

The PDX Integrator



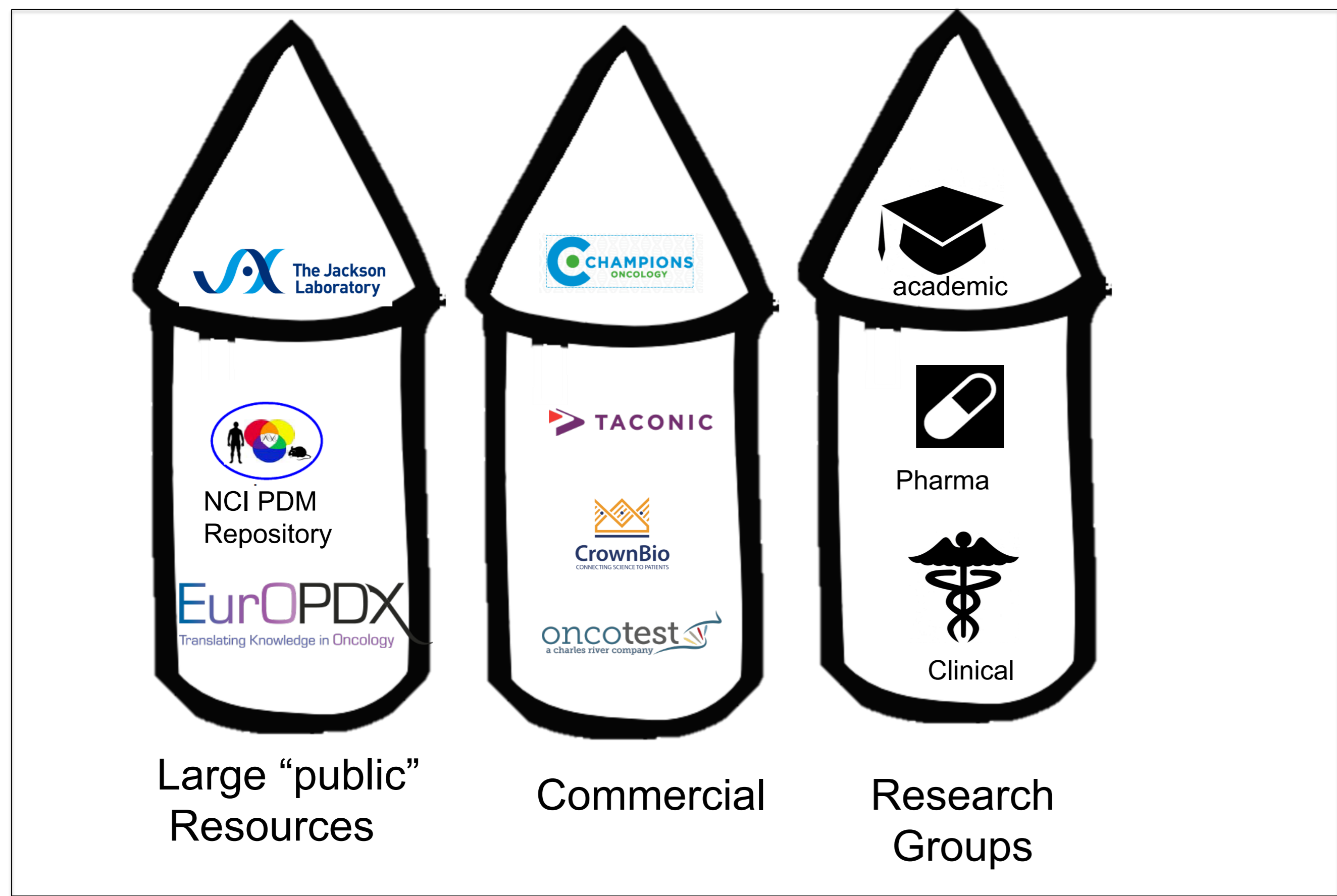
Introduction

Patient Derived Xenografts are a critical and growing resource for cancer biology. They inform the understanding of cancer progression, treatment and represent a valuable and under integrated resource. These data consist of complex meta data related to the tumor and its progression in mouse model. Omics, drug, assay and image data provide rich characterization of PDXs and offer integration potential with existing tools, data archives and analysis platforms. The PDX Integrator will build on existing infrastructure developed for the Knockout Mouse Project 2 and the IMPC- International Mouse Phenotyping Consortium- to create a new resource to allow for the upload, archiving, and integration of all data related to PDX models.

