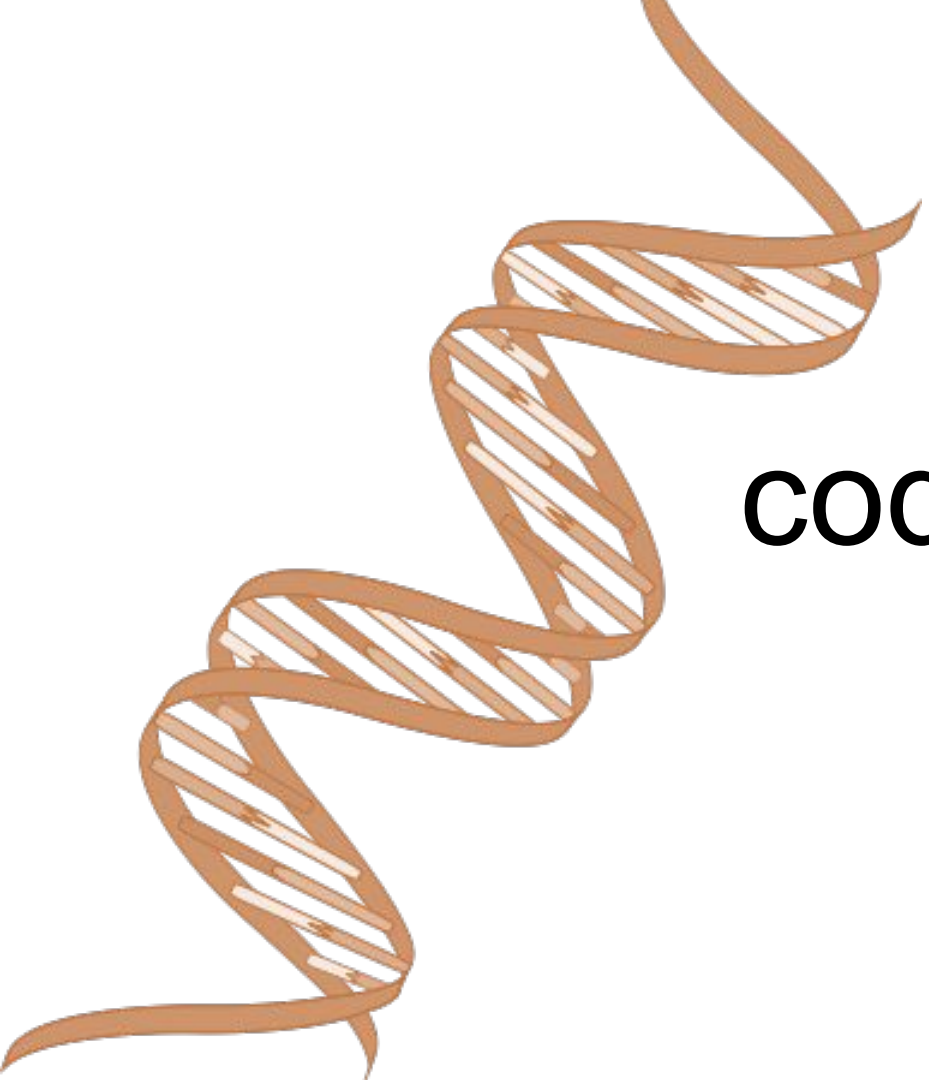


codeOmics

