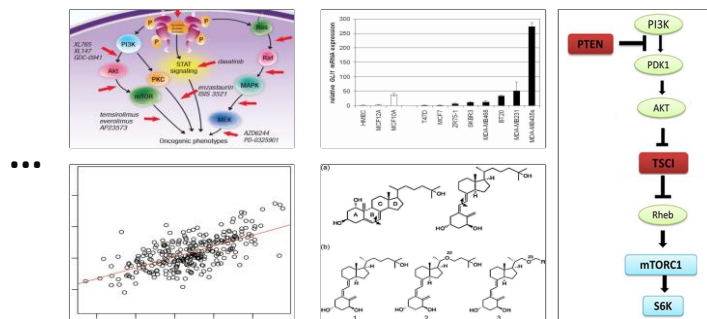
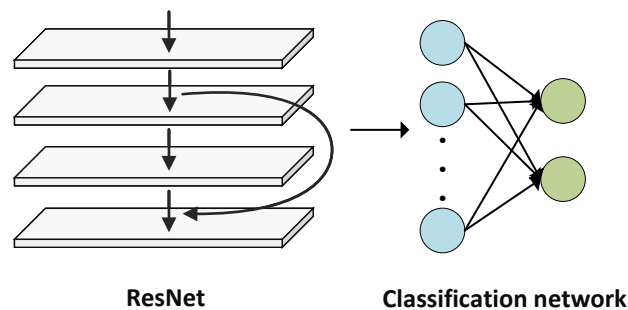


## Images from literature



## Pathway identifier



ResNet

Classification network

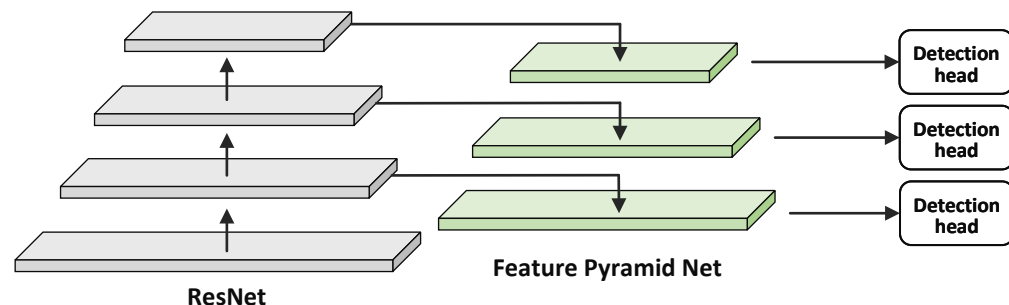
## Pathways

## Non-pathways

Pathway identifier results

(a)

## Object detection



ResNet

Feature Pyramid Net

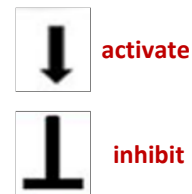


## Gene

PTEN

AKT

## Relation indicators



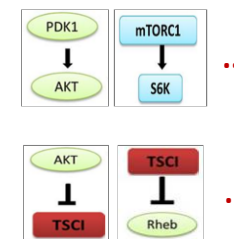
Object detection results

(b)

## Gene slices



## Relation slices



Data formatting for pathCLIP