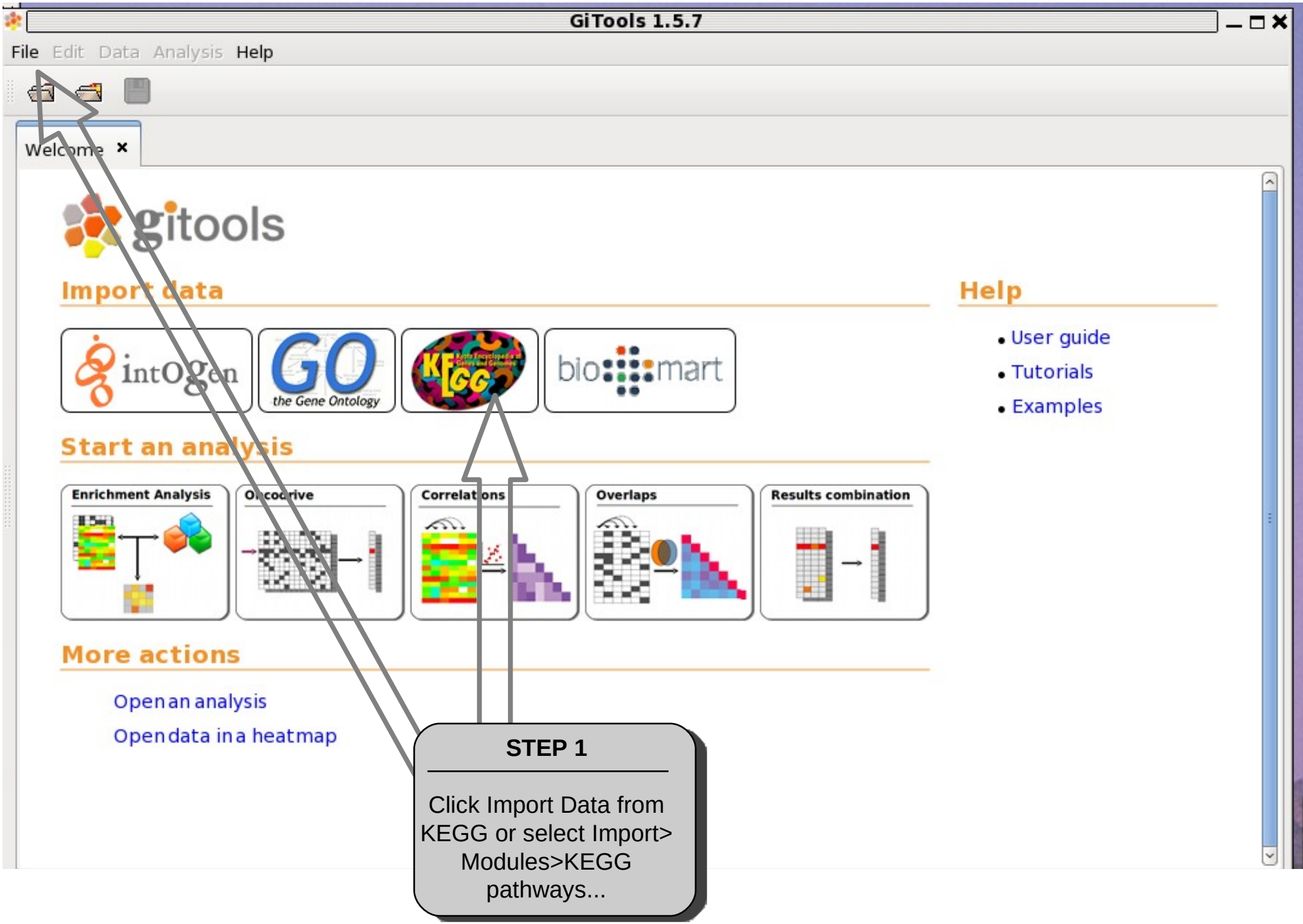
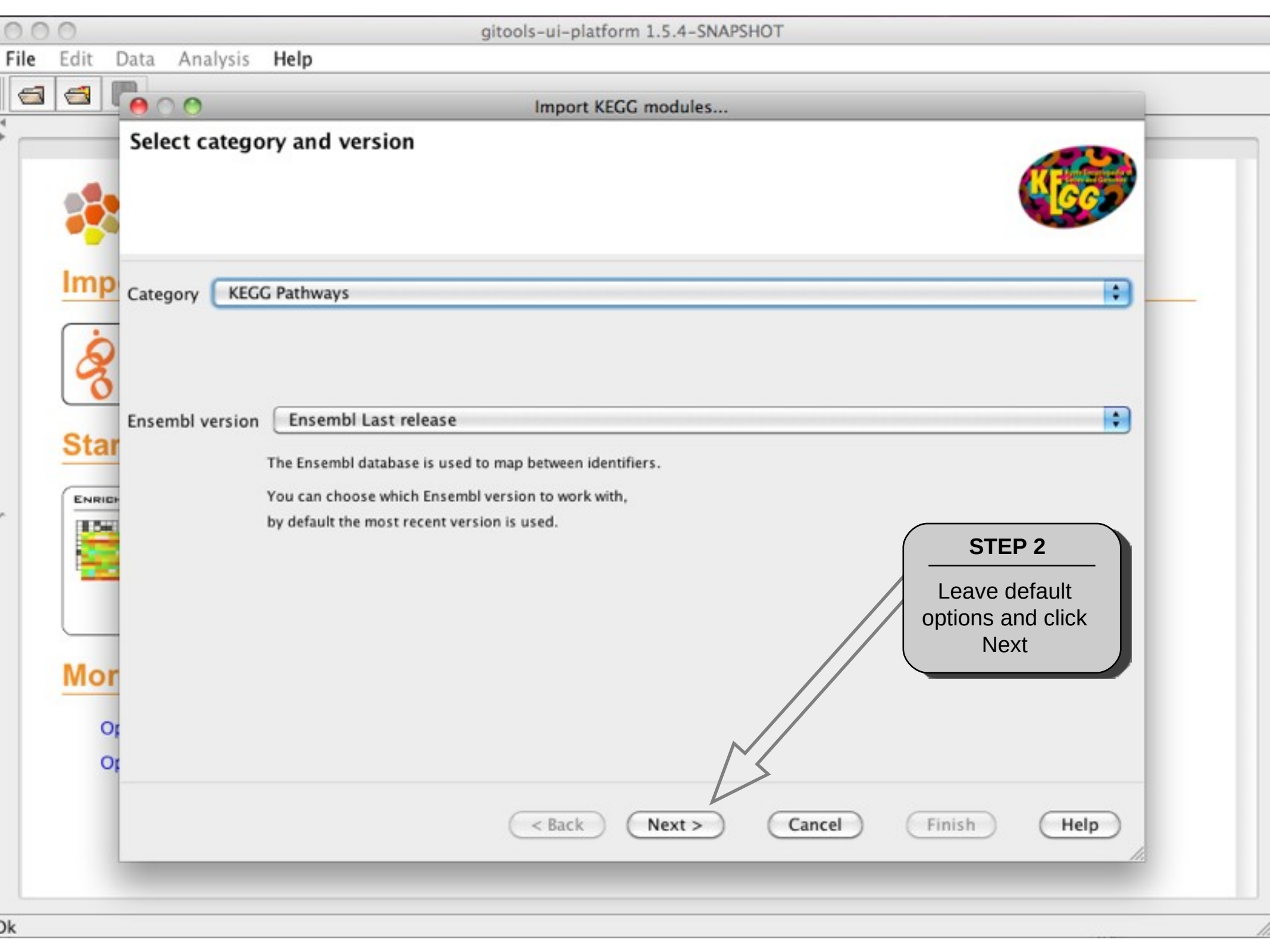
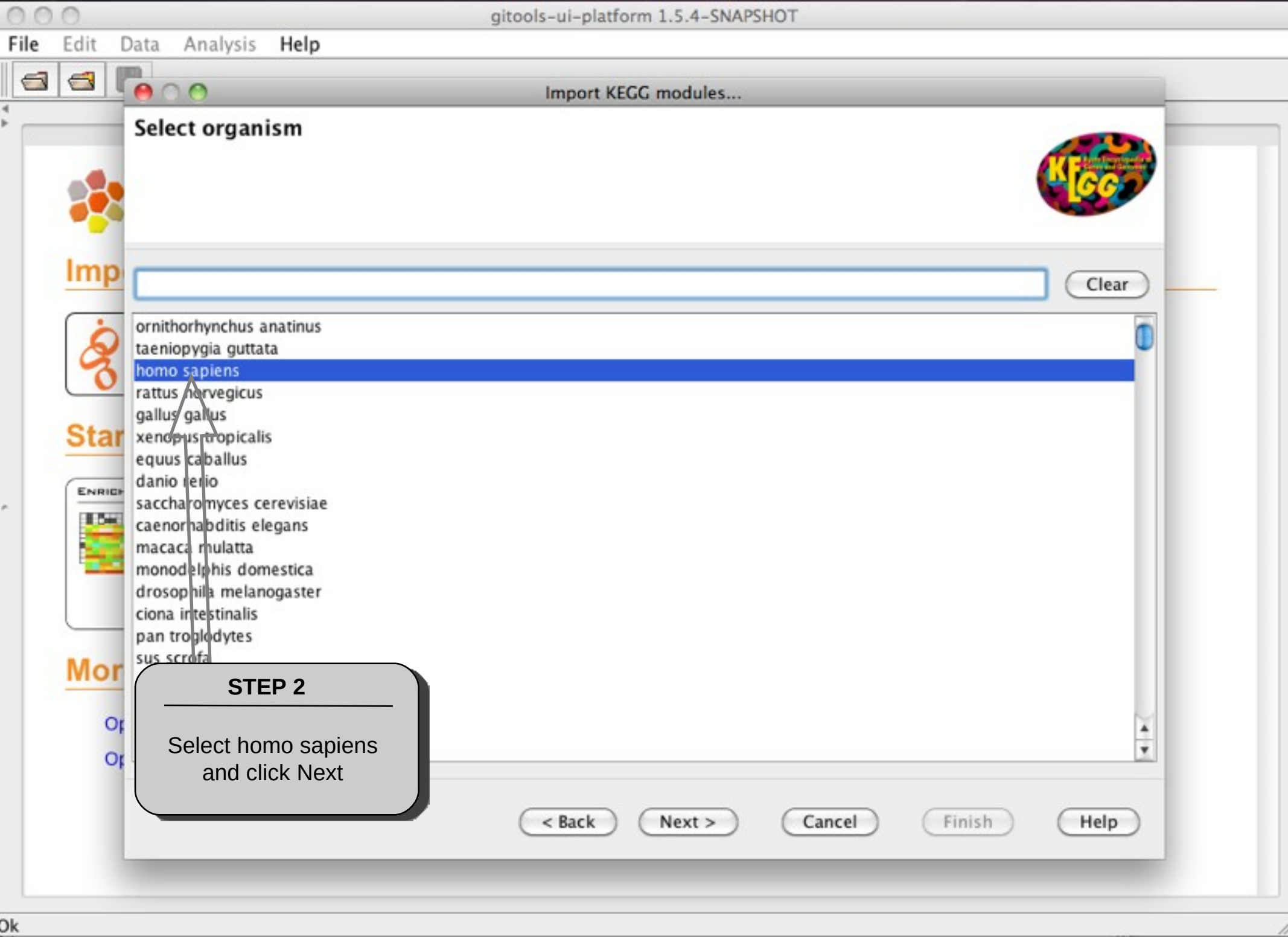