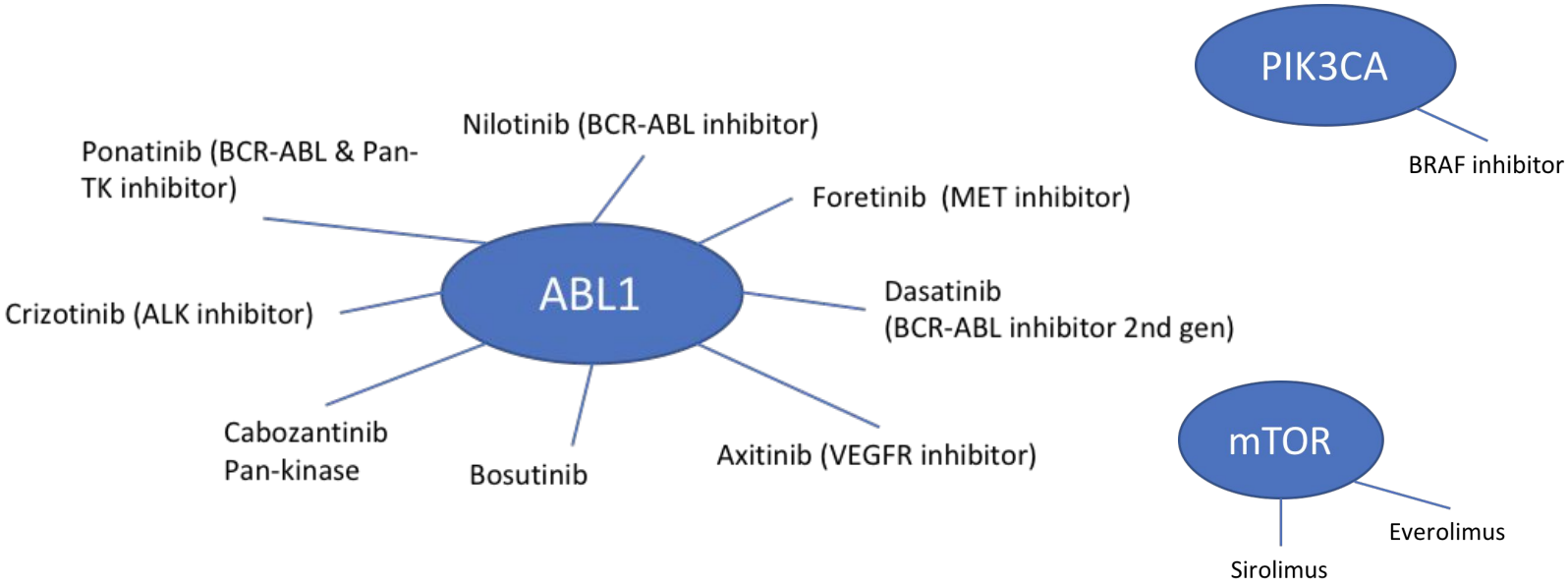
What do we want to achieve?

