**Motivation**

- R scripting for genetics
- Mean and variance of populations
- Inbreeding, co-ancestry, & individual relatedness
- Changes in allele frequency & population differentiation
- Variance of gene frequency
- Heritability, selection, & genetic gain
- Indirect selection, index selection, & GxE analysis
- Gene mapping, QTL and GWAS
- Genomic predictions
  - Featured by real-world breeding perspective, industry representative, & the latest discussions and developments in the field of predictive breeding

**Prerequisites**

- Sufficient knowledge of genetics, breeding science, probability, statistics, & experimental designs

**Text**

Douglas S. Falconer & Trudy F.C. Mackay
Introduction to Quantitative Genetics, 4th Edition

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