## e782

## Keynote Lectures

## GWAS - where are we now?



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Gregor Mendel Institute of Molecular Plant Biology, Vienna, Austria Farlow A (2014) EMBnet.journal 20(Suppl A), e782. http://dx.doi.org/10.14806/ej.20.A.782

powerful tool for establishing correlation between offers an important insight into the fundamental phenotype and genotype. For the self-fertilising plant Arabidopsis thaliana, more than 1000 inbred lines have been 'fully sequenced', removing the cost of genotyping for a set of lines that can be phenotyped over and over. Does having full sequence make a difference? How important used to follow the fate of new centromeric reis sample size and line selection? The answers from Arabidopsis are that it is highly dependent

Genome-Wide Association Studies (GWAS) are a on trait architecture and population structure. This advantages and limitation of GWAS.

> I will also discuss how Next Generation Sequencing (NGS) data allows one to explore a number of 'genomic traits' such as genome size and centromere length, and how GWAS can be peats in the population.