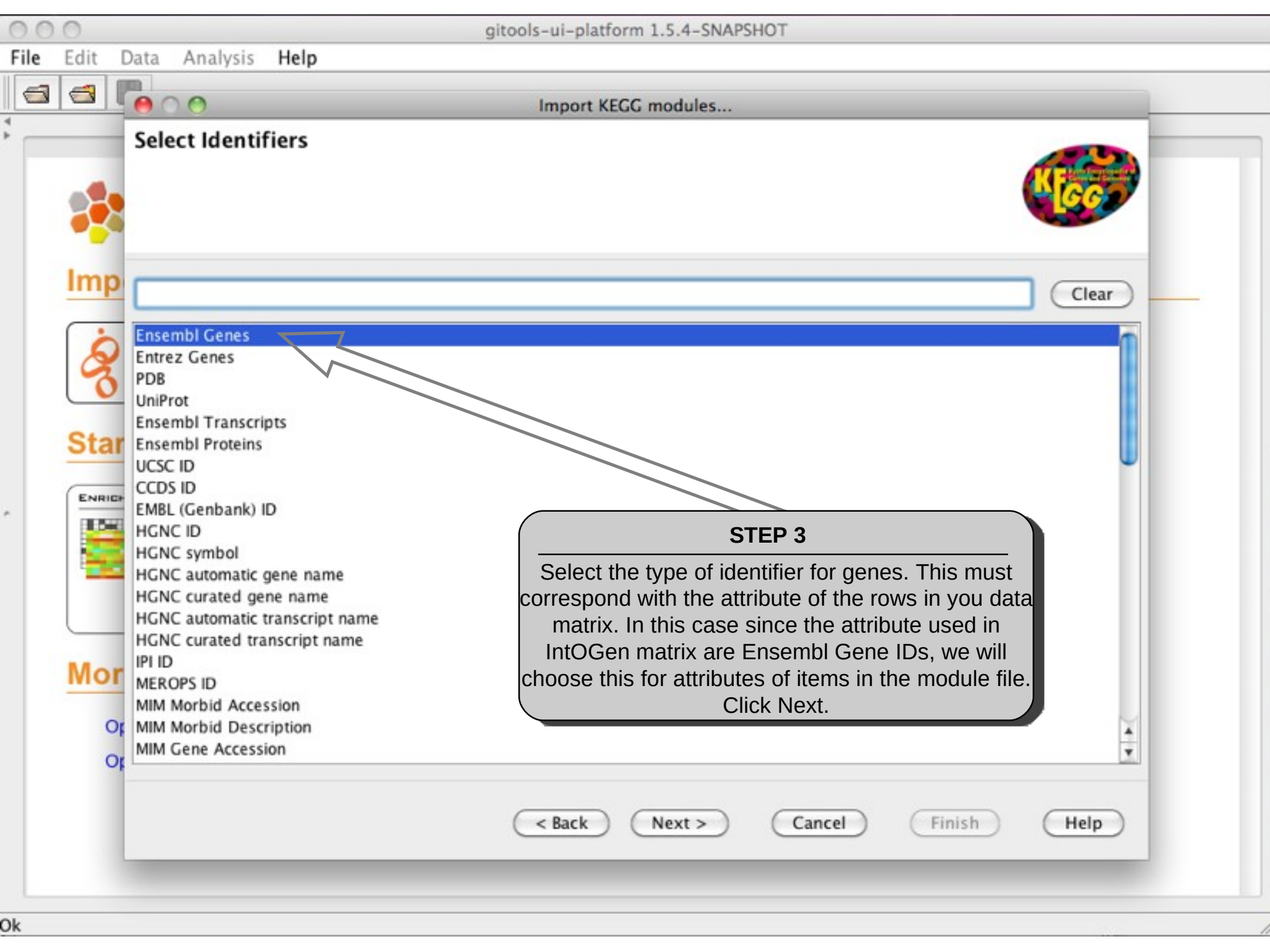
Tutorial 1.2: Import Pathways From KEGG

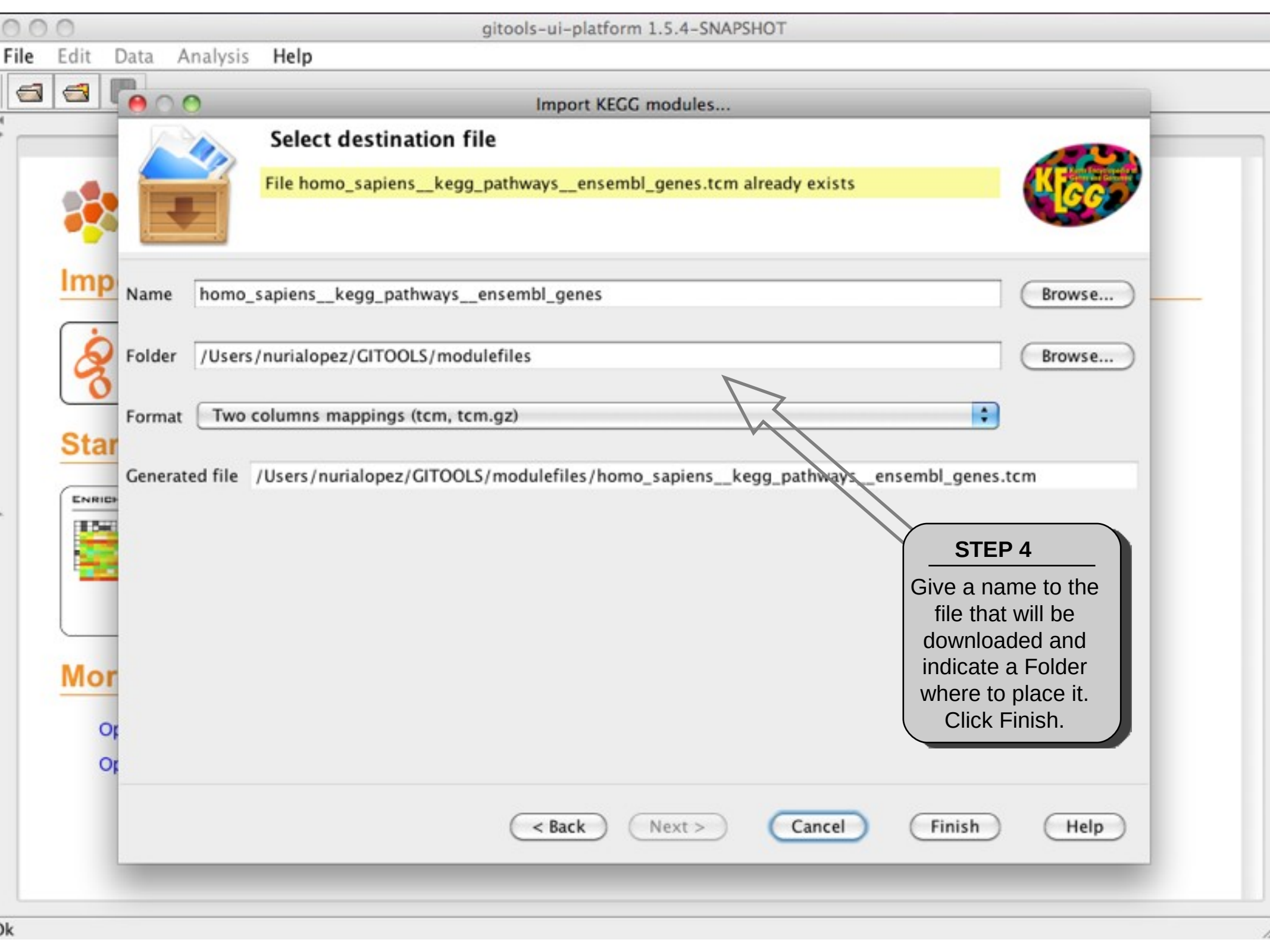
