PDX Integrator

Terry Meehan

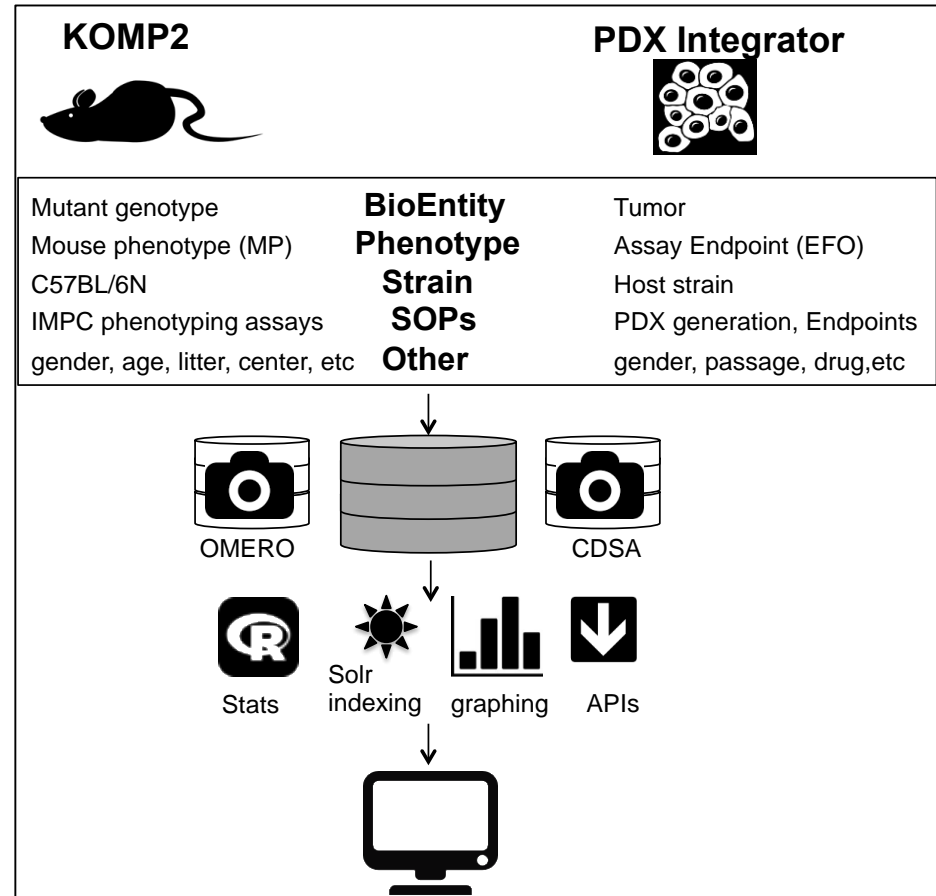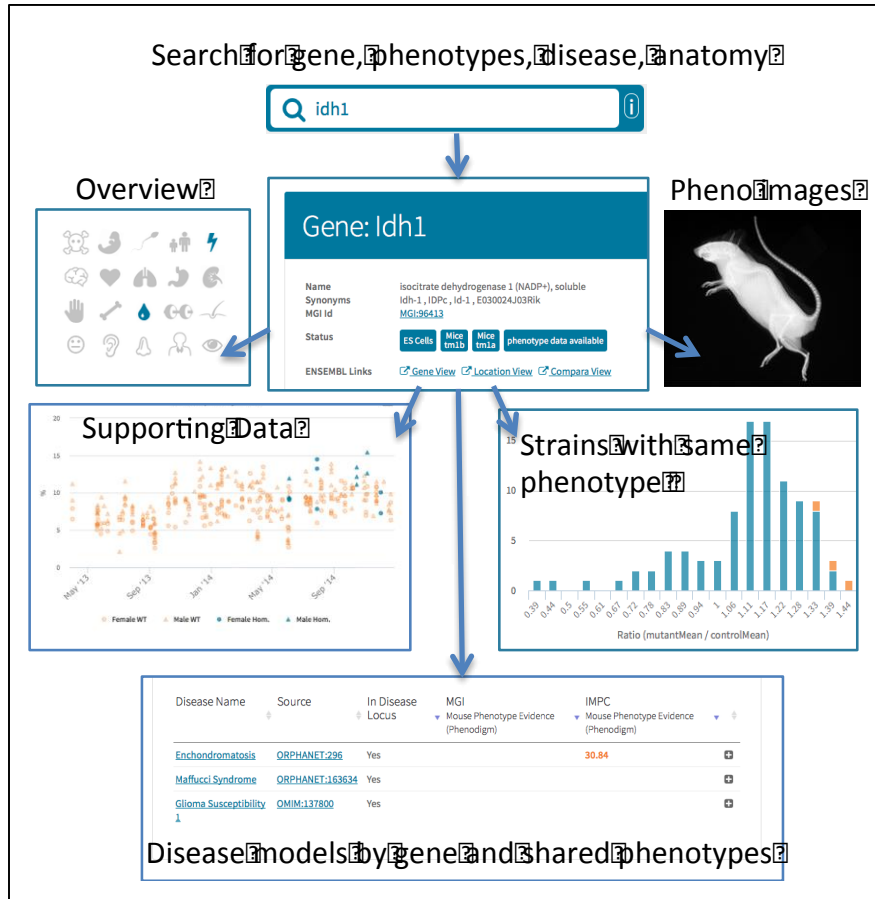Coordinator Mouse Informatics

