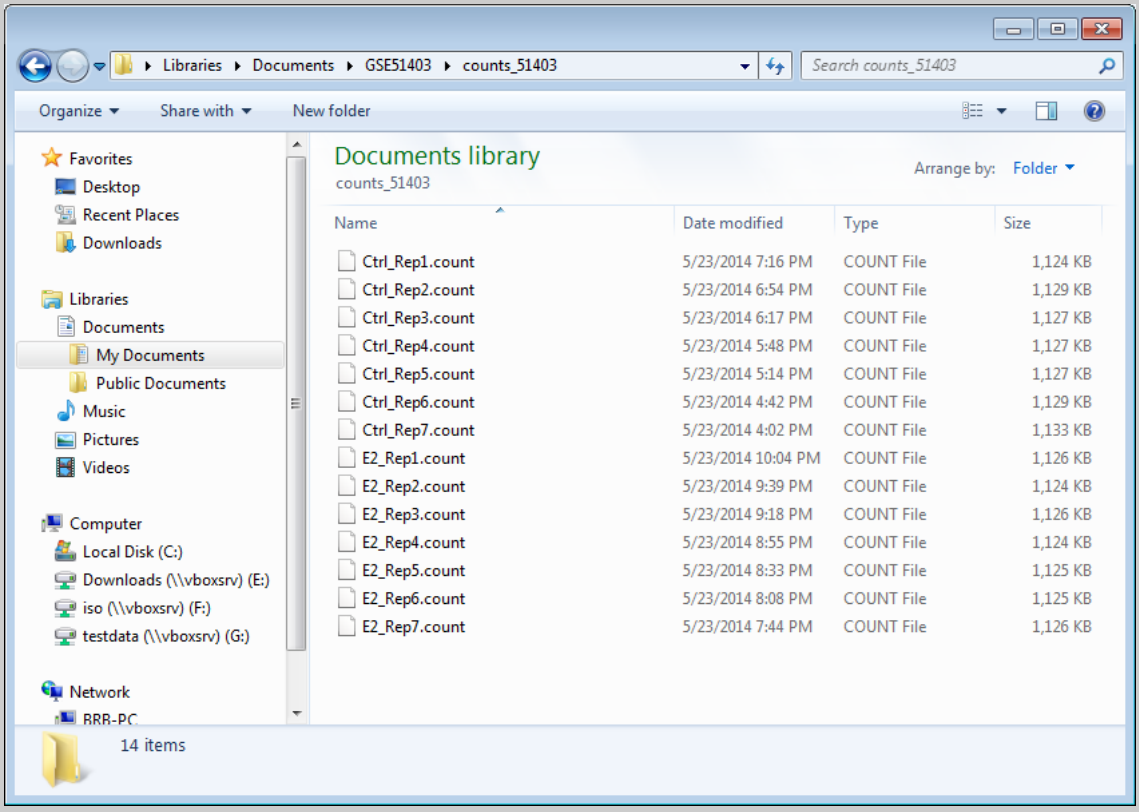
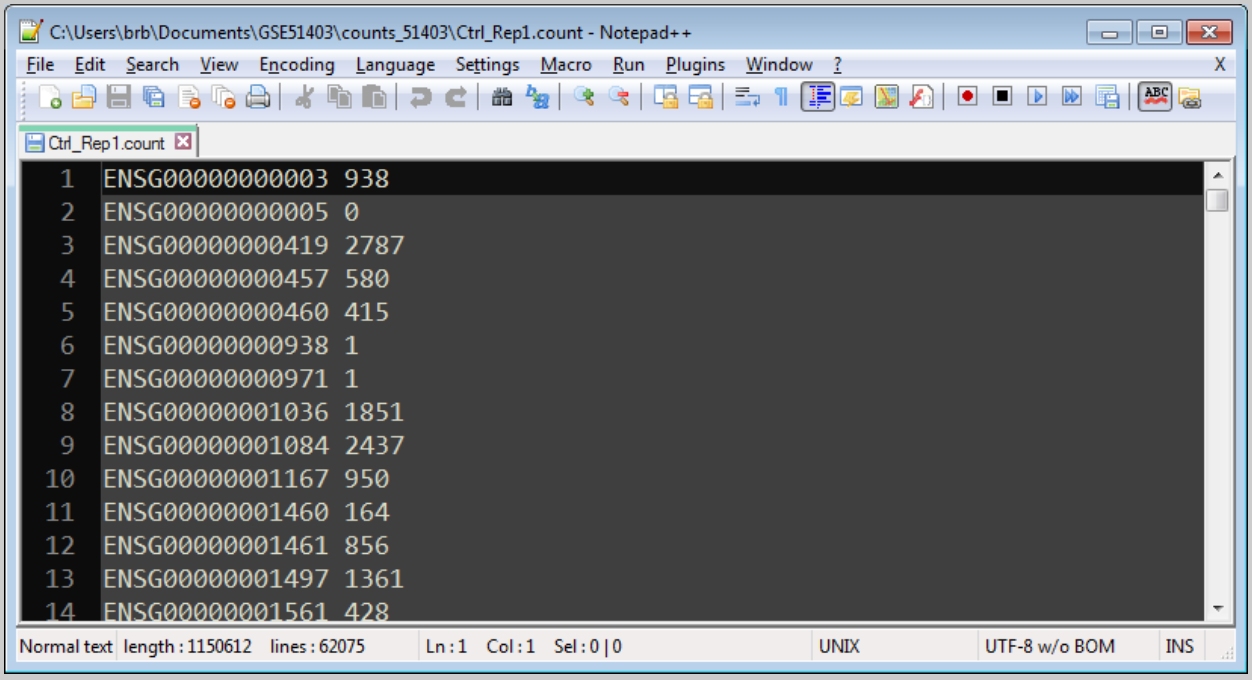
Import RNA-Seq raw count data. New feature in v4.5.0.