Import a module file that maps human genes to KEGG pathways

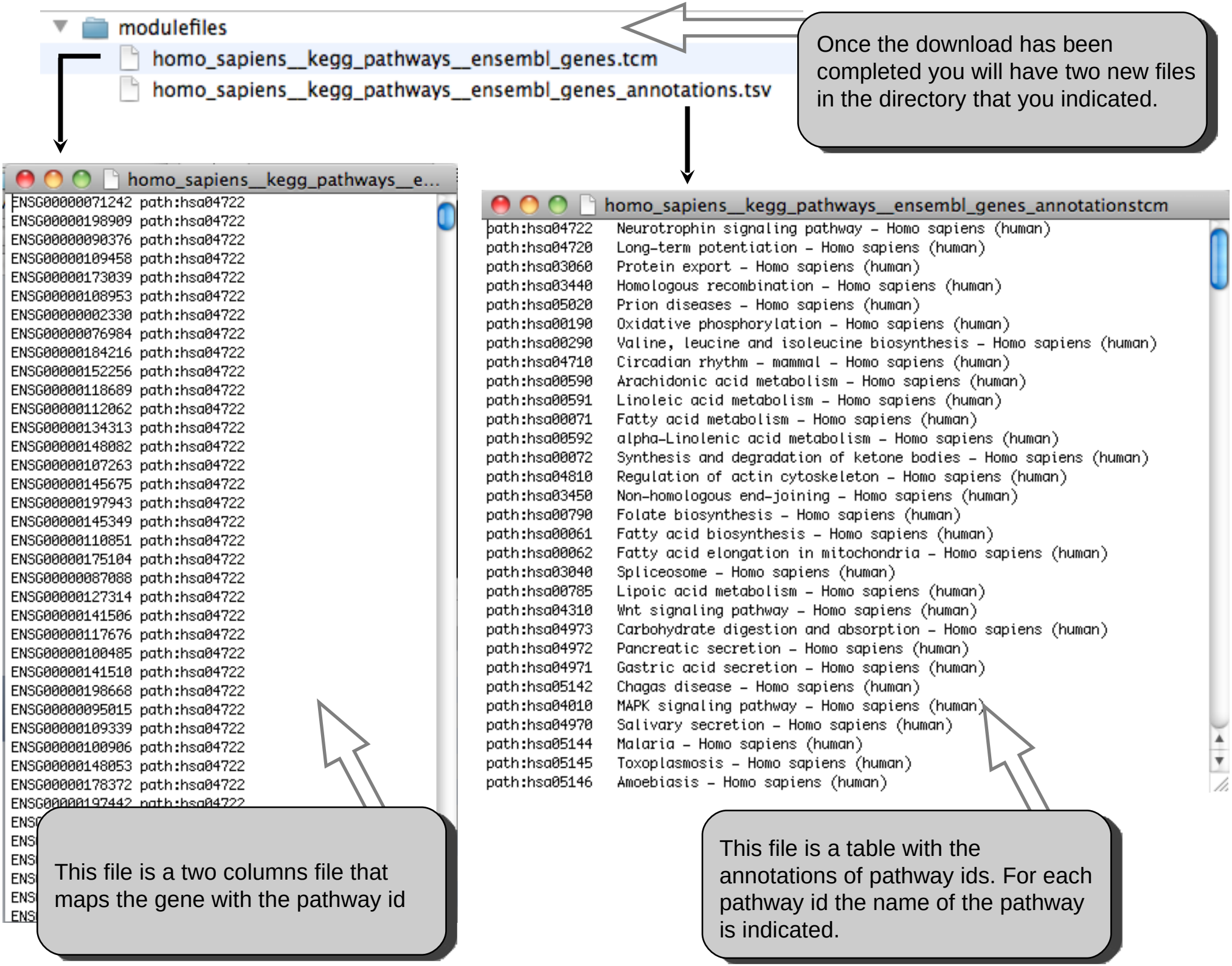

GiTools 1.5.7
File Edit Data Analysis Help
Welcome
gitools
Import data
intOgen
GO
the Gene Ontology
KEGG
biomart
Help
User guide
Tutorials
Examples
Start an analysis
Enrichment Analysis
Oncodrive
Correlations
Overlaps
Results combination
More actions
Open an analysis
Open data in a heatmap
STEP 1
Click Import Data from KEGG or select Import> Modules>KEGG pathways...


