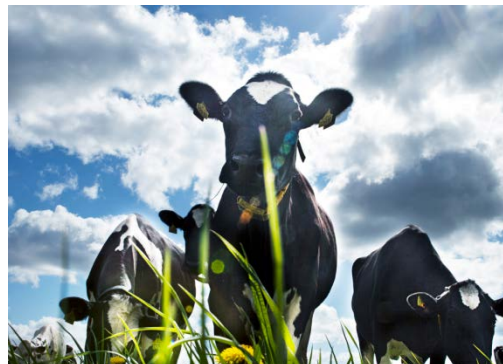


# Genomic prediction in tetraploid ryegrass

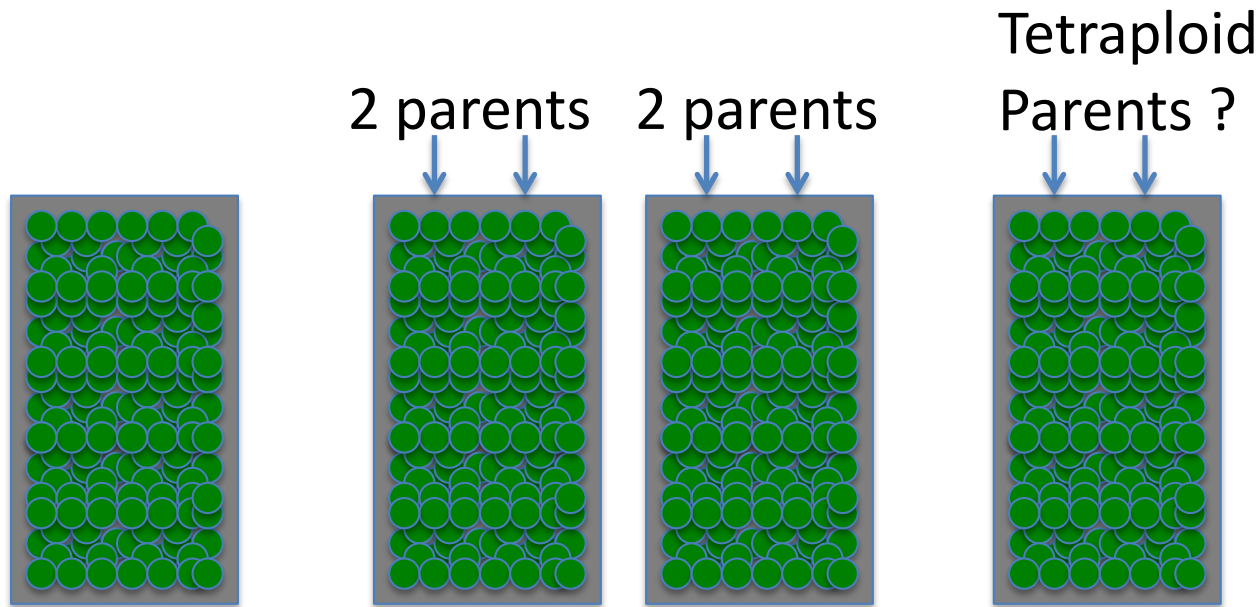
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# Grass breeding in pools



Total Yield  
↓  
Pooled DNA sample  
→ Genotype-by-sequencing

- ✓ Still good  $h^2$ ?
- ✓ Still good prediction?

# Prediction in tetraploid ryegrass pools

- Prediction accuracy is lower than in diploid ryegrass pools
- Tetraploids require more SNPs
- Sequencing coverage relatively less important
- Use of sequencing useful for pools, polyploids, and *pools of polyploids*

