

# The Open Targets Platform turns one year old: what news have we got for you?

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[www.targetvalidation.org](http://www.targetvalidation.org)



## What is the Platform?

A resource for discovery and prioritisation of drug targets.

## Which data is integrated, processed and scored in the Platform?

Comprehensive, trustworthy and up-to-date data for target-disease associations.

### A) Public data sources



### B) Open Targets data sources → New data from our Experimental projects

Oncology, Immunology, Neurodegeneration

## How to access this data?

[Website](#)

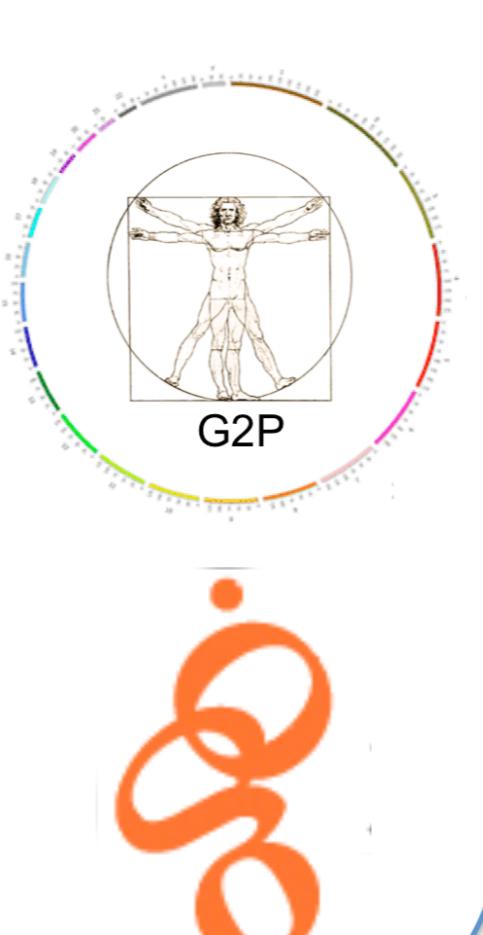
[REST API](#)

[Python, R and Javascript clients](#)

[Data dumps](#)

## New data: Germline and somatic mutations

- Variants, genes, phenotypes → developmental disorders
- Literature curation → clinical geneticists in the UK
- catalog of genes and somatic (driver) mutations
- involvement in cancer biology



## New functionality: search for a drug

escitalopram

**SLC6A4**  
solute carrier family 6 member 4  
214 diseases associated

Target Match from drug

Serotonin transporter whose primary function in the central nervous system involves the regulation of serotonergic signaling via transport of serotonin molecules from the synaptic cleft back into the pre-synaptic terminal for re-utilization. Plays a key role in mediating regulation of the availabili...

## New tool: Your target list

Open Targets

About Help API Downloads Blog Search for a target or disease (e.g. BRAF or )

2 targets associated with cancer

View disease profile

Filter by Data types Pathway types

Your target list

Clear targets from test2.txt

Target names found in file (2)

Have associations with can... (2)

No associations found for ... (0)

Showing 1 to 2 of 2 targets

Search:

Target symbol Association score Genetic associations Somatic mutations Drugs Affected pathways RNA expression Text mining Animal models Target name

