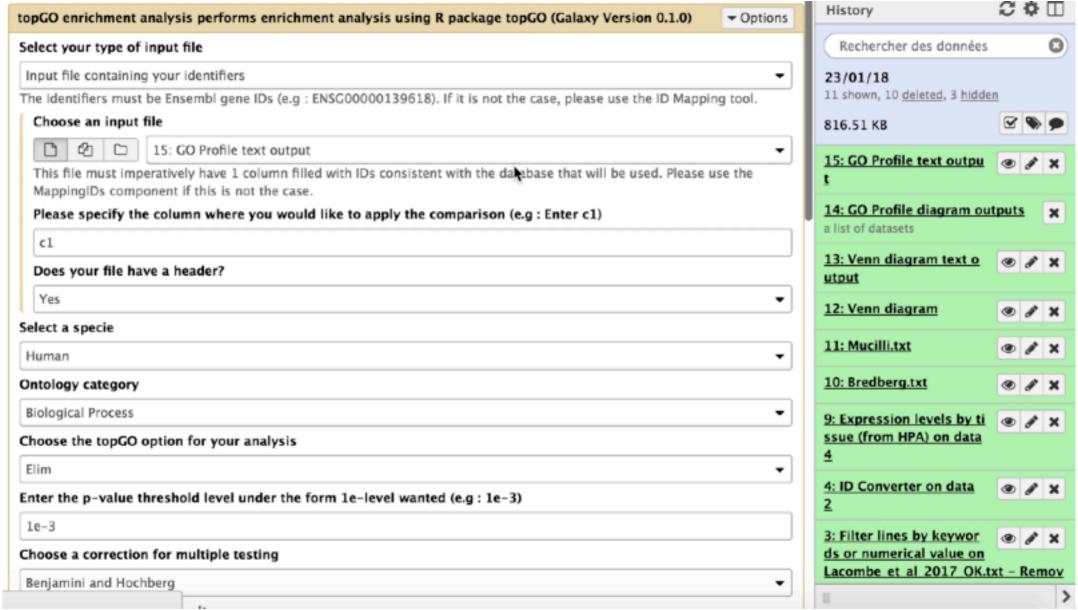


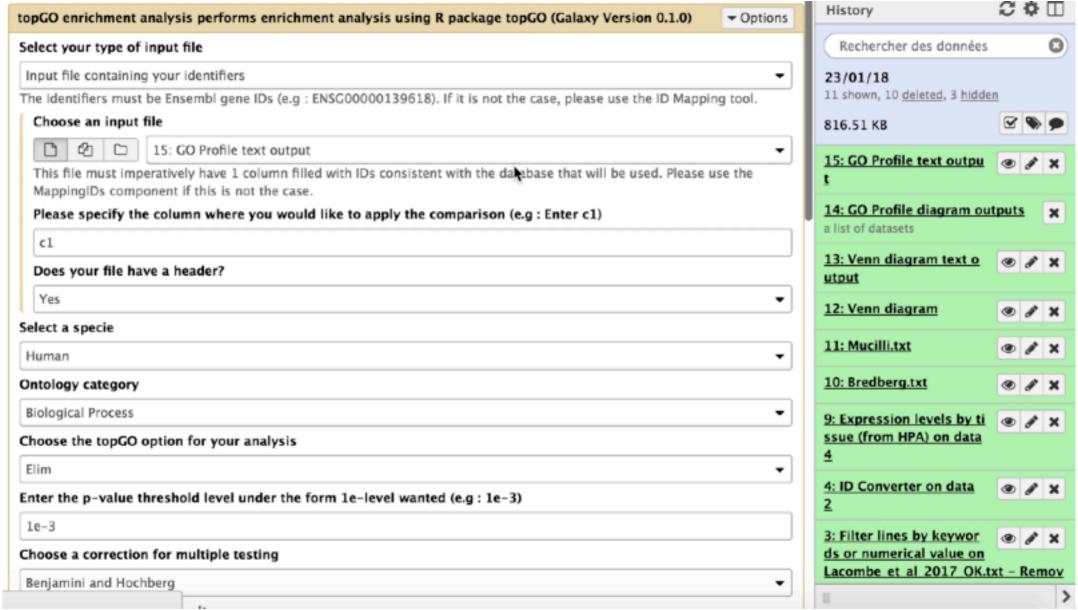


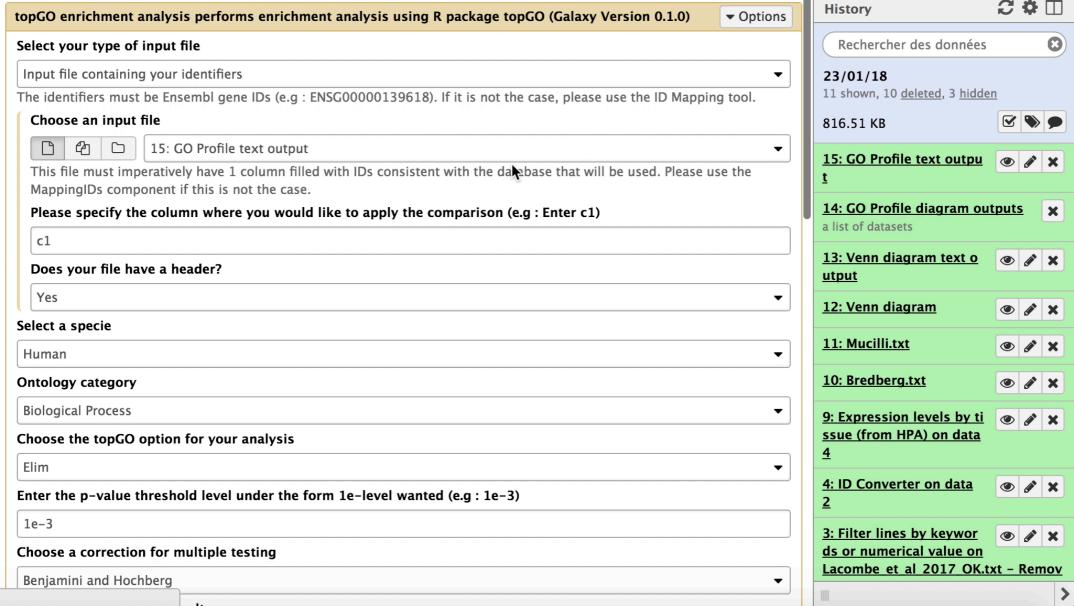
## **LroteoRE**

## topGO enrichment analysis

• Purpose: performing enrichment analysis using R package topGO • Input: a list of Ensembl Gene IDs

