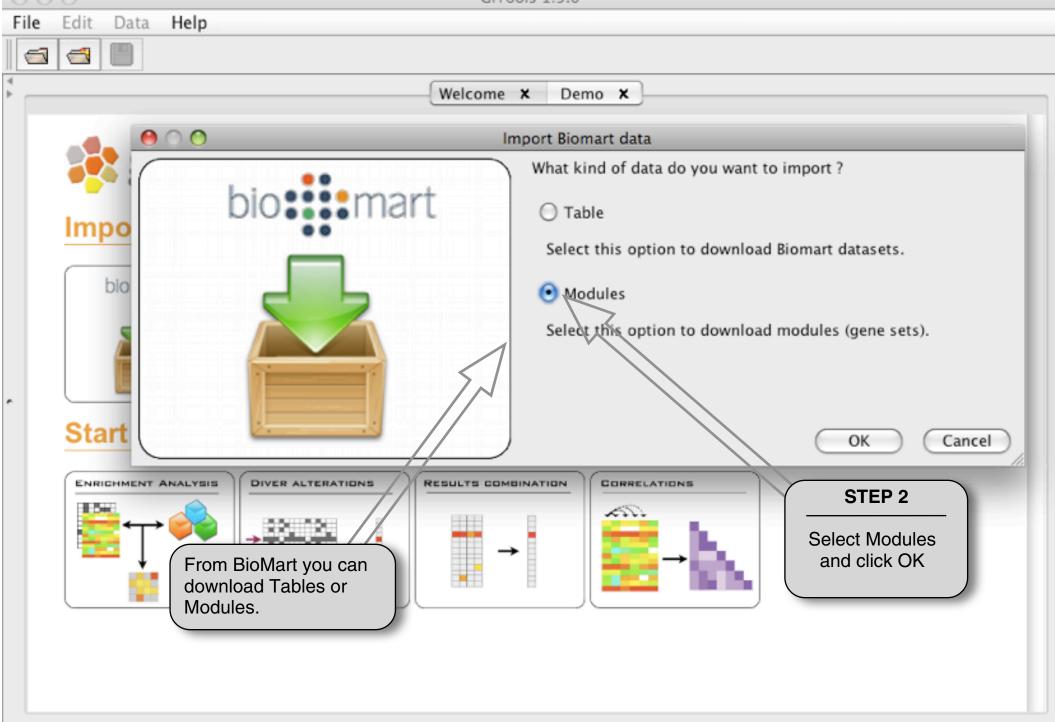
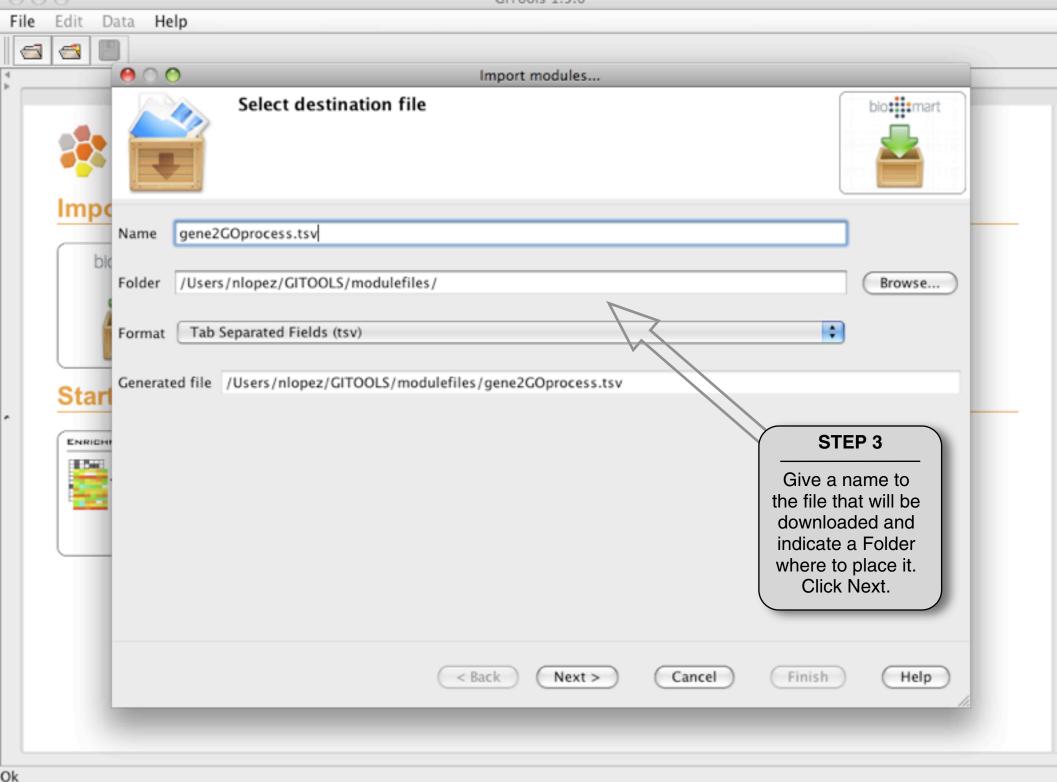