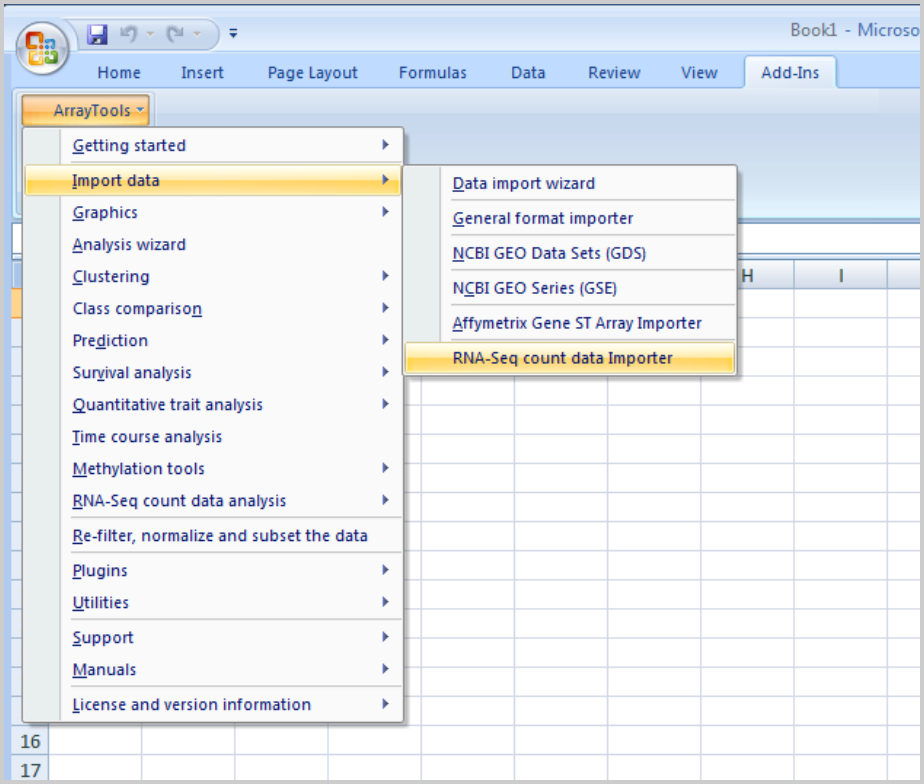
The files are obtained from BRB-DGE or HTSeq count.

