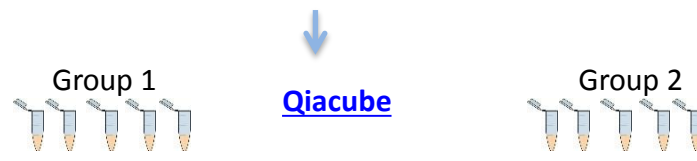




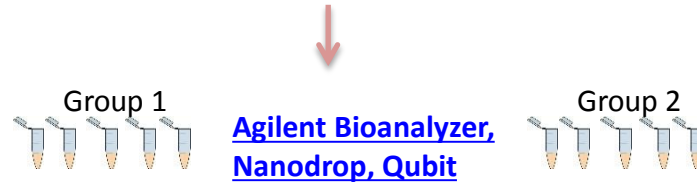
Genetic Variation and Discovery Experimental Workflow

Group 1 (Ref) Group 2 (Experimental) Group N

Step 1: Experimental Design



Step 2: Isolation of Nucleic Acid



Step 3: Quality Control

Affymetrix Microarray

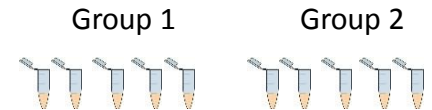
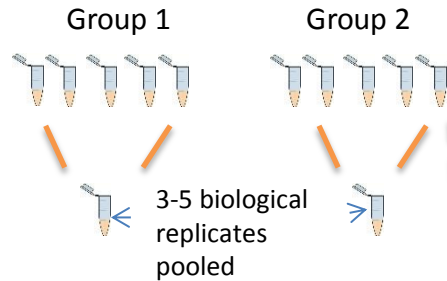
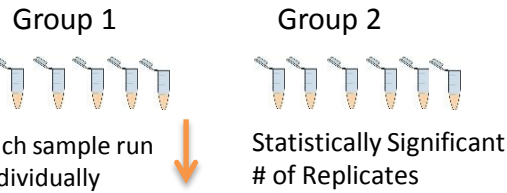
Next Generation Sequencing

Step 4: Application

Affymetrix Option A:
(Focus on individual Response*)

Affymetrix Option B:
(Focus on Group Response*)

Option A: PGM*
Option B: Proton*



Multiple barcoded samples



Partek;
Affymetrix Genotyping Console;
Affymetrix Transcriptome Analysis Console

Partek; Microsoft Excel; DAVID; GenMapp

CLC; Partek (Bioinformatics analysis assistance needed)

Validation using biological replicates

Roche LC480
Affymetrix Quantigene
Fluidigm Biomark

Step 5: Bioinformatics and Validation

*Consultation Provided