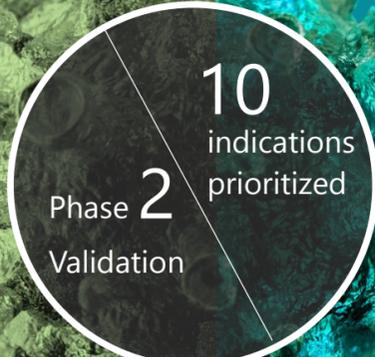


# Portfolio augmentation for a potential biologic drug

Machine learning driven indication prioritization

## Objective

A public biotech company that successfully pioneered a novel drug delivery system to target liquid tumors, was interested in expanding the potential of their technology to solid tumor indications.



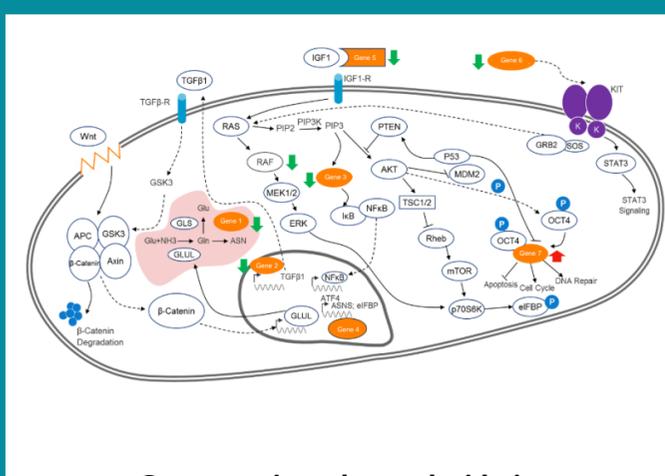
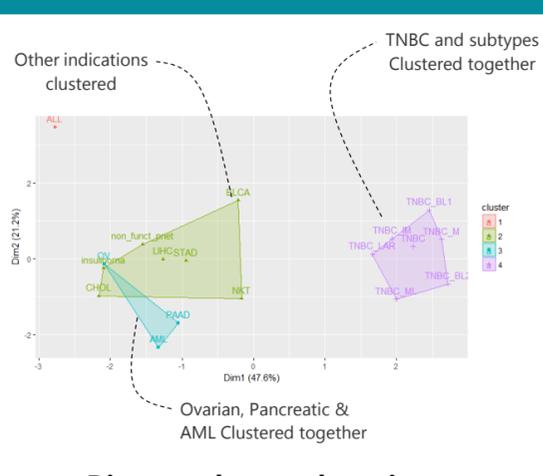
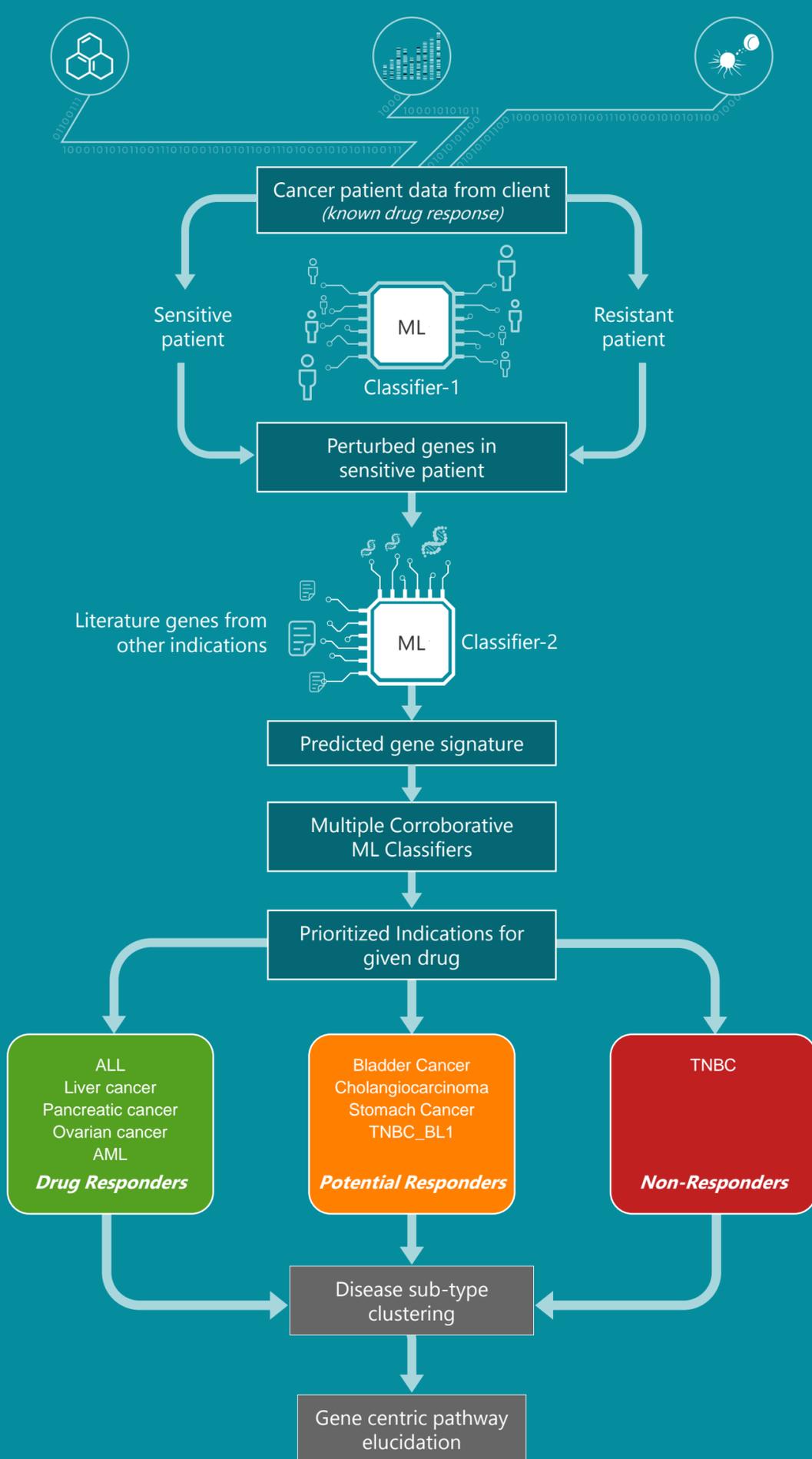
## Methodology



Public domain patient drug response data

Disease-gene expression datasets

Disease sub-type specific datasets



## Outcome

- Excelra facilitated portfolio optimization and expansion for the partner, by prioritizing 10 oncology indications, a mix of solid & liquid tumors types.
- ALL (Acute Lymphoblastic Leukemia) determined as a top-priority indication by Excelra, was further confirmed by the client, that successfully validated our approaches.
- Prediction of drug-response at a cancer sub-type level.
- Determined causal gene signatures and provided a comprehensive biological rationale and pathway analysis.

## Value

- Portfolio enhanced for next 2 years
- Increased application of partner's technology platform & external validation
- Created value for shareholders and the Board to fund future programs
- Potential revenue generation >\$2bil\*



Leverage Excelra's experience in building computational pipelines and developing proprietary predictive algorithms. We facilitate a unique collaboration between bioinformaticians and biologists who help in assigning a biological rationale and testable hypothesis.

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