

IFAFS Project Milestones

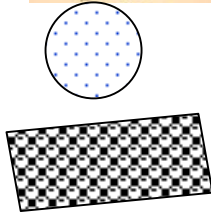
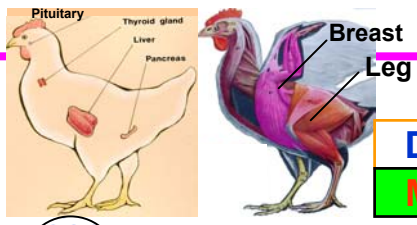
2001

Isolate mRNAs from target tissues for cDNA libraries

Make cDNA copies and clone into bacteria
Normalize and subtract tissue libraries

Breed parental stocks

Sequence cDNA clones:
submit ESTs to GenBank
determine gene function (Blast)



Delaware
Maryland

DuPont
Delaware



2002

Collect tissue from divergent INRA lines
Isolate mRNA for hybridization studies

Make backcrosses of parent stocks:
Print 3000 unique clones/library
onto nylon membranes
Begin hybridizations to microarrays

Phenotype and genotype F2 populations
to determine quantitative trait loci (QTL)

2003

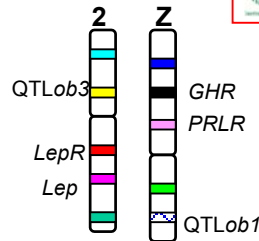
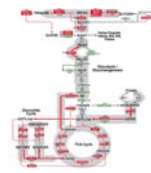
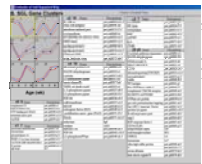
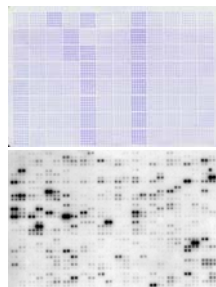
Identify candidate genes or gene clusters
involved in expression of growth traits

Superimpose gene expression data onto
metabolic and endocrine pathways

2004

Make linkage maps of QTLs and candidate
genes or gene clusters

Enter gene expression data into public
database



Maryland
Delaware
Georgia

Delaware
Maryland

Georgia
Delaware

Delaware
Maryland

Delaware
Maryland

Delaware
Maryland

Georgia