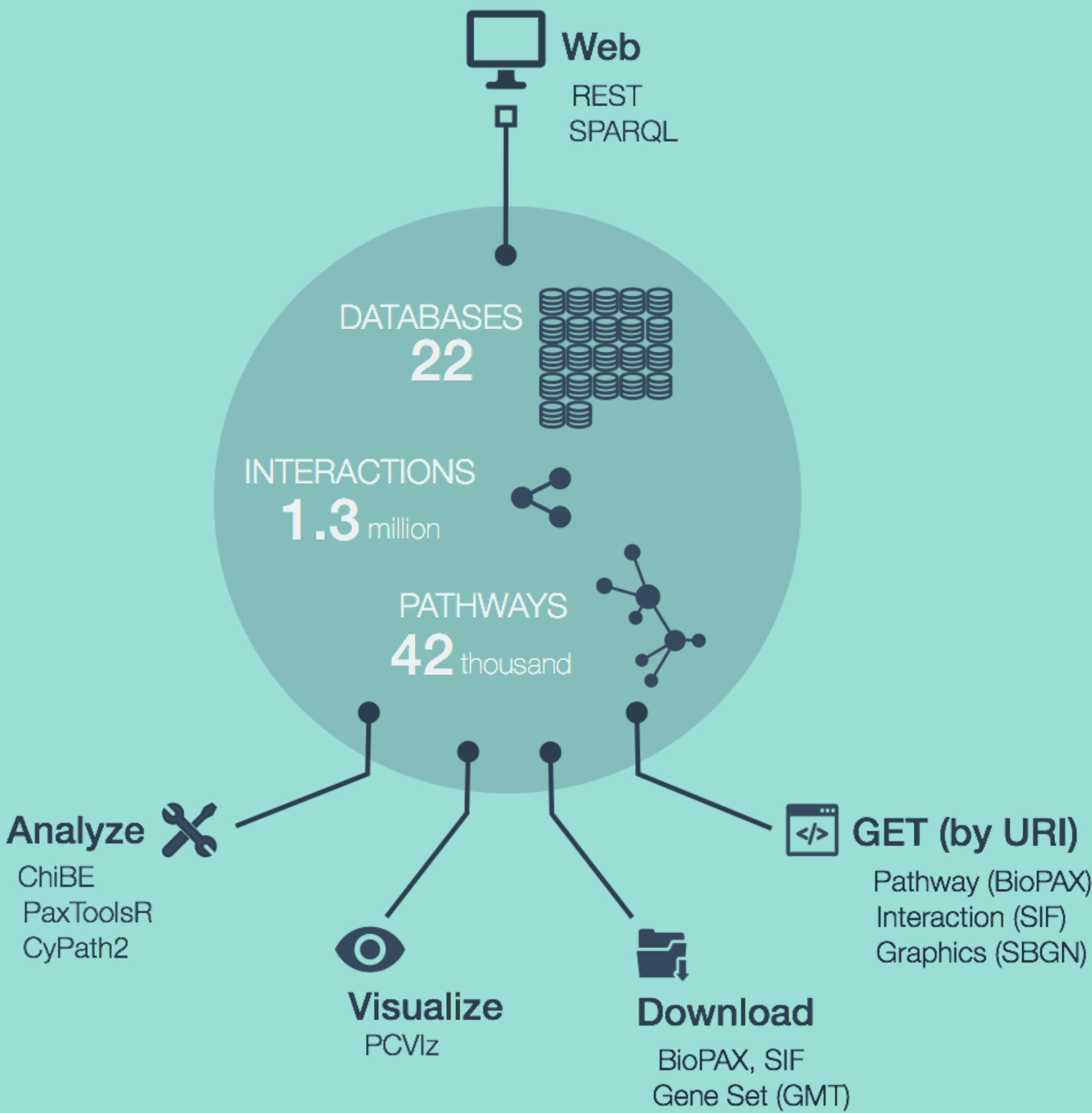


# Pathway Commons: Pathway Information. Single Point of Access.

\*Version **8** - May 2016



\*Regular releases throughout the year

## What you can get

### Download Pathway Data

Biological Pathway Exchange format (BioPAX L3)  
Simple Interaction Format (SIF; Inferred from BioPAX)  
Gene sets in *Gene Matrix Transposed* format (.gmt; Pathway analyses)