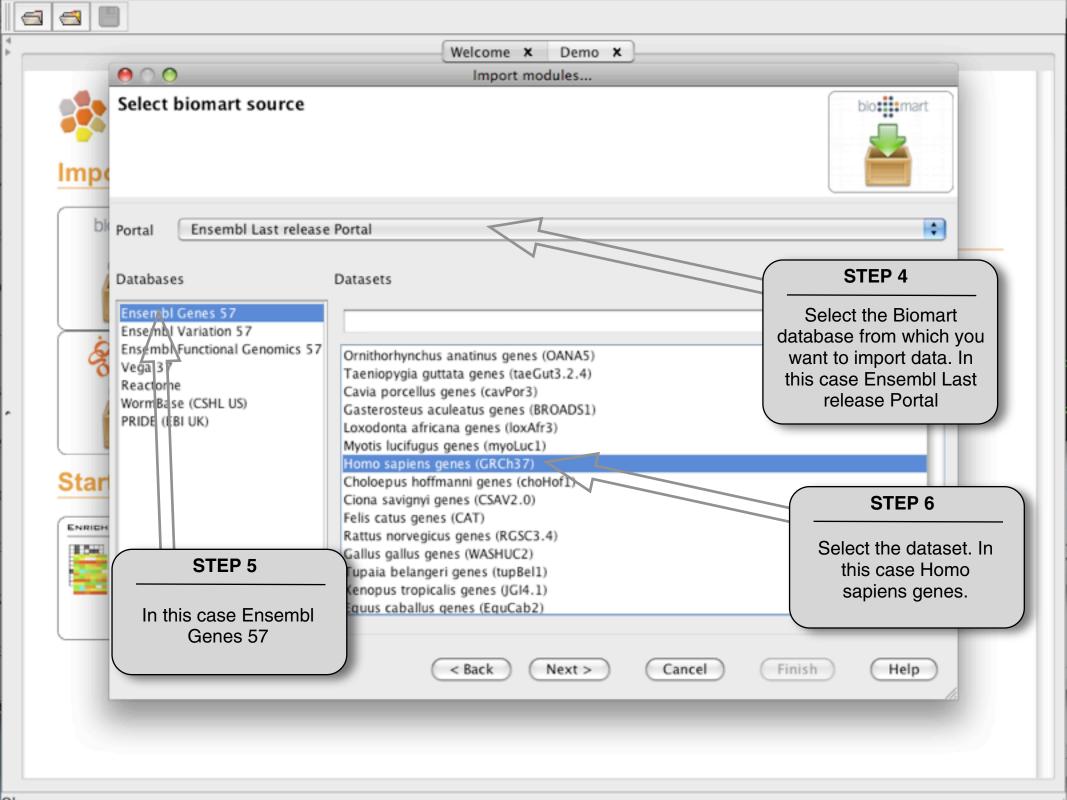


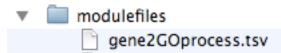
## **Tutorial 1.2: Import Modules From Biomart**

Import a module file that maps all human genes to Gene Ontology Biological processes terms and the annotations of these terms