precision phenotyping . tcga . gene ontology . drug biomarker

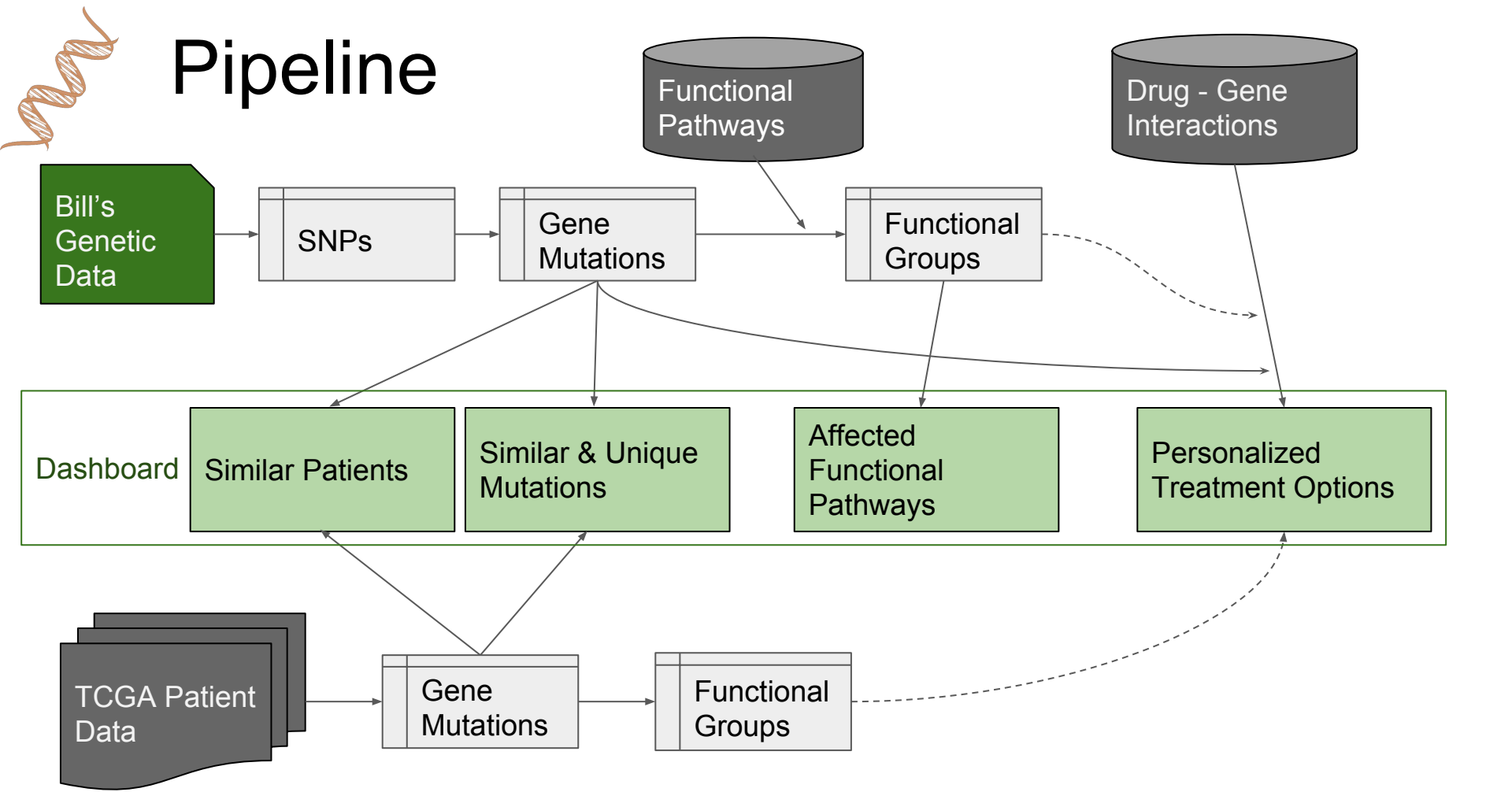
treat

understand

Biomarkers to Precision Drugs

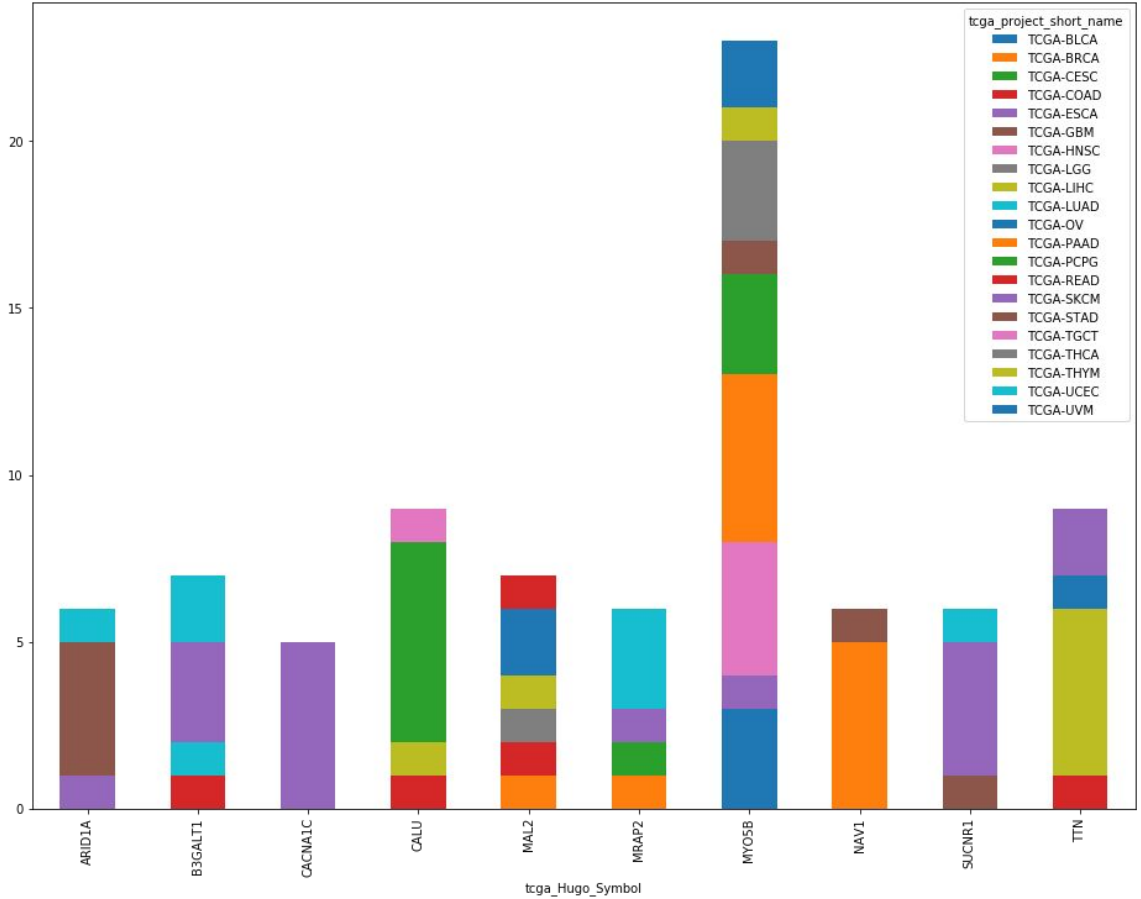


Pipeline


Functional Pathways
Drug - Gene Interactions
Bill's Genetic Data
SNPs
Gene Mutations
Functional Groups
Dashboard
Similar Patients
Similar & Unique Mutations