### Pathway Data via Web Service

Search - Full text search in the integrated BioPAX model  
Get - Sub-networks by BioPAX object URI  
Advanced queries (*Graph*, *Traverse*)

### Tools & Learning

PaxToolsR – R package to access PC and manipulate pathway data  
ChiBE – Desktop program to access PC and visualize pathway data  
CyPath2 – Cytoscape plugin enabling PC web service access

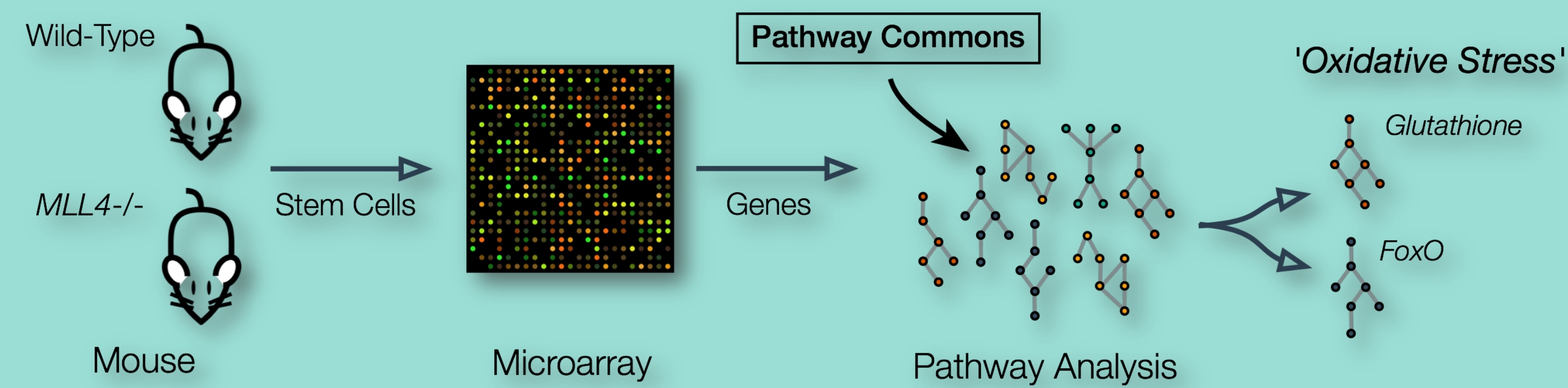
Visit us at [www.pathwaycommons.org](http://www.pathwaycommons.org) for more information and tools

## Where it has been used

Pathway Commons [*Cerami EG, NAR v39 (2011)*] has been referenced in hundreds of instances by experimentalists and computational biologists alike. Two recent highlights:

### Geneticists use Pathway Commons data to link gene implicated in leukemia to well-studied oxidative-stress pathways that maintain stem-cell renewal

