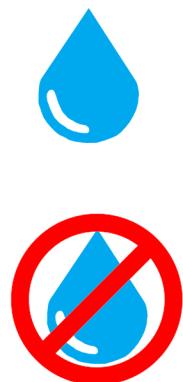


A Experimental Manipulation

Laboratory treatments:



Dehydration



Diet

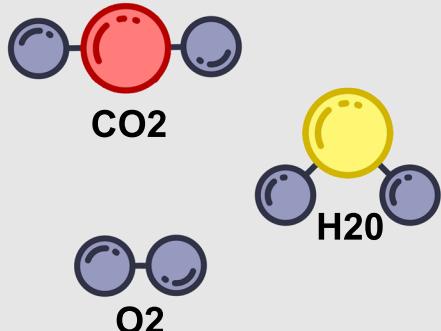
Low Carb

High Fat

High Carb

Low Fat

B Physiology



Metabolic Phenotyping

Baseline Measurements

11	20
Na	Ca
19	12
K	Mg

Electrolytic Response

vs.

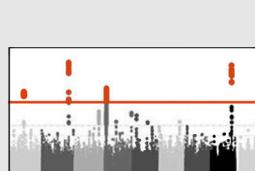
Treatments
(Dehydration/Diet)



Physical Response

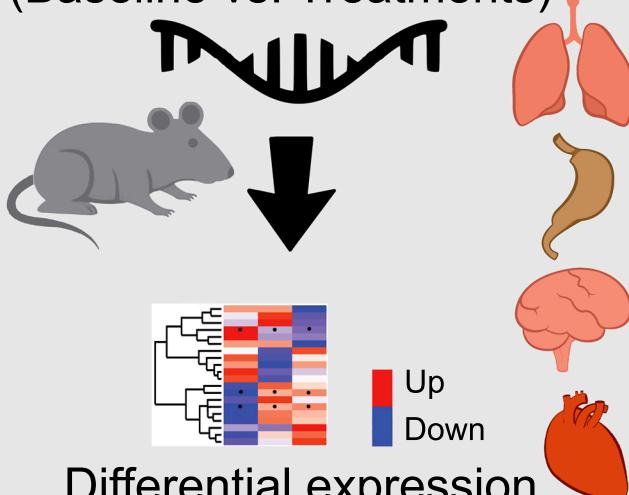
C Genomics

Multi-species Chromosome-level genome assemblies



Structural variation + Identify candidate loci

Multi-tissue RNAseq
(Baseline vs. Treatments)



Differential expression