Affected Functional Pathways
Personalized Treatment Options
TCGA Patient Data
Gene Mutations
Functional Groups

From Bill's cancer mutations to TCGA

SNPs that are present in Bill's cancer and are also present in specific cancer subtypes

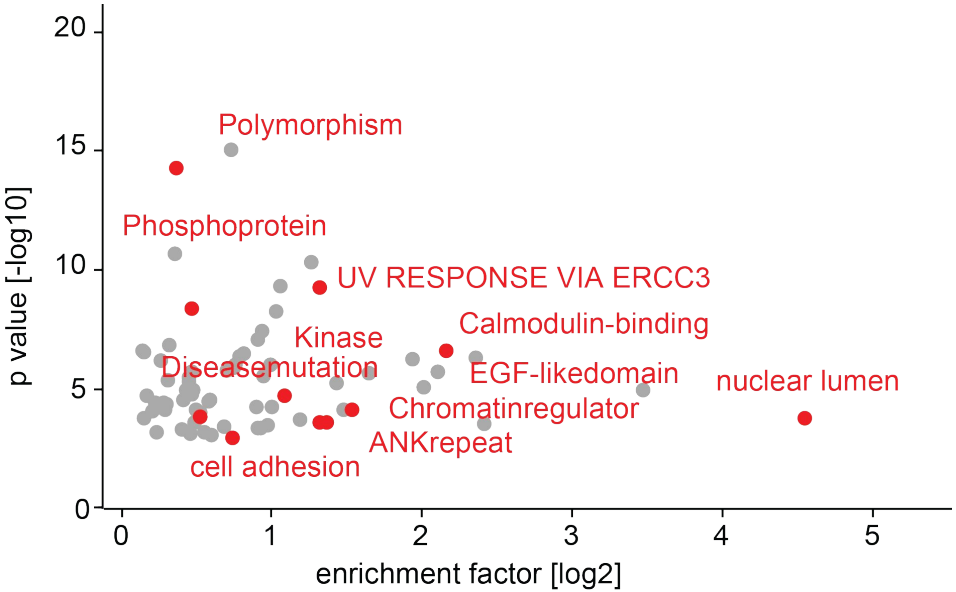


What Pathways are significantly under / over represented in Bill's tumor?