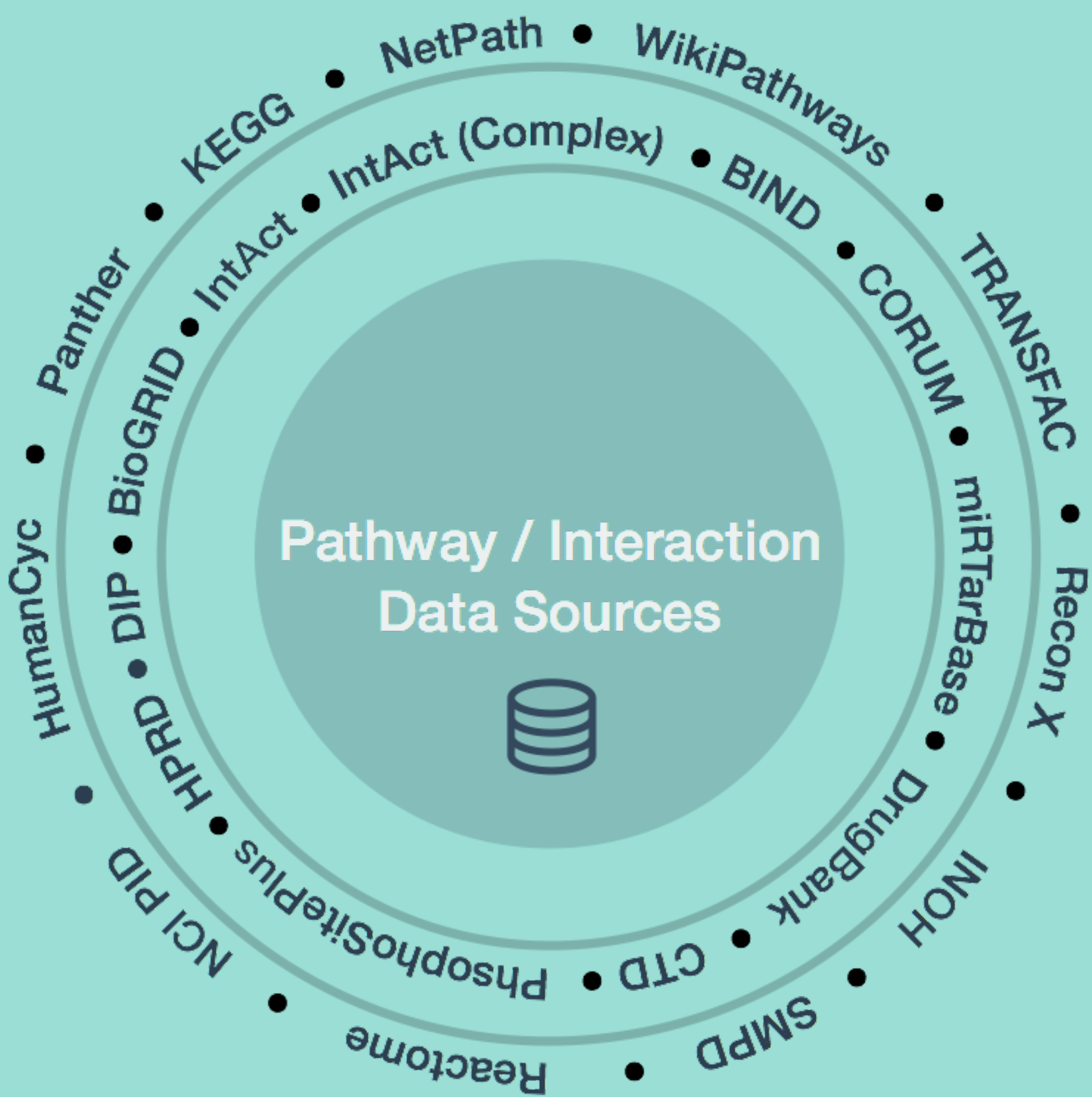
DNA-damage-induced differentiation of leukemia cells as an anti-cancer barrier  
Santos et al. *Nature* Volume 514, Issue 7520, 107-111 (2 October 2014)



### Winners of the DREAM 8 challenge to infer causality in a signaling network rely on pathways extracted from Pathway Commons

Inferring causal molecular networks: empirical assessment through a community based effort Hill et al. *Nature Methods* Volume 13, Issue 4, 310-318 (April 2016)