EMBL-EBI

Hinxton, Cambridge, UK

To develop a PDX mouse model, a researcher grafts a bit of a tumor into a handful of mice. Tumor sections from a successful graft expand, then are harvested, divided, and regrafted into many more mice, providing a large number of animals on which to test a variety of drugs or drug combinations.

EMBL-EBI
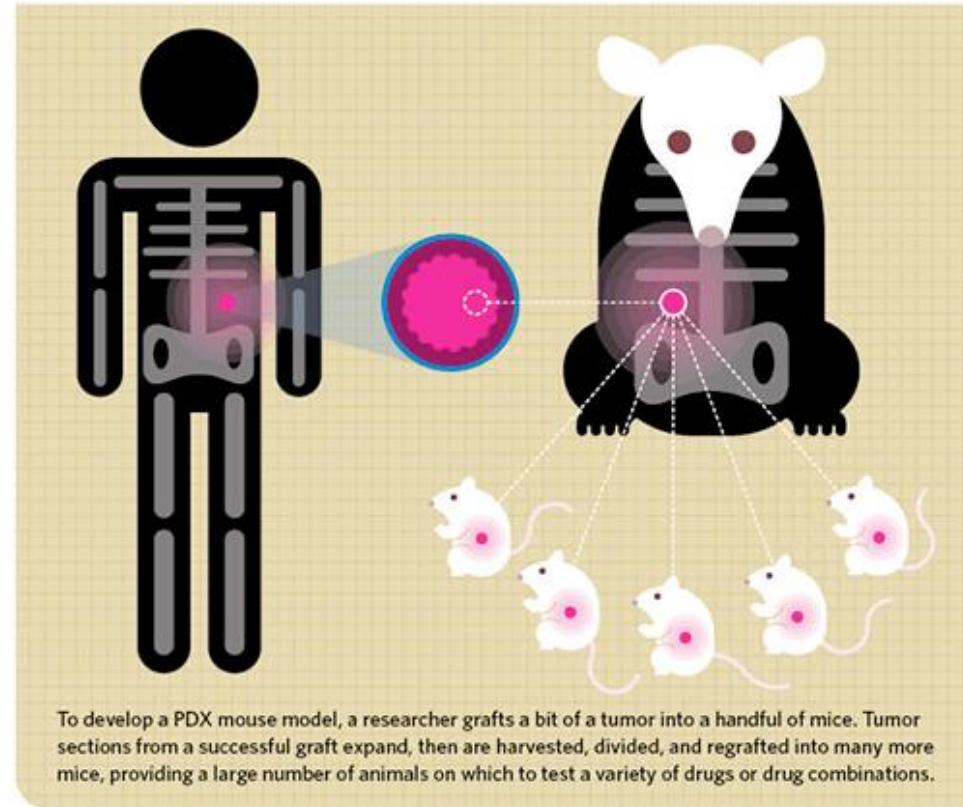
A PDX resource
by repurposing KOMP²/IMPC Infrastructure

Search for gene, phenotypes, disease, anatomy

🔍 idh1 ⓘ

Overview

Pheno images

Gene: Idh1

Name	isocitrate dehydrogenase 1 (NADP+), soluble
Synonyms	Idh-1 , IDPc , Id-1 , E030024J03Rik
MGI Id	MGI:96413
Status	ES Cells Mice tm1b Mice tm1a phenotype data available
ENSEMBL Links	⧉ Gene View ⧉ Location View ⧉ Compara View

Supporting Data

● Female WT ▲ Male WT ● Female Hom. ▲ Male Hom.

Strains with same phenotype

Ratio (mutantMean / controlMean)

Disease Name	Source	In Disease Locus	MGI Mouse Phenotype Evidence (Phenodigm)	IMPC Mouse Phenotype Evidence (Phenodigm)	
Enchondromatosis	ORPHANET:296	Yes			➕
Maffucci Syndrome	ORPHANET:163634	Yes		30.84	➕
Glioma Susceptibility 1	OMIM:137800	Yes			➕

Disease models by gene and shared phenotypes

mousephenotype.org

KOMP2

PDX Integrator

	BioEntity	
Mutant genotype	**Phenotype**	Tumor
Mouse phenotype (MP)	**Strain**	Assay Endpoint (EFO)
C57BL/6N	**SOPs**	Host strain
IMPC phenotyping assays	**Other**	PDX generation, Endpoints
gender, age, litter, center, etc		gender, passage, drug,etc

OMERO

CDSA

Stats

Solr indexing

graphing

APIs

EMBL-EBI