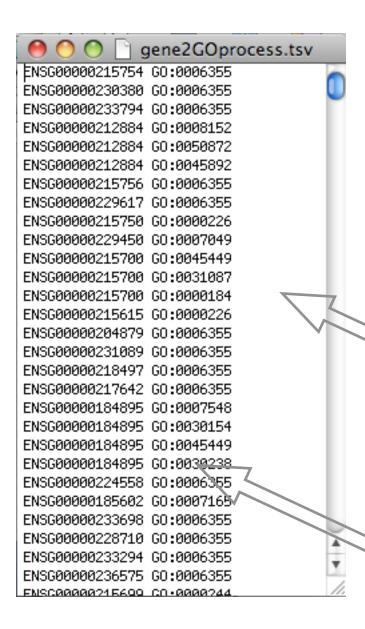








Once the download has been completed you will have a new file in the directory that you indicated.

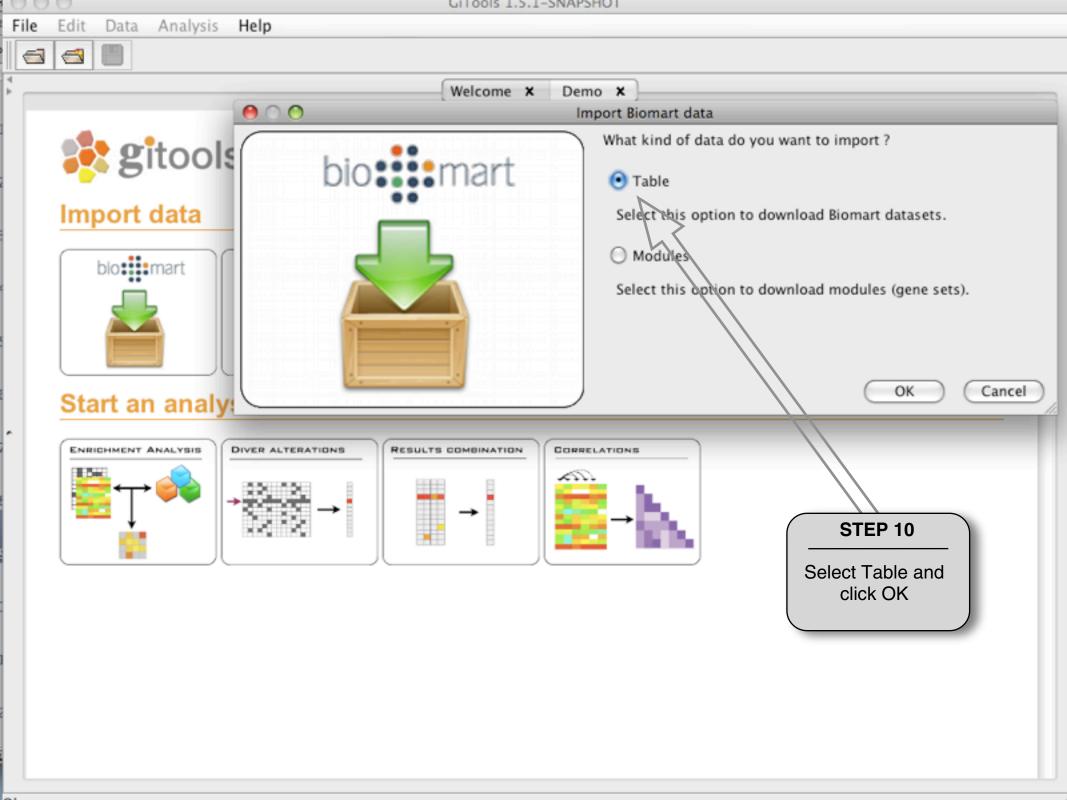


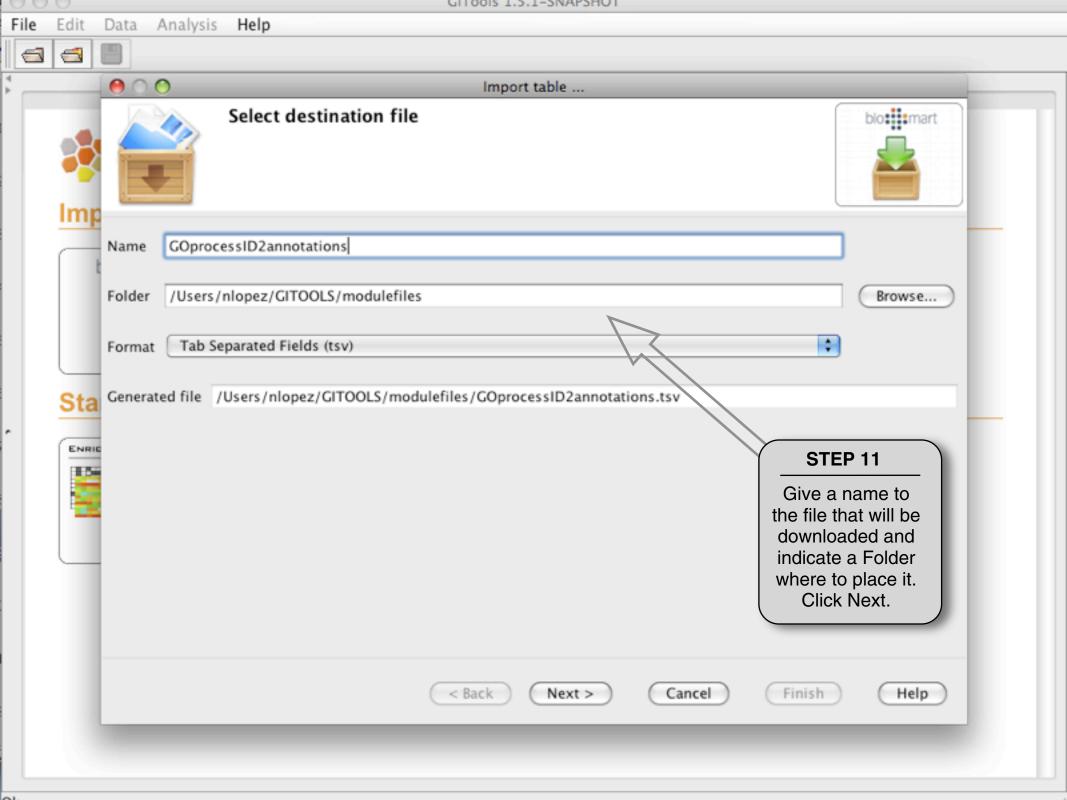
This file is a two columns mapping. The first column