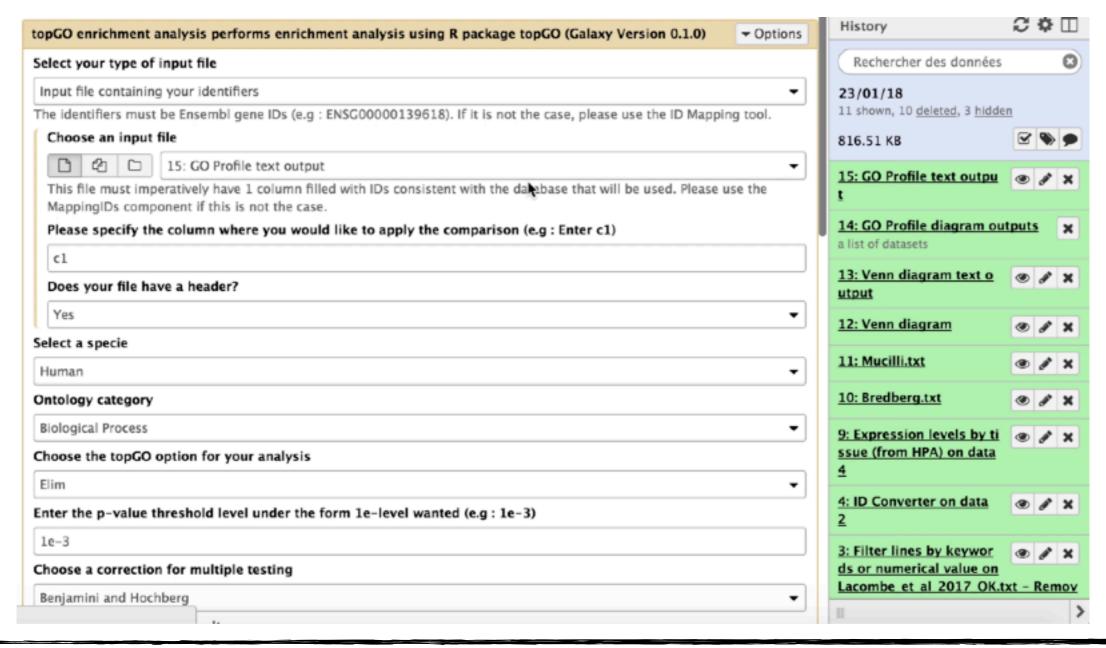






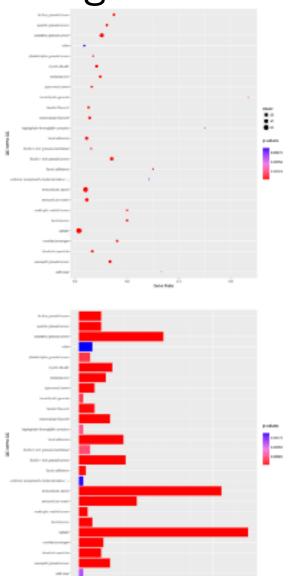
## topGO enrichment analysis

- Purpose: performing enrichment analysis using R package topGO
- Input: a list of Ensembl Gene IDs



## topGO enrichment analysis

• Results: bar plot, dot plot and textual output for each GO categories chosen



1	2	3	4	5	6
GO.ID	Term	Annotated	Significant	Expected	pvalues
GO:0045296	cadherin binding	328	21	2.29	3.9e-12
GO:0004869	cysteine-type endopeptidase inhibitor ac	61	10	0.43	1.3e-11
GO:0004867	serine-type endopeptidase inhibitor acti	103	10	0.72	2.7e-09
GO:0005200	structural constituent of cytoskeleton	120	10	0.84	1.2e-08
GO:0005198	structural molecule activity	778	27	5.44	4.9e-06
GO:0002020	protease binding	140	8	0.98	6.3e-06
GO:0001948	glycoprotein binding	108	7	0.76	1.1e-05
GO:0004197	cysteine-type endopeptidase activity	86	6	0.6	3.1e-05
GO:0004332	fructose-bisphosphate aldolase activity	3	2	0.02	0.00014
GO:0008426	protein kinase C inhibitor activity	3	2	0.02	0.00014
GO:0005509	calcium ion binding	751	15	5.25	0.00024
GO:0098641	cadherin binding involved in cell-cell a	18	3	0.13	0.00025
GO:0019834	phospholipase A2 inhibitor activity	4	2	0.03	0.00029
GO:0004601	peroxidase activity	46	4	0.32	0.00030
GO:0016209	antioxidant activity	94	8	0.66	0.00031
GO:0051082	unfolded protein binding	132	6	0.92	0.00033
GO:0030492	hemoglobin binding	5	2	0.03	0.00048
GO:0003779	actin binding	433	13	3.03	0.00061
GO:0086083	cell adhesive protein binding involved i	6	2	0.04	0.00071
GO:0042802	identical protein binding	1494	26	10.45	0.00076
GO:0003723	RNA binding	1776	28	12.42	0.00091
GO:0048306	calcium-dependent protein binding	62	4	0.43	0.00093

This tool uses R/Bioconductor package topGO - Alexa A and Rahnenfuhrer J (2016). topGO: Enrichment Analysis for Gene Ontology. R package version 2.30.0.