missense mutations → genes

genes → pathways

Bill's → tcga

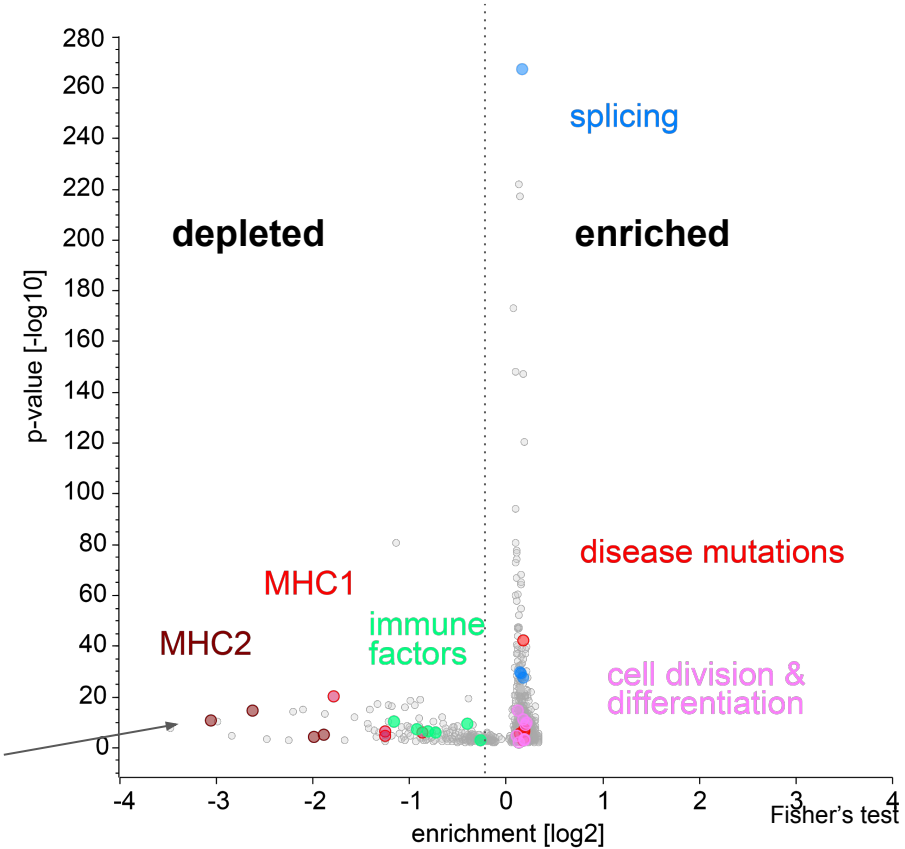


Fisher's test

What Pathways are significantly under / over represented in Bill's tumor?