indicates the name of the gene or item and the second column the ID of the module.

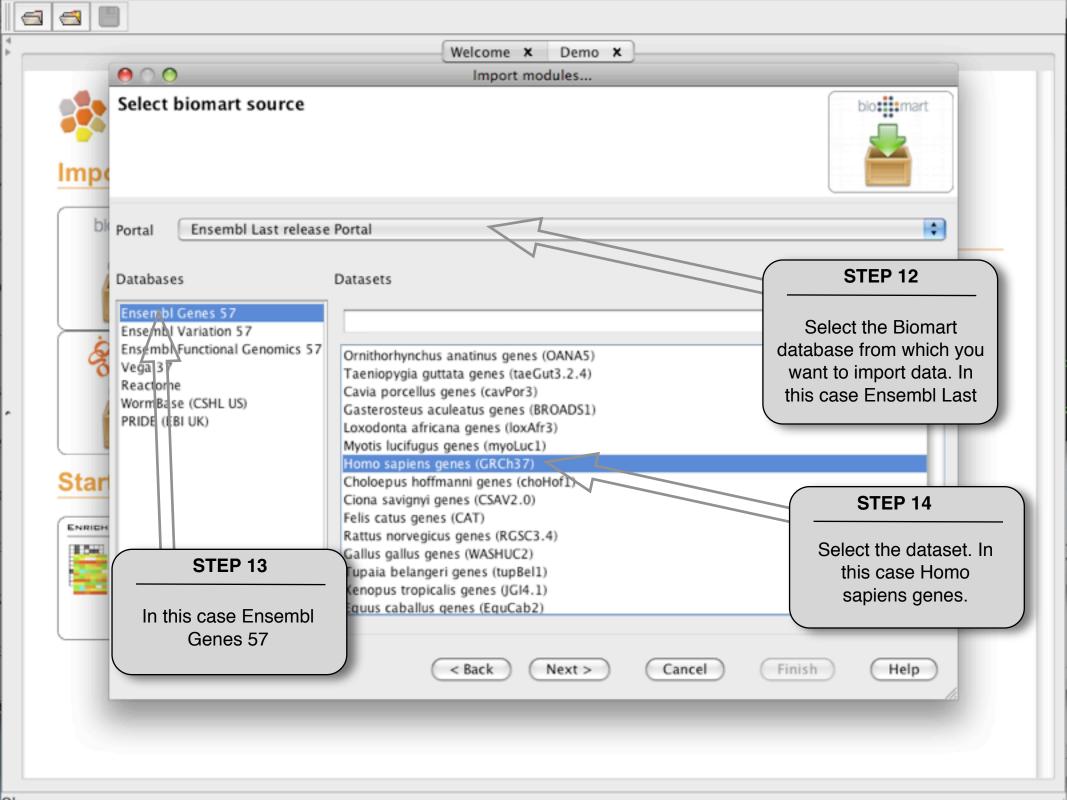
In this case the ID for modules is GO term Accession, but it would be useful to also have the GO description, to recognize easily each of the biological processes.