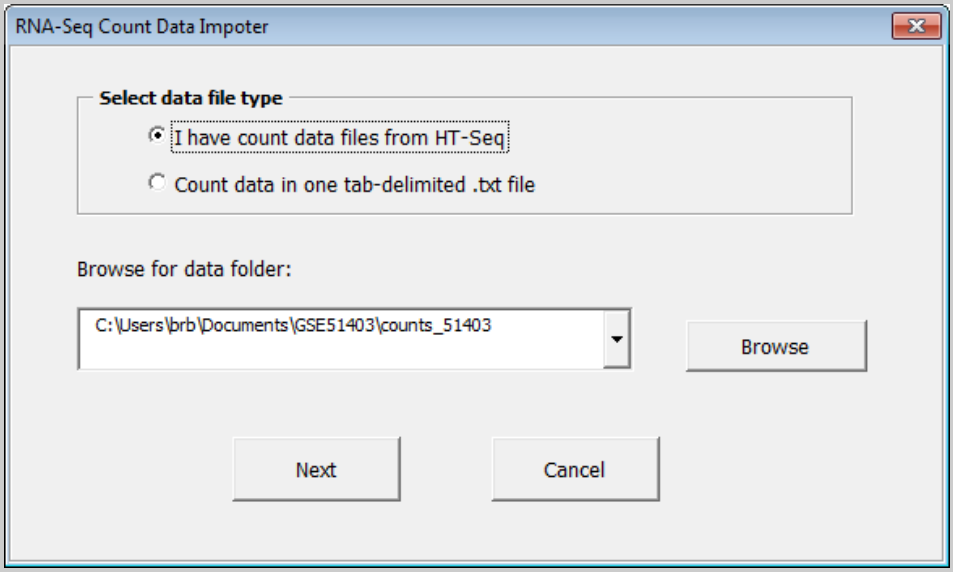


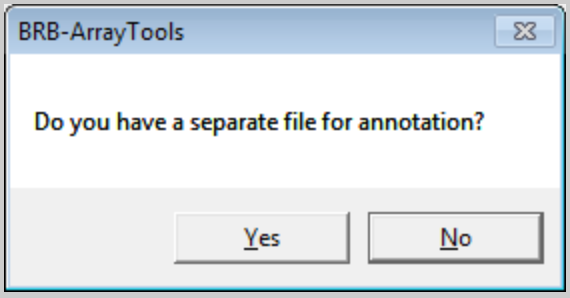
Note that the first column is Ensembl ID in this case.



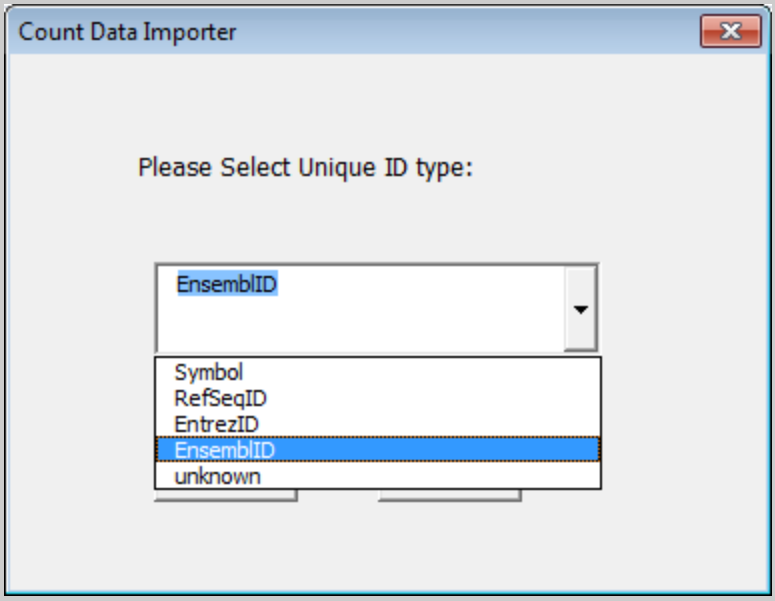
Select Import data -> RNA-Seq count data Importer

