GAIN Genotyping Update

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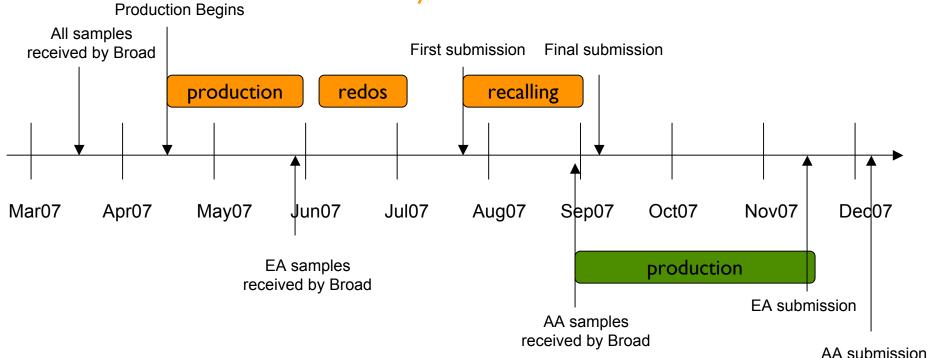


GAIN Genotyping at Broad

- Approximately I 1,000 samples from three studies will be genotyped at Broad
- Affymetrix donated chips + kits
- Broad is supporting processing funds from:
 - Internal funds
 - NCRR genotyping grant subsidy program

GAIN Projects: Timeline

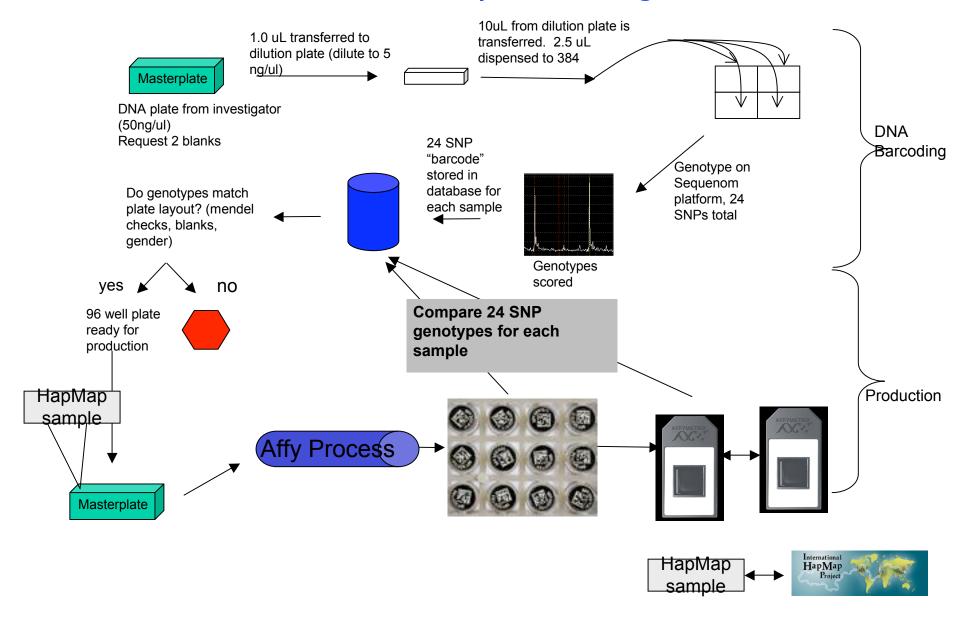
Warram study: Diabetic Nephropathy
3,118 samples
Affymetrix 5.0