gitools-ui-platform 1.5.4-SNAPSHOT
File Edit Data Analysis Help
Import KEGG modules...
Select category and version
Category
KEGG Pathways
Ensembl version
Ensembl Last release
The Ensembl database is used to map between identifiers.
You can choose which Ensembl version to work with,
by default the most recent version is used.
STEP 2
Leave default options and click Next
< Back
Next >
Cancel
Finish
Help


gitools-ui-platform 1.5.4-SNAPSHOT
File Edit Data Analysis Help
Import KEGG modules...
Select organism
Clear
ornithorhynchus anatinus
taeniopygia guttata
homo sapiens
rattus norvegicus
gallus gallus
xenopus tropicalis
equus caballus
danio rerio
saccharomyces cerevisiae
caenorhabditis elegans
macaca mulatta
monodelphis domestica
drosophila melanogaster
ciona intestinalis
pan troglodytes
sus scrofa
STEP 2
Select homo sapiens and click Next
< Back
Next >
Cancel
Finish
Help
Ok


gitools-ui-platform 1.5.4-SNAPSHOT
File Edit Data Analysis Help
Import KEGG modules...
Select Identifiers
Clear
Ensembl Genes
Entrez Genes
PDB
UniProt
Ensembl Transcripts
Ensembl Proteins
UCSC ID
CCDS ID
EMBL (Genbank) ID
HGNC ID
HGNC symbol
HGNC automatic gene name
HGNC curated gene name
HGNC automatic transcript name
HGNC curated transcript name
IPI ID
MEROPS ID
MIM Morbid Accession
MIM Morbid Description
MIM Gene Accession
STEP 3
Select the type of identifier for genes. This must correspond with the attribute of the rows in you data matrix. In this case since the attribute used in IntOGen matrix are Ensembl Gene IDs, we will choose this for attributes of items in the module file. Click Next.
< Back
Next >
Cancel
Finish
Help
Ok


gitools-ui-platform 1.5.4-SNAPSHOT
File Edit Data Analysis Help
Import KEGG modules...
Select destination file
File homo_sapiens__kegg_pathways__ensembl_genes.tcm already exists
Name homo_sapiens__kegg_pathways__ensembl_genes
Browse...
Folder /Users/nurialopez/GITOOLS/modulefiles
Browse...
Format Two columns mappings (tcm, tcm.gz)
Generated file /Users/nurialopez/GITOOLS/modulefiles/homo_sapiens__kegg_pathways__ensembl_genes.tcm
STEP 4
Give a name to the file that will be downloaded and indicate a Folder where to place it. Click Finish.
< Back
Next >
Cancel
Finish
Help


modulefiles
homo_sapiens__kegg_pathways__ensembl_genes.tcm
homo_sapiens__kegg_pathways__ensembl_genes_annotations.tsv
Once the download has been completed you will have two new files in the directory that you indicated.
homo_sapiens__kegg_pathways__e...