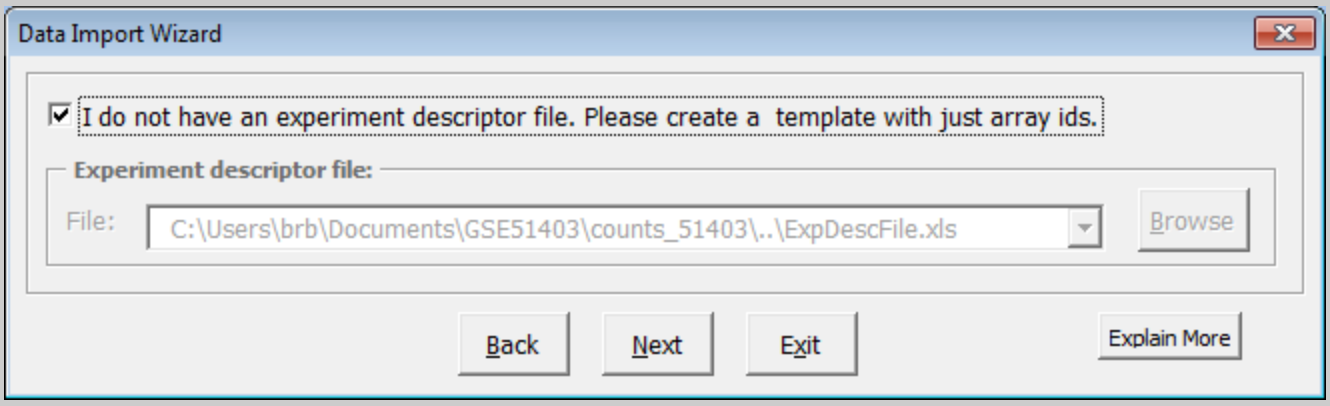


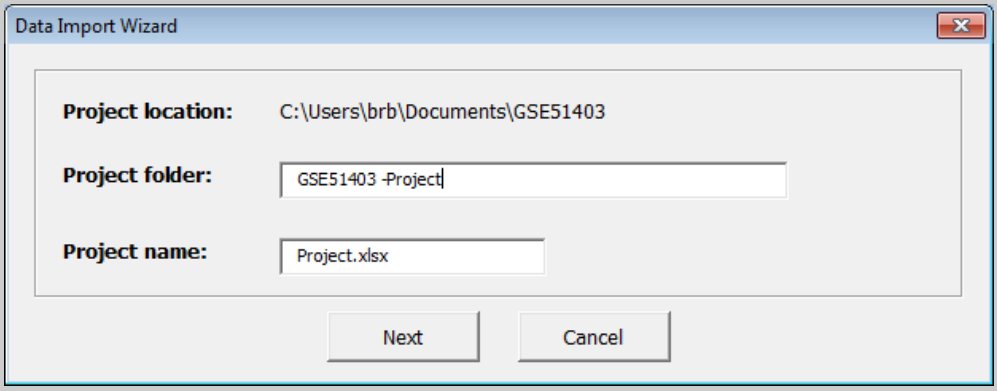


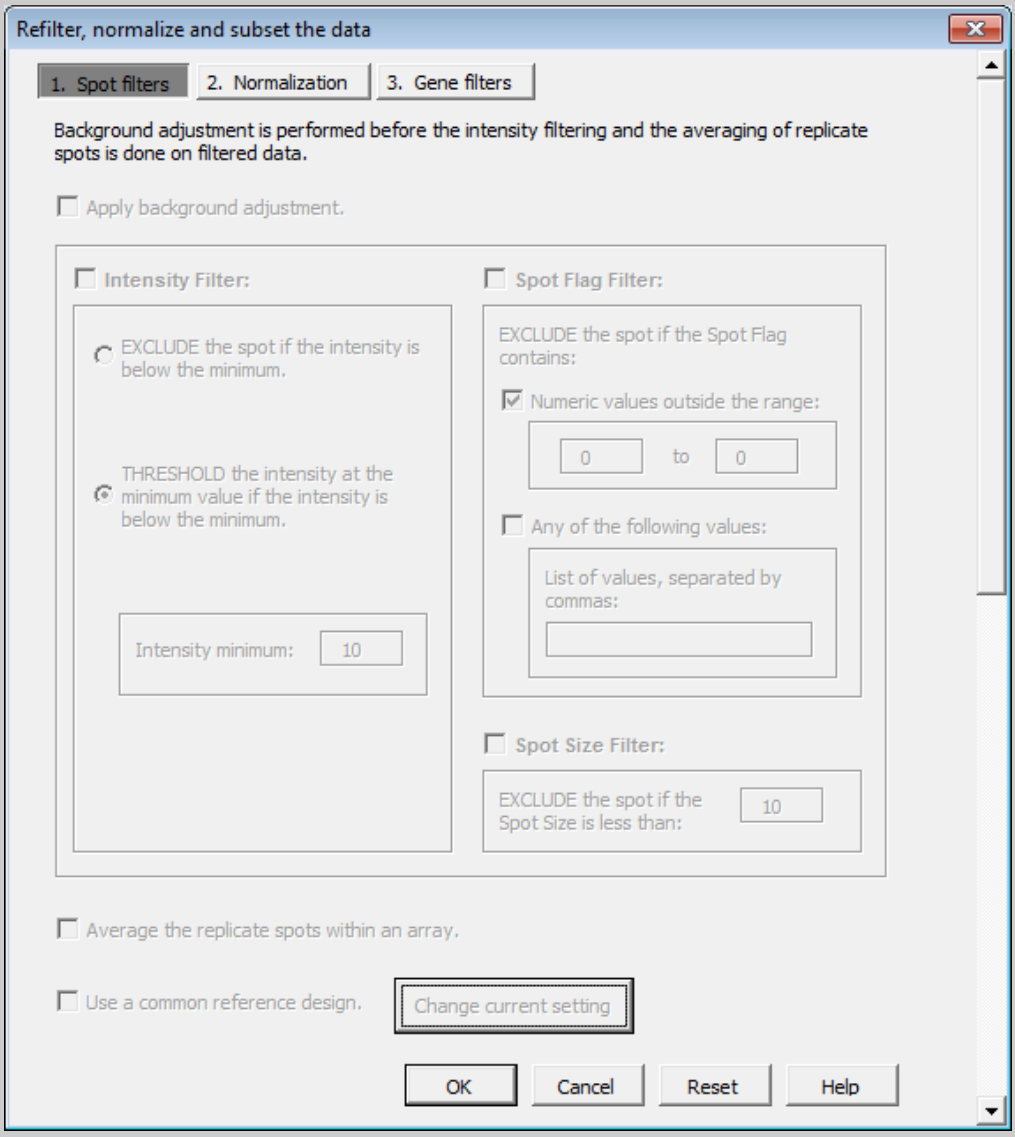


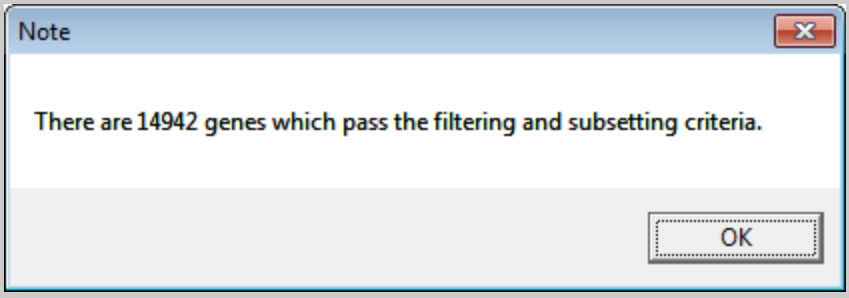
The following dialog has to be answered correctly!!! The Unique ID has to be the one from your count data file.