missense mutations → genes

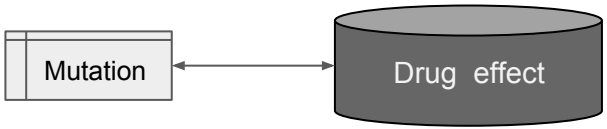
genes → pathways

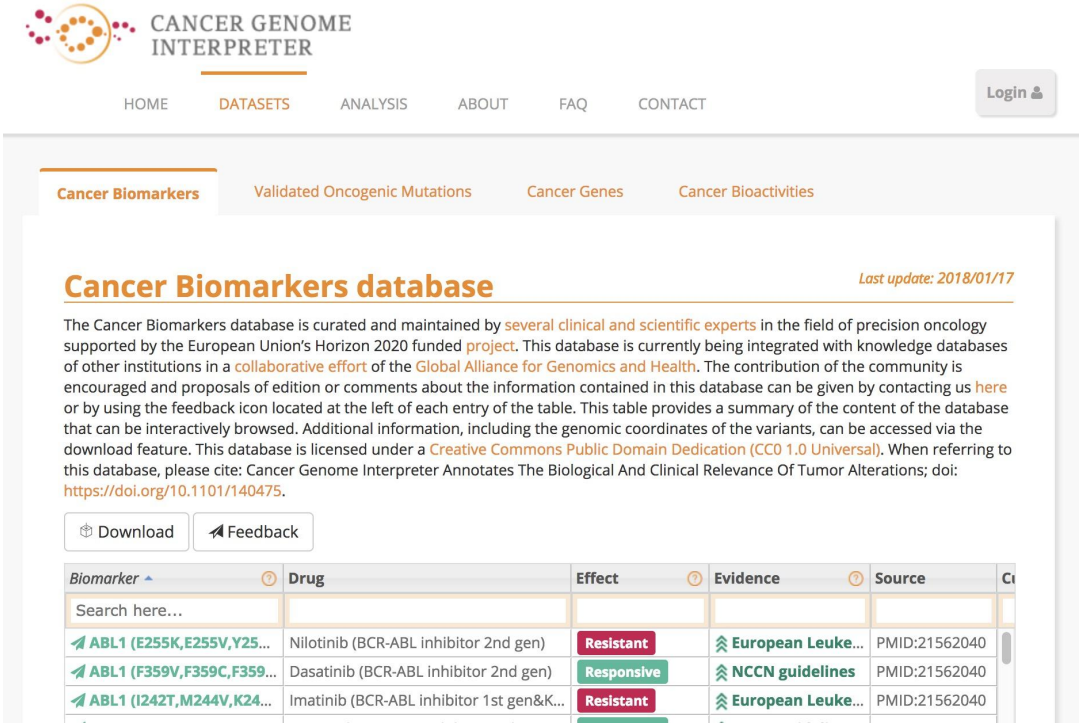
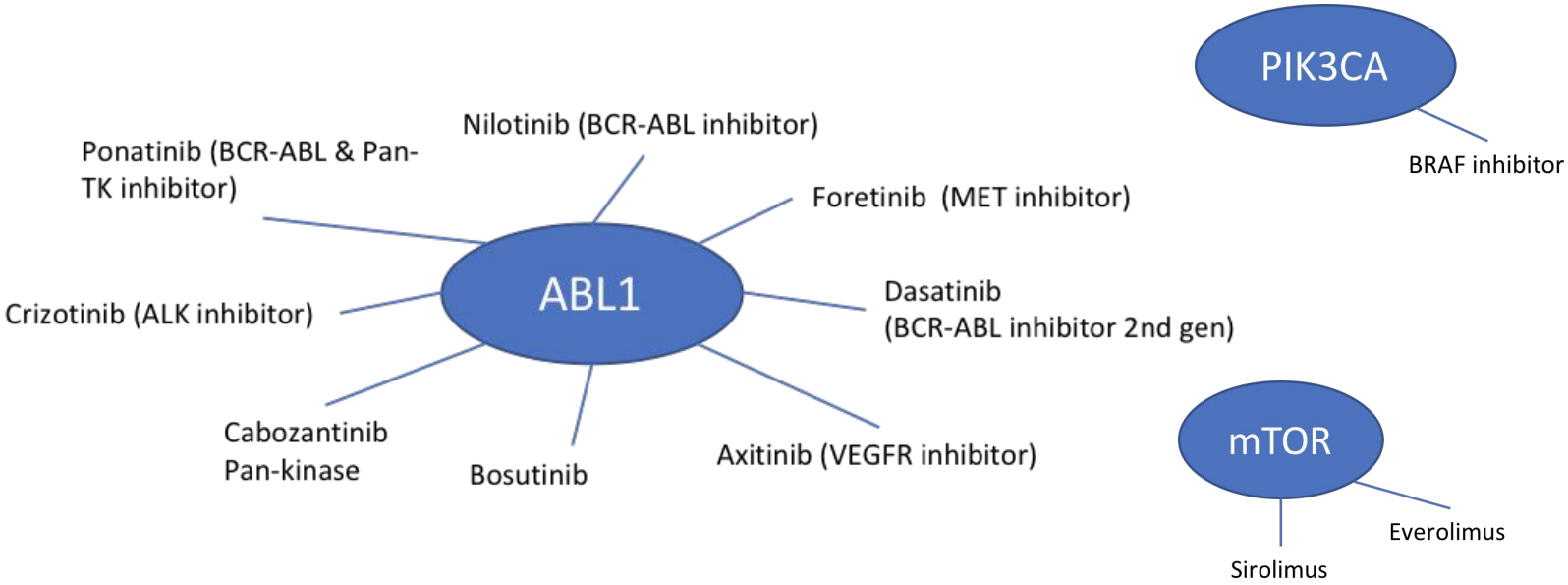


TAP binding (GO: antigen processing and presentation)

Biomarkers to Precision Drugs

specific mutations → response to drug therapy / drug resistance to drug therapy





Biomarkers to Precision Drugs