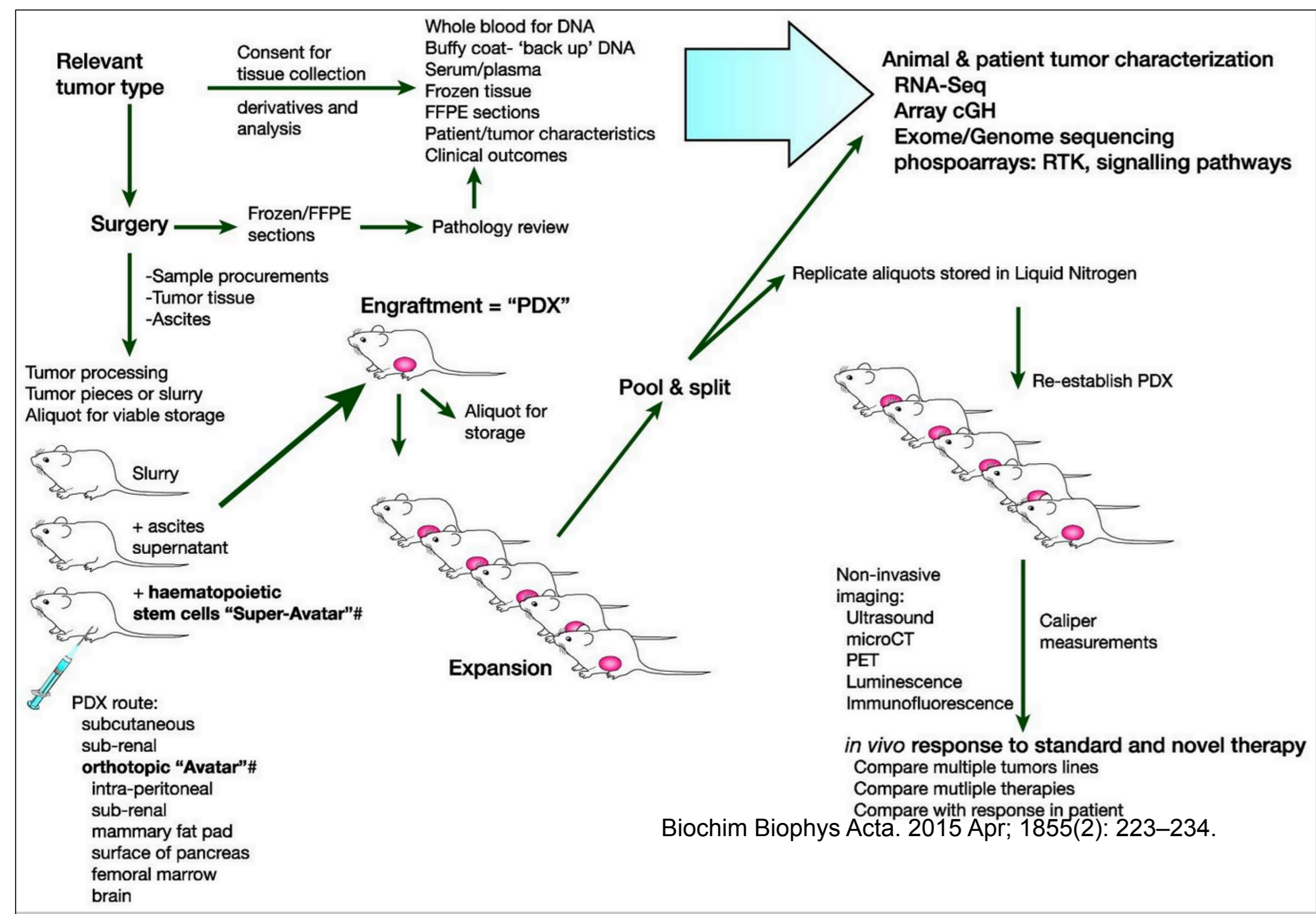
Patient Derived Xenograft Mice



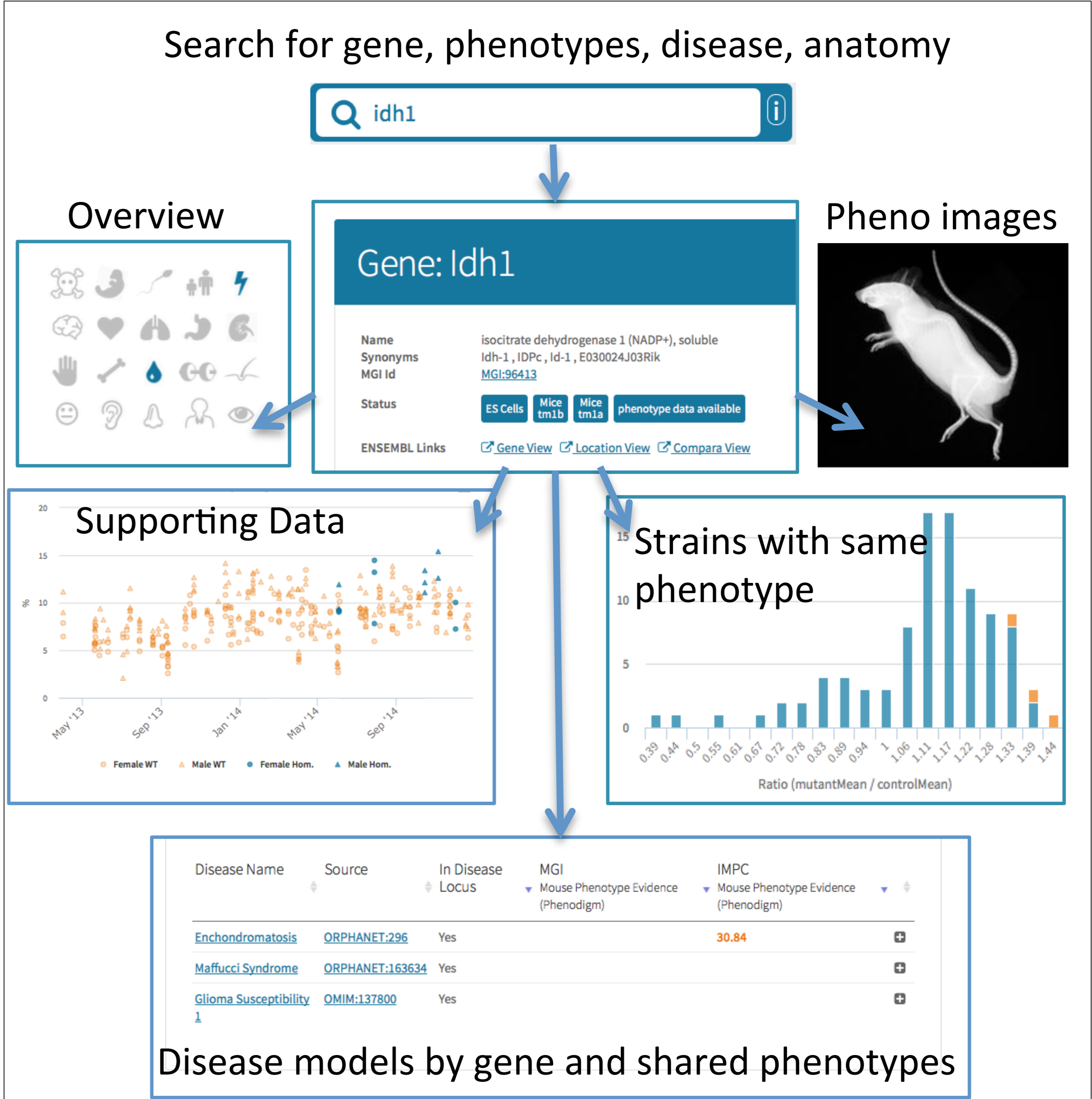
PDX Resources Siloed



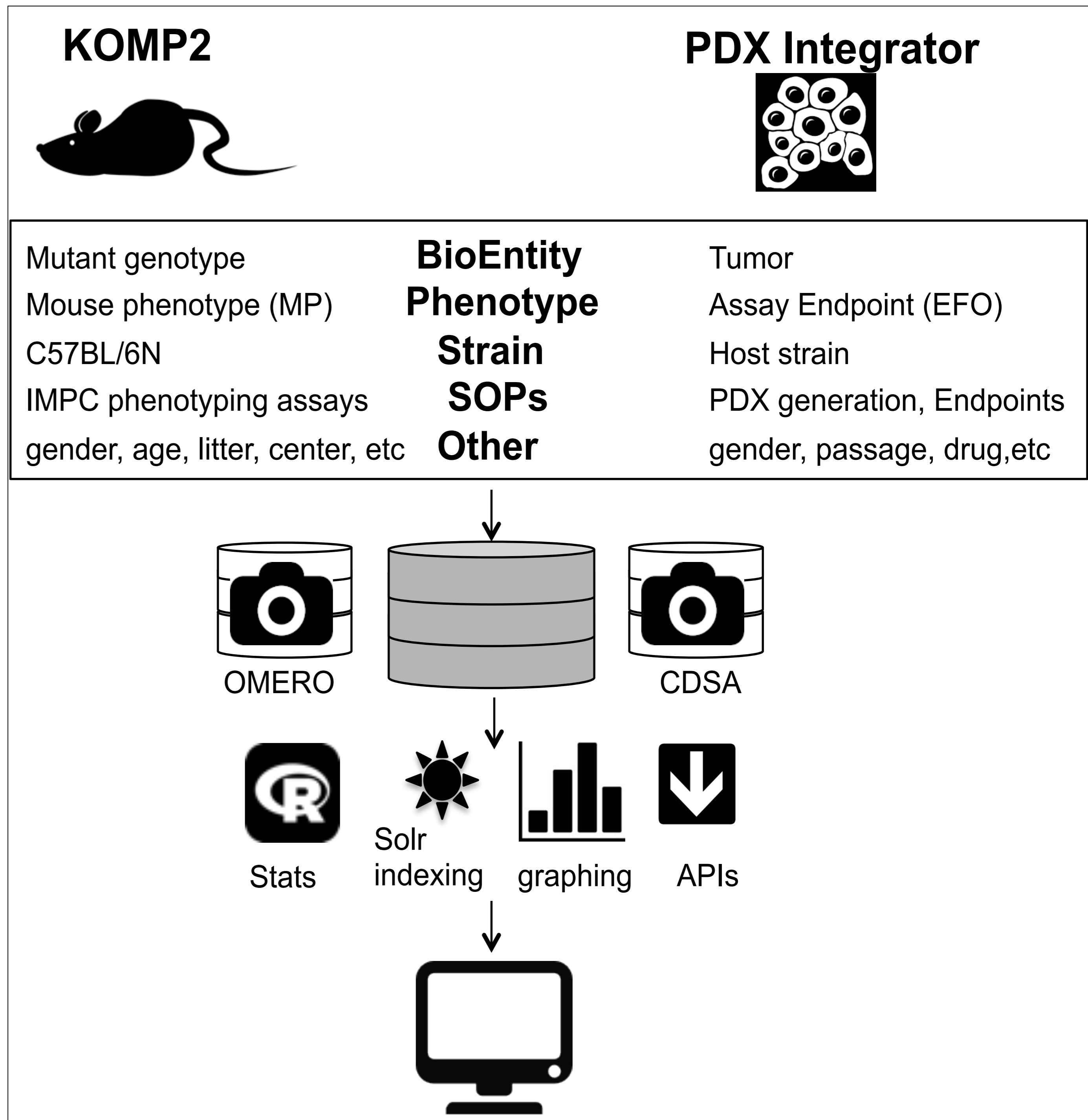
Complex with lack of standards



KOMP² and IMPC Informatics



EBI Mouse informatics is funded by the KOMP2 NIH Common fund project to support the IMPC in its goal of producing and characterizing a knockout mouse strain for every gene. We support strain tracking, SOPs, data upload, analysis, archiving, integration with human disease resources. See more at mousephenotype.org



We are repurposing the KOMP²/ IMPC infrastructure to create a publicly available resource for researchers to query and find PDX strains important to their research.