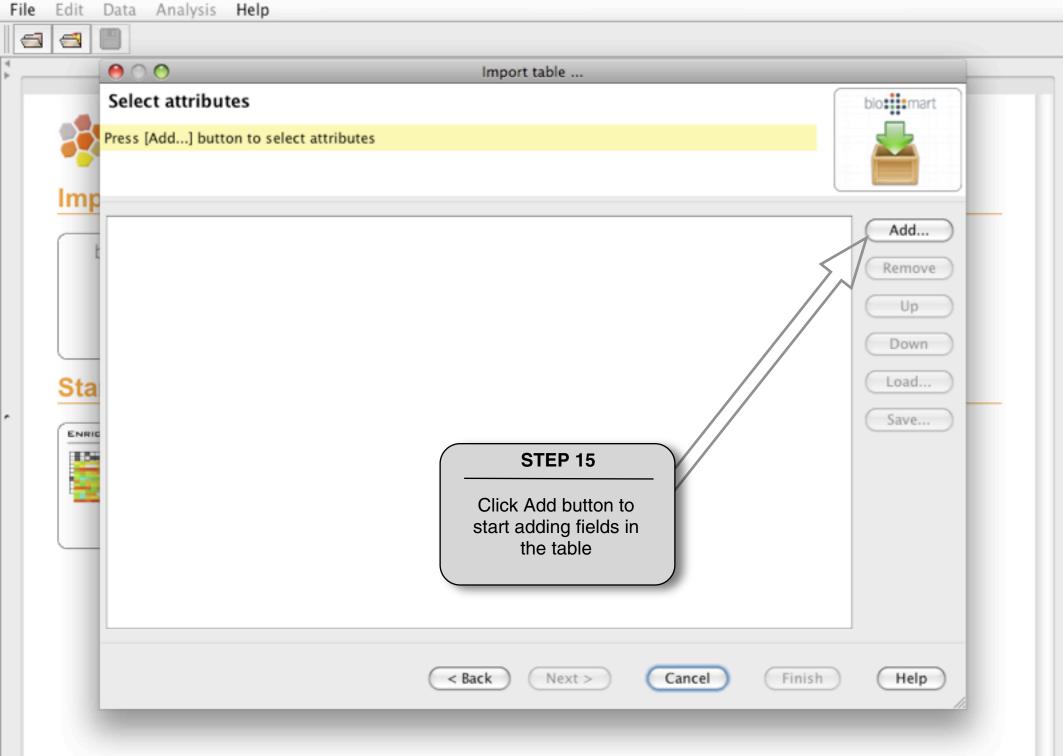
For that we are going to download a table that contains annotations for GO terms.