ENSG00000071242 path:hsa04722
ENSG00000198909 path:hsa04722
ENSG00000090376 path:hsa04722
ENSG00000109458 path:hsa04722
ENSG00000173039 path:hsa04722
ENSG00000108953 path:hsa04722
ENSG00000002330 path:hsa04722
ENSG00000076984 path:hsa04722
ENSG00000184216 path:hsa04722
ENSG00000152256 path:hsa04722
ENSG00000118689 path:hsa04722
ENSG00000112062 path:hsa04722
ENSG00000134313 path:hsa04722
ENSG00000148082 path:hsa04722
ENSG00000107263 path:hsa04722
ENSG00000145675 path:hsa04722
ENSG00000197943 path:hsa04722
ENSG00000145349 path:hsa04722
ENSG00000110851 path:hsa04722
ENSG00000175104 path:hsa04722
ENSG00000087088 path:hsa04722
ENSG00000127314 path:hsa04722
ENSG00000141506 path:hsa04722
ENSG00000117676 path:hsa04722
ENSG00000100485 path:hsa04722
ENSG00000141510 path:hsa04722
ENSG00000198668 path:hsa04722
ENSG00000095015 path:hsa04722
ENSG00000109339 path:hsa04722
ENSG00000100906 path:hsa04722
ENSG00000148053 path:hsa04722
ENSG00000178372 path:hsa04722
ENSG00000197442 path:hsa04722
This file is a two columns file that maps the gene with the pathway id
homo_sapiens__kegg_pathways__ensembl_genes_annotationstcm
path:hsa04722 Neurotrophin signaling pathway - Homo sapiens (human)
path:hsa04720 Long-term potentiation - Homo sapiens (human)
path:hsa03060 Protein export - Homo sapiens (human)
path:hsa03440 Homologous recombination - Homo sapiens (human)
path:hsa05020 Prion diseases - Homo sapiens (human)
path:hsa00190 Oxidative phosphorylation - Homo sapiens (human)
path:hsa00290 Valine, leucine and isoleucine biosynthesis - Homo sapiens (human)
path:hsa04710 Circadian rhythm - mammal - Homo sapiens (human)
path:hsa00590 Arachidonic acid metabolism - Homo sapiens (human)
path:hsa00591 Linoleic acid metabolism - Homo sapiens (human)
path:hsa00071 Fatty acid metabolism - Homo sapiens (human)
path:hsa00592 alpha-Linolenic acid metabolism - Homo sapiens (human)
path:hsa00072 Synthesis and degradation of ketone bodies - Homo sapiens (human)
path:hsa04810 Regulation of actin cytoskeleton - Homo sapiens (human)
path:hsa03450 Non-homologous end-joining - Homo sapiens (human)
path:hsa00790 Folate biosynthesis - Homo sapiens (human)
path:hsa00061 Fatty acid biosynthesis - Homo sapiens (human)
path:hsa00062 Fatty acid elongation in mitochondria - Homo sapiens (human)
path:hsa03040 Spliceosome - Homo sapiens (human)
path:hsa00785 Lipoic acid metabolism - Homo sapiens (human)
path:hsa04310 Wnt signaling pathway - Homo sapiens (human)
path:hsa04973 Carbohydrate digestion and absorption - Homo sapiens (human)
path:hsa04972 Pancreatic secretion - Homo sapiens (human)
path:hsa04971 Gastric acid secretion - Homo sapiens (human)
path:hsa05142 Chagas disease - Homo sapiens (human)
path:hsa04010 MAPK signaling pathway - Homo sapiens (human)
path:hsa04970 Salivary secretion - Homo sapiens (human)
path:hsa05144 Malaria - Homo sapiens (human)
path:hsa05145 Toxoplasmosis - Homo sapiens (human)
path:hsa05146 Amoebiasis - Homo sapiens (human)
This file is a table with the annotations of pathway ids. For each pathway id the name of the pathway is indicated.

THANKS FOR USING GITOOLS

http://www.gitools.org