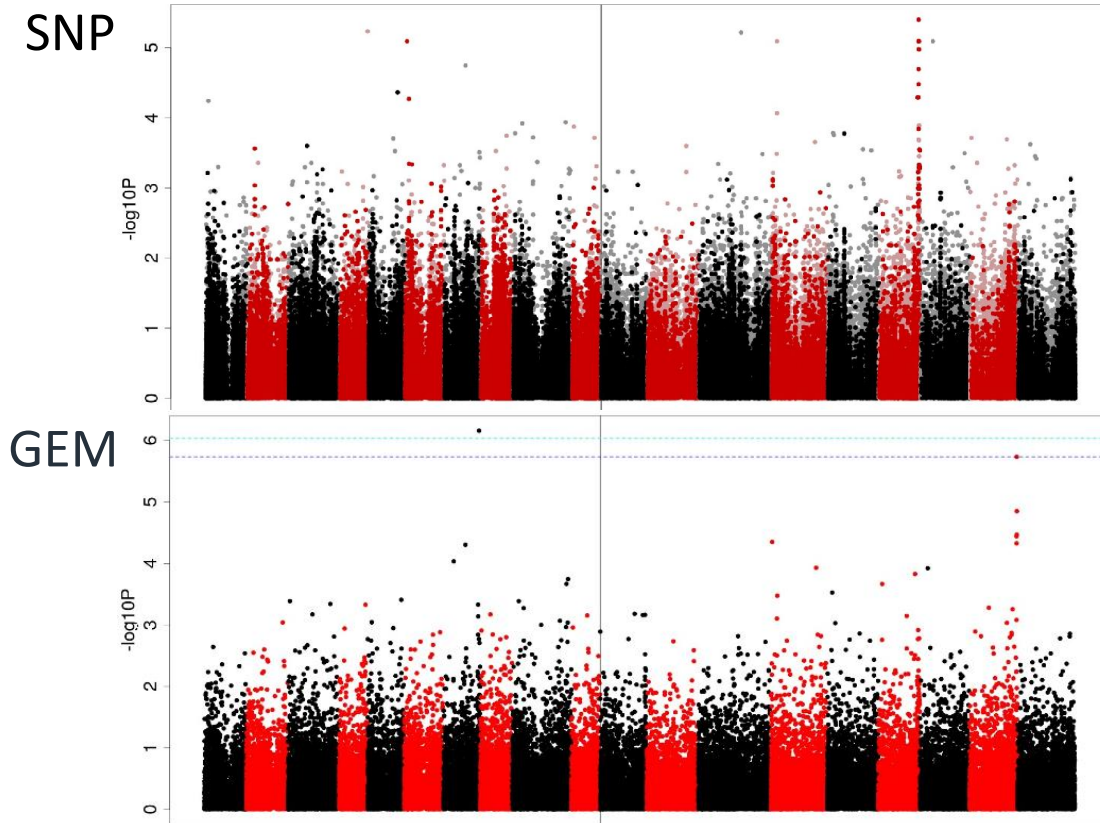
- Identify genes or markers sensitive to seed treatments and able to modulate plant metabolism by using AT
- Determine varietal differences in responses to seed treatments in field and *in vitro* conditions
- Exploring epigenetic variation



Seedling growth



Identification of responses to seed treatments using AT



Validation – differential gene expression

Accession Name	Overall vigour	Plant/m2	Responses to seed treatments
Jessica	5.0	38	-9.7
Lirakotta	2.7	27	7.9
Maplus	4.3	34	15.9
Moana	5.4	43	5.8

Conclusions

- Various modes of action observed for selected seed treatments
- Seeds treatments influence seed viability
- Responses of oilseed rape are complex and differential gene expression will help us to validate results of AT

Acknowledgments

Professor Ian Bancroft Group