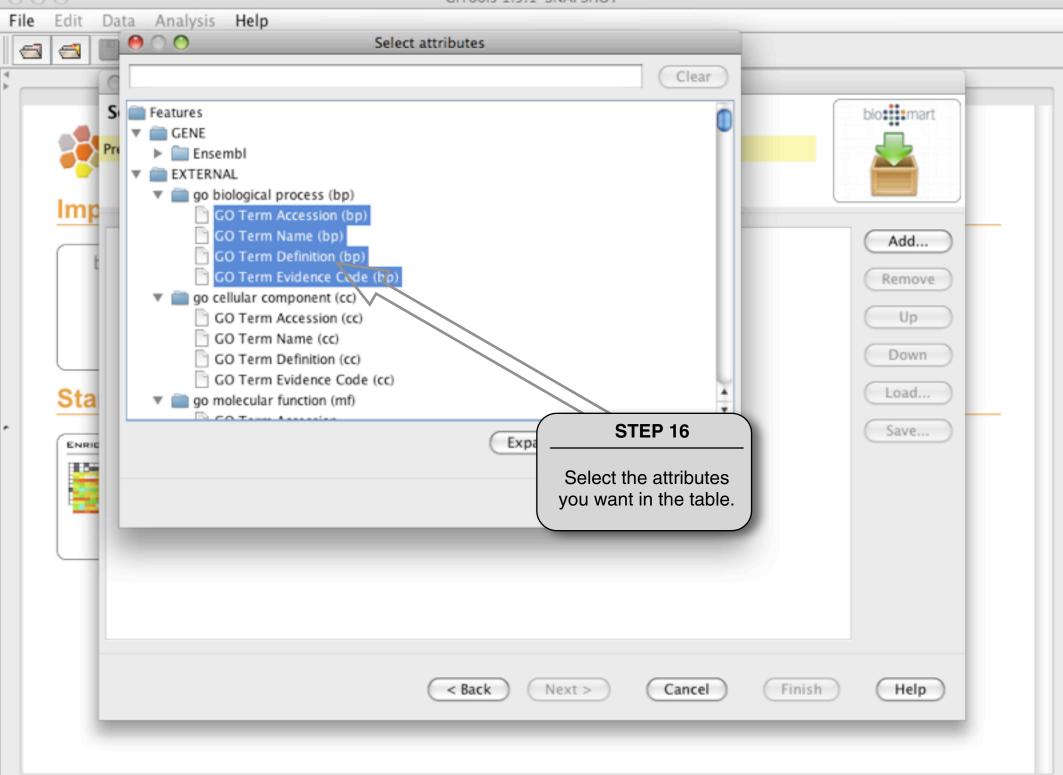
File

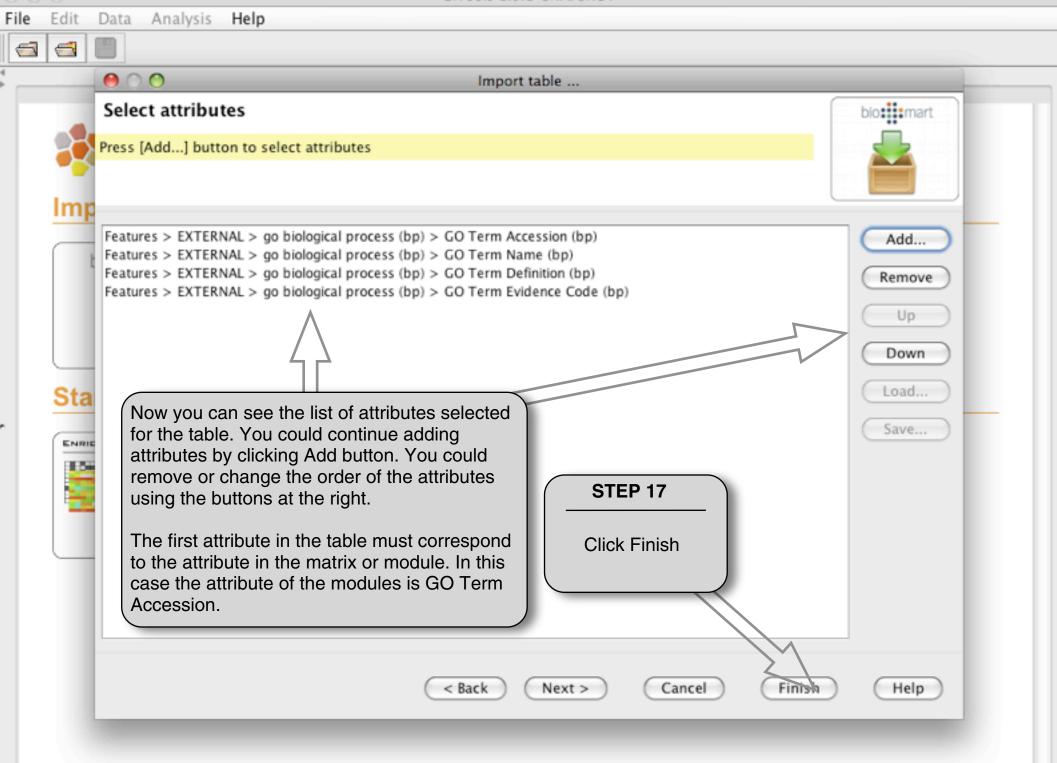












Once the download has been completed you will have a new file in the directory that you indicated.

$\diamond$	A	В	С	D
1	GO Term Accession	GO Term Name (bp)	GO Term Definition (bp)	GO Term Evidence Code (bp)
2	GO:0006355	regulation of transcription, DNA-depen-	Any process that modulates the free	IEA
3	GO:0008152	metabolic process	The chemical reactions and pathway	IEA
4	GO:0050872	white fat cell differentiation	The process whereby a relatively un	IEA
5	GO:0045892	negative regulation of transcription, DN	Any process that stops, prevents or	IEA
6	GO:0000226	microtubule cytoskeleton organization	A process that is carried out at the	IEA
7	GO:0007049	cell cycle	The progression of biochemical and	IEA
8	GO:0045449	regulation of transcription	Any process that modulates the free	IEA
9	GO:0031087	deadenylation-independent decapping	Cleavage of the 5'-cap of a nuclear-	TAS
10	GO:0000184	nuclear-transcribed mRNA catabolic pro	The nonsense-mediated decay path	IDA
11	GO:0006355	regulation of transcription, DNA-depen-		
12	GO:0007548	sex differentiation	The establishment of the sex of an o	IEA
13	GO:0030154	cell differentiation	The process whereby relatively unsp	IEA
14	GO:0030238	male sex determination	The specification of male sex of an i	NAS