## What's Inside

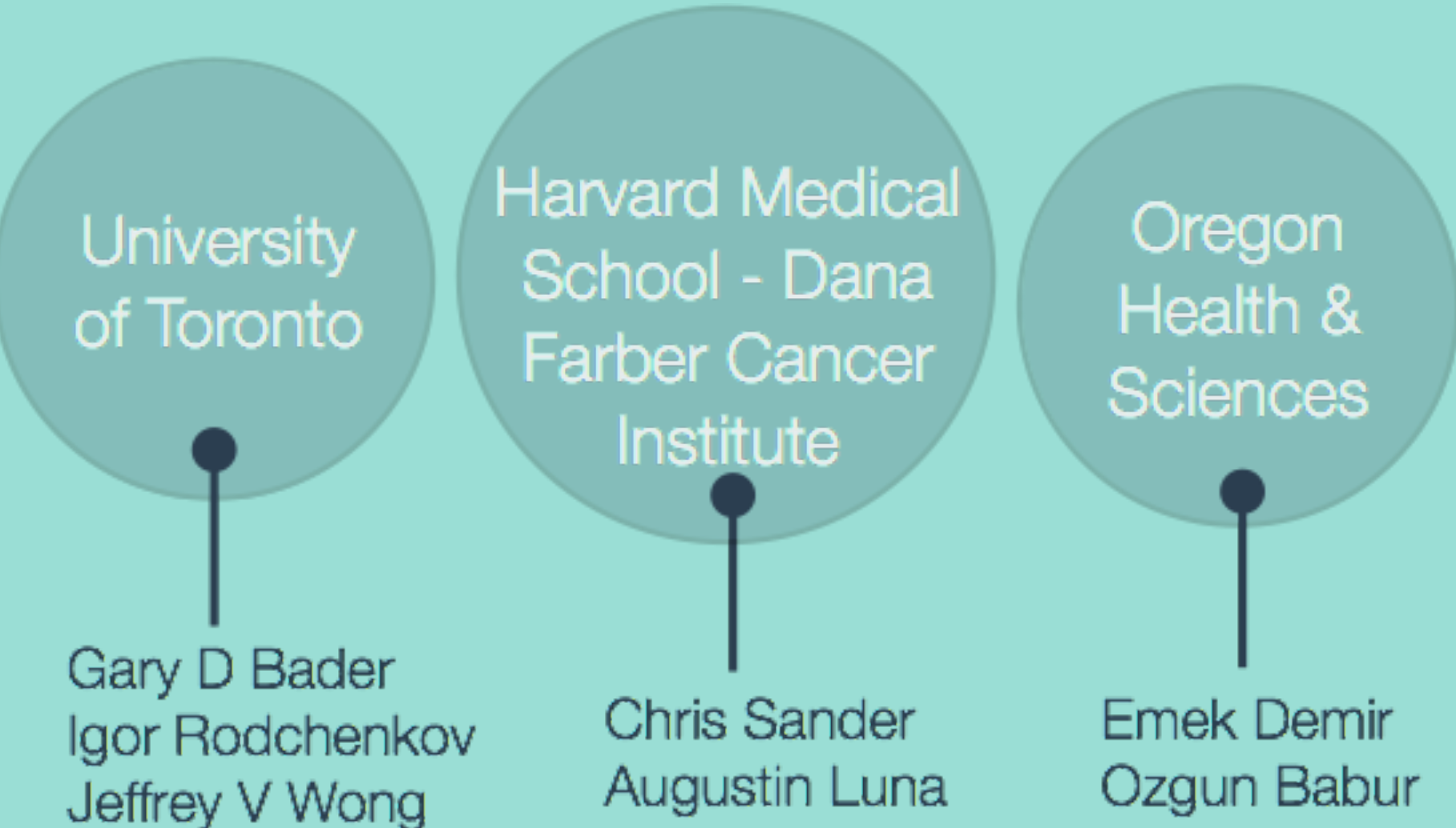


### Support in BioPAX L3

Metabolic Pathways  
Signaling Pathways  
Gene Regulatory Networks  
Genetic Interactions

Pathway Commons acknowledges the database partners from which we source pathway data  
[www.pathwaycommons.org/pc2/datasources](http://www.pathwaycommons.org/pc2/datasources)

## Who we are



[www.pathwaycommons.org](http://www.pathwaycommons.org)  
[@pathwaycommons](https://twitter.com/pathwaycommons)  
[github.com/PathwayCommons/](https://github.com/PathwayCommons/)