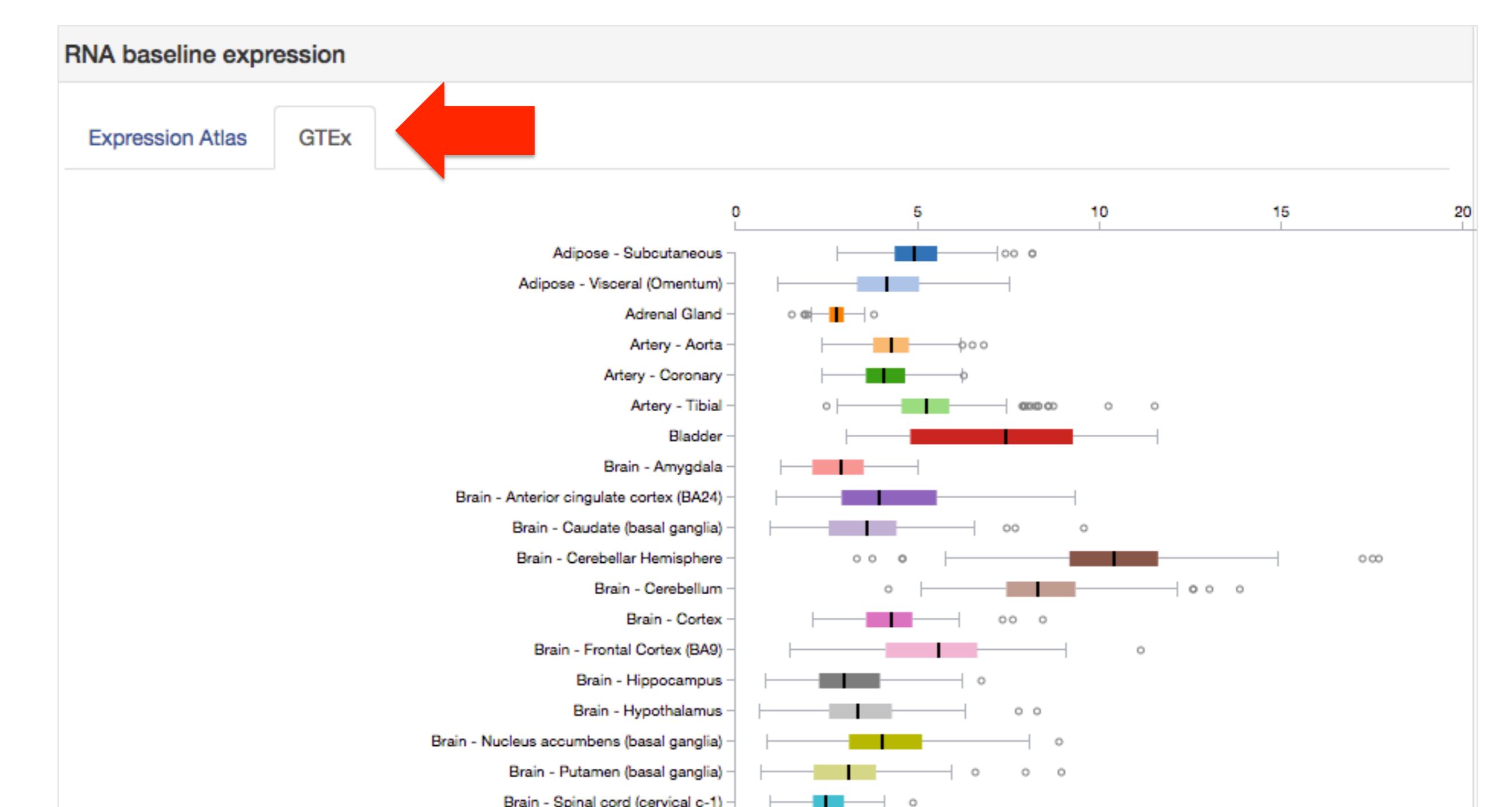
BRCA2 TNF

BRCA2, DNA repa... tumor necrosis fa...

Expression 50 Next

No data 0 Score 1

## New widgets: GTEx gene expression



## New homepage: sleeker look and feel

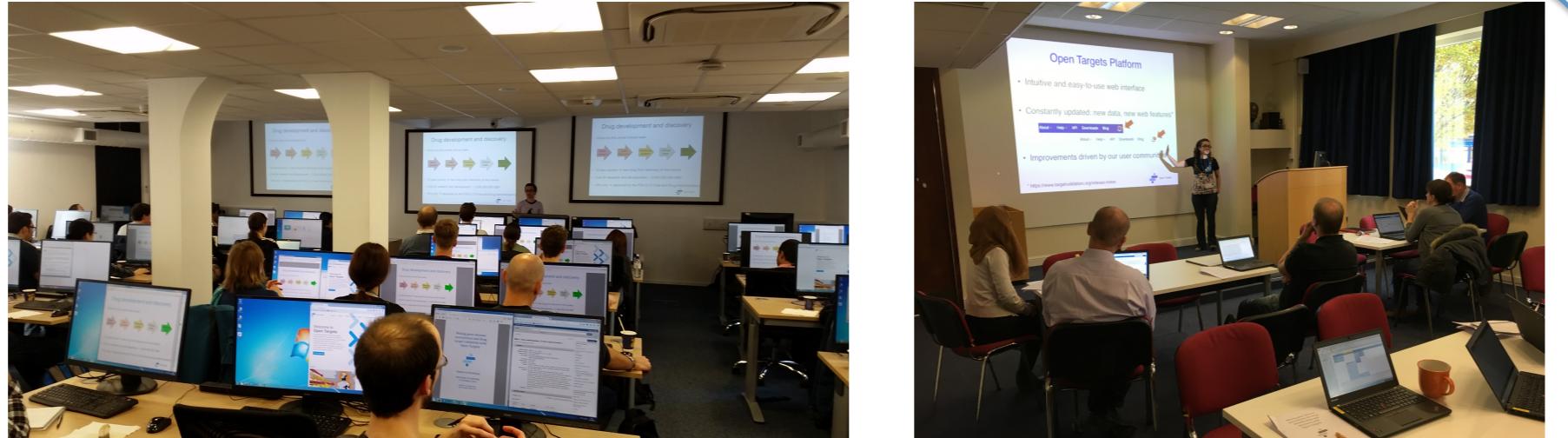
Open Targets Platform

Find new targets for drug discovery

Search for a target or disease

Try: BRAF PTEN Asthma Inflammatory bowel disease

## New training courses



Why not arrange your own? <https://goo.gl/EsSYop>

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30K  
targets

2.4M  
associations

9.4K  
diseases

Data type	Data source	Number of target-disease associations
Genetic associations	EVA	30,437
	GWAS Catalog	74,195
	Gene2Phenotype	12,875
	UniProt	30,867
	UniProt (Literature)	43,214
Somatic mutations	Cancer Gene Census	35,498
	EVA	1,296
	IntOGen	9,351
Drugs	CHEMBL	57,572
Pathways	Reactome	3,471
RNA expression	Expression Atlas	889,969
Text mining	EuropePMC	1,177,280
Animal models	Phenodigm	621,197