15	GO:0007165	signal transduction	The cascade of processes by which	IEA
16	GO:0000244	assembly of spliceosomal tri-snRNP	The formation of a tri-snRNP comple	NAS
17	GO:0006376	mRNA splice site selection	Selection of a splice site by compon	IDA
18	GO:0045449	regulation of transcription	Any process that modulates the free	NAS
19	GO:0016482	cytoplasmic transport	The directed movement of substance	IDA
20	GO:0006406	mRNA export from nucleus	The directed movement of mRNA fro	NAS
21	GO:0048025	negative regulation of nuclear mRNA s	Any process that stops, prevents or	IDA
22	GO:0000375	RNA splicing, via transesterification rea	Splicing of RNA via a series of two t	IDA
23	GO:0007242	intracellular signaling cascade	A series of reactions within the cell t	IEA
24	GO:0007264	small GTPase mediated signal transduc	Any series of molecular signals in w	IEA
25	GO:0015031	protein transport	The directed movement of proteins	IEA
26	GO:0016192	vesicle-mediated transport	The directed movement of substance	IEA
27	GO:0006886	intracellular protein transport	The directed movement of proteins	
28	GO:0007156	homophilic cell adhesion	The attachment of an adhesion mole	IEA
29	GO:0007155	cell adhesion	The attachment of a cell, either to a	
30	GO:0007165	signal transduction	The cascade of processes by which	IAS

This file is a table that contains the fields that we have selected



## THANKS FOR USING GITOOLS

http://www.gitools.org