

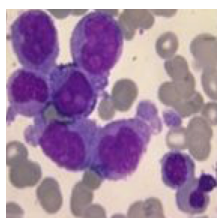
# AZ challenge

Goal: predict drug synergy (drug combination)

## Data overview



118 small molecules



85 cancer cell lines

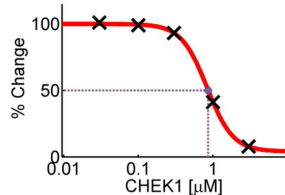
### Drug chemistry

- Fingerprints
- Putative target
- Properties, e.g. lipophilicity

### Molecular features

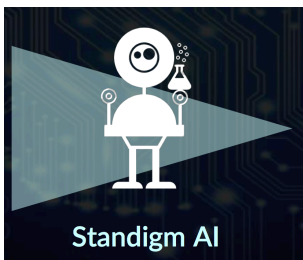
- Mutation
- CNV
- Methylation
- Gene exp.

### Mono-therapy



~900 drug combinations  
measured in a subset of cell lines  
(total ~10,000 synergy score measured)

60% open (training data)  
40% hidden (test data)



## Challenge result

Ranked 3<sup>rd</sup> among 71 teams