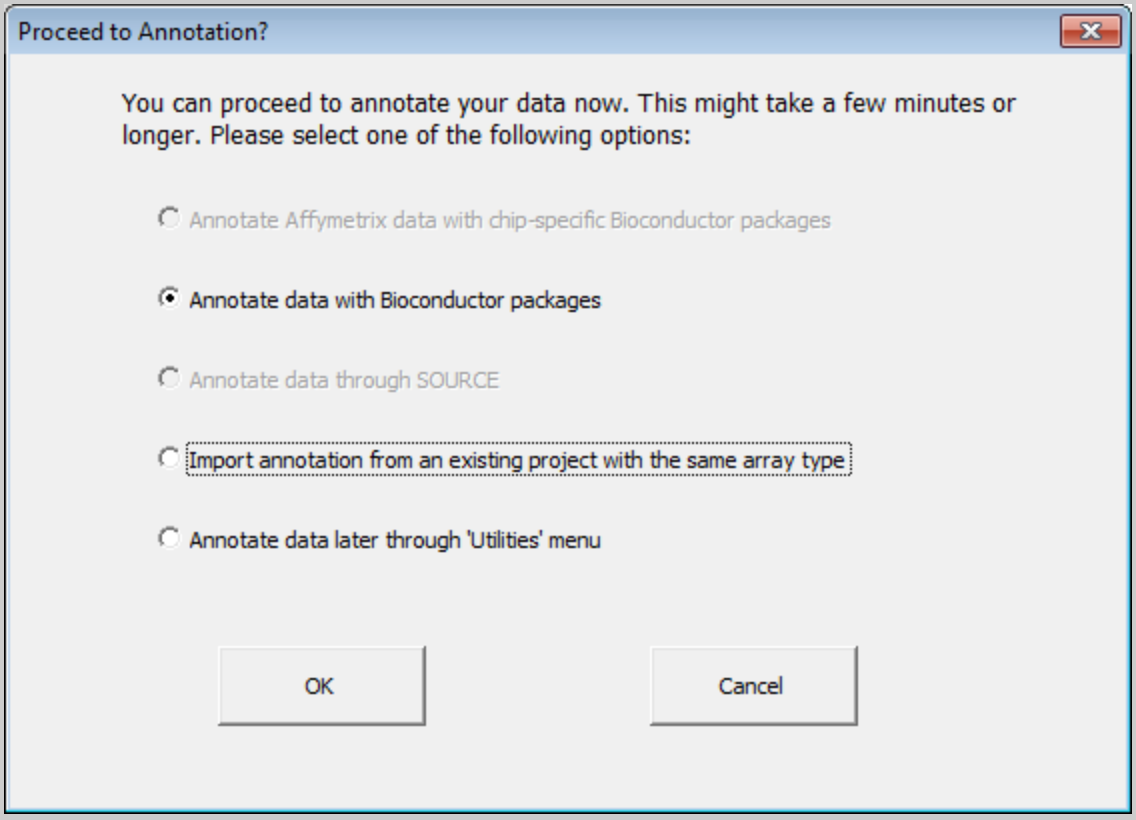


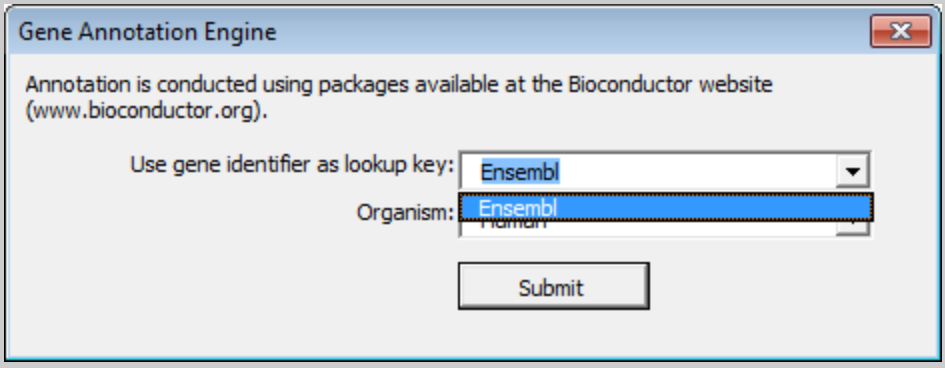


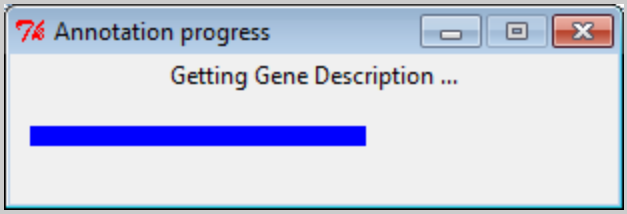

Data Import Wizard
Project location:
C:\Users\brb\Documents\GSE51403
Project folder:
GSE51403 -Project
Project name:
Project.xlsx
Next
Cancel