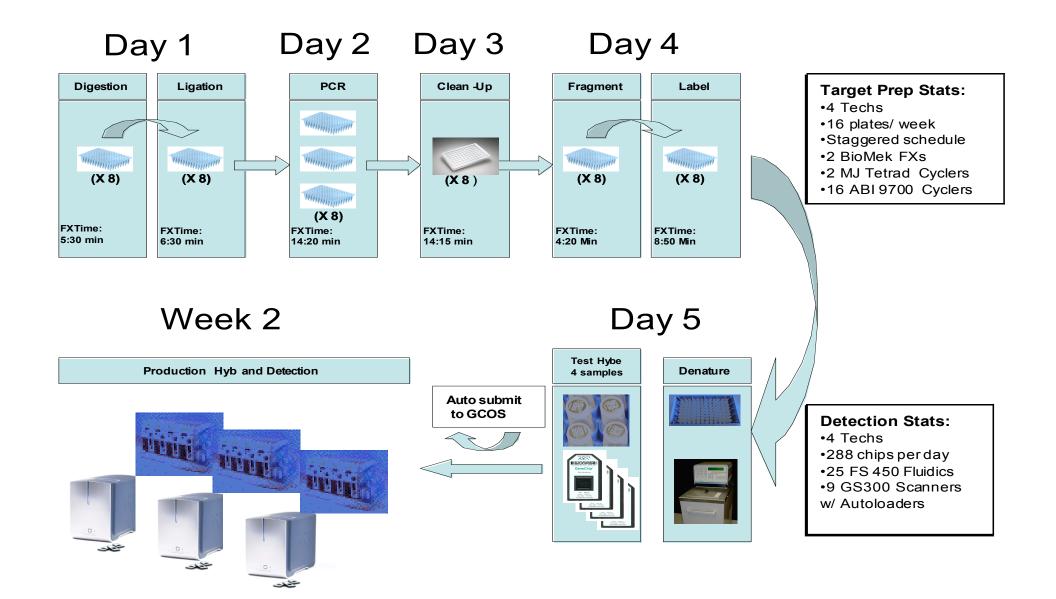


Gejman : Schizophrenia / Kelsoe : Bipolar Disorder

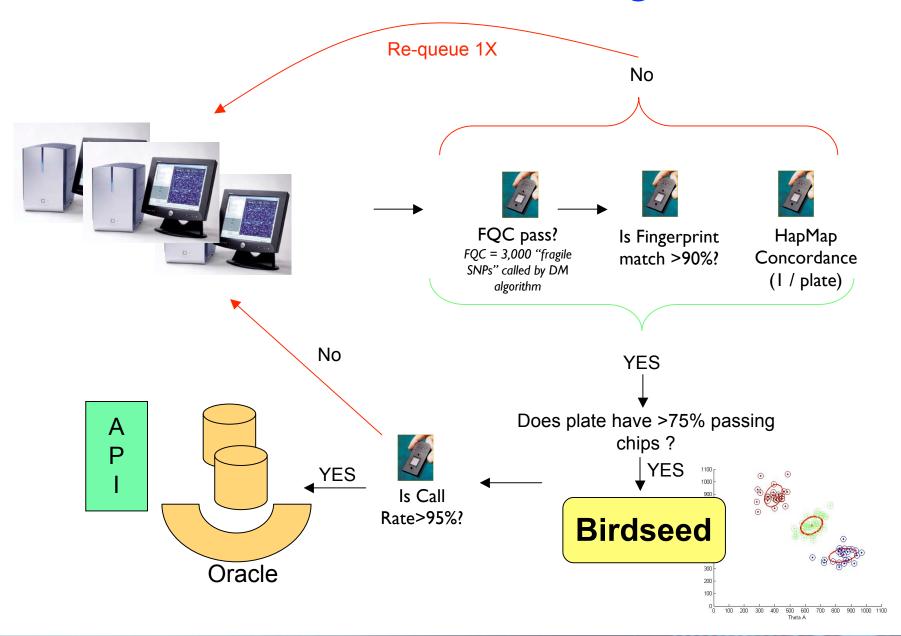
7,000 samples Affymetrix 6.0

Workflow: sample tracking, QC

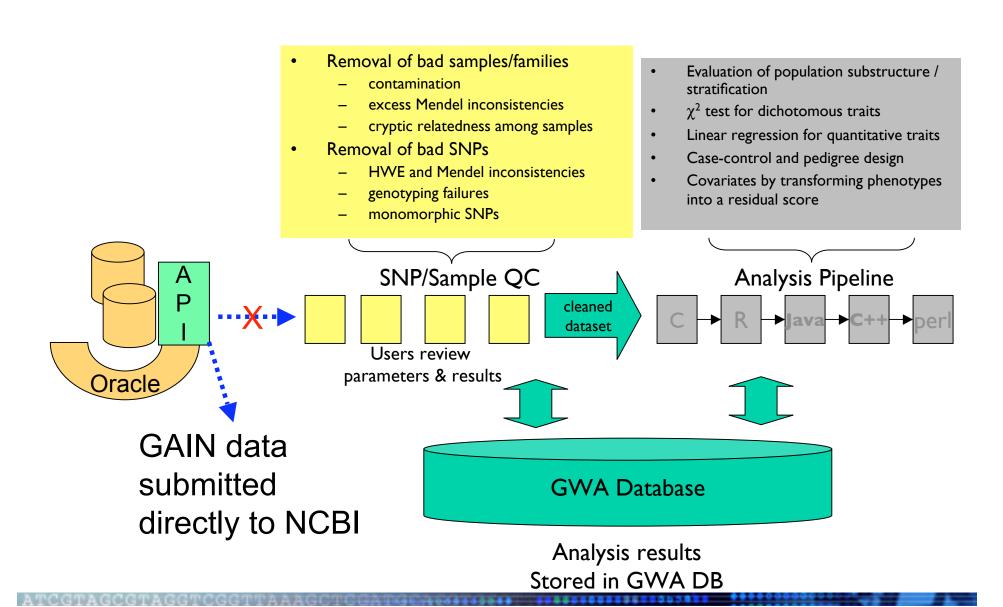




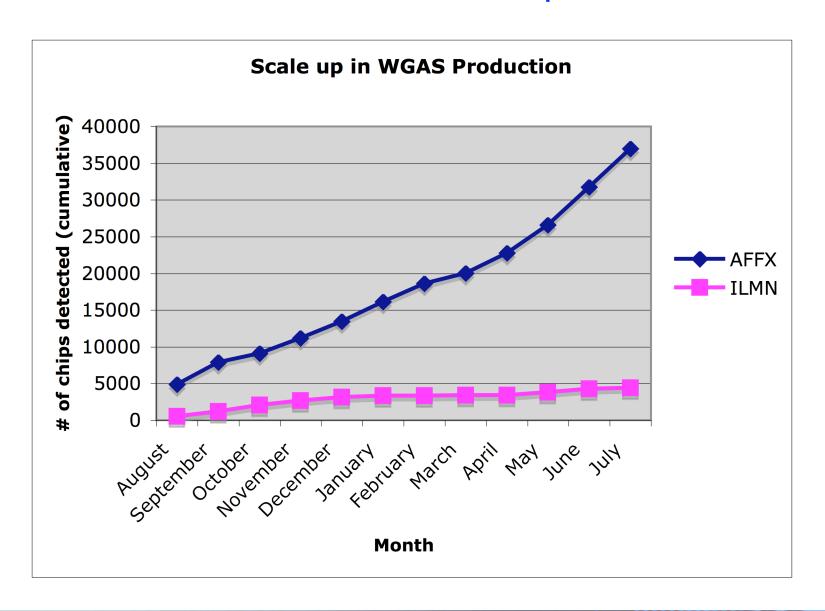
Data Flow and Filtering



Broad Data Analysis Pipeline



Production Scale Up



Completed GWAS Studies

Genome-wide Association Studies Complete									
Study	Multiple Sclerosis	Type II Diabetes	Bipolar Disorder	Lupus	AML	Autism	Diabetic Nephropathy	Schizophrenia	Myocardial Infarction
Investigators	IMSGC	DGI	Sklar/Scholnik	SLEGEN	Brown (MGH)	Autism Consortium	James Warram (Joslin)	Sklar/Sckolnick	MIGen
Platform	Affy 500K	Affy 500K	Affy 500K	ILMN 300	ILMN 300	Affy 5.0	Affy 5.0	Affy 6.0	Affy 6.0
Samples Submitted	1545	3313	4342	1165	2003	3166	3118	4820	5240
Samples Successful	1510 (98%)	3160 (95%)	4171 (96%)	941 (95%)	1760 (97%)	3103 (98%)	2985 (96%)	pending	5082 (97%)

30,000 samples scanned ~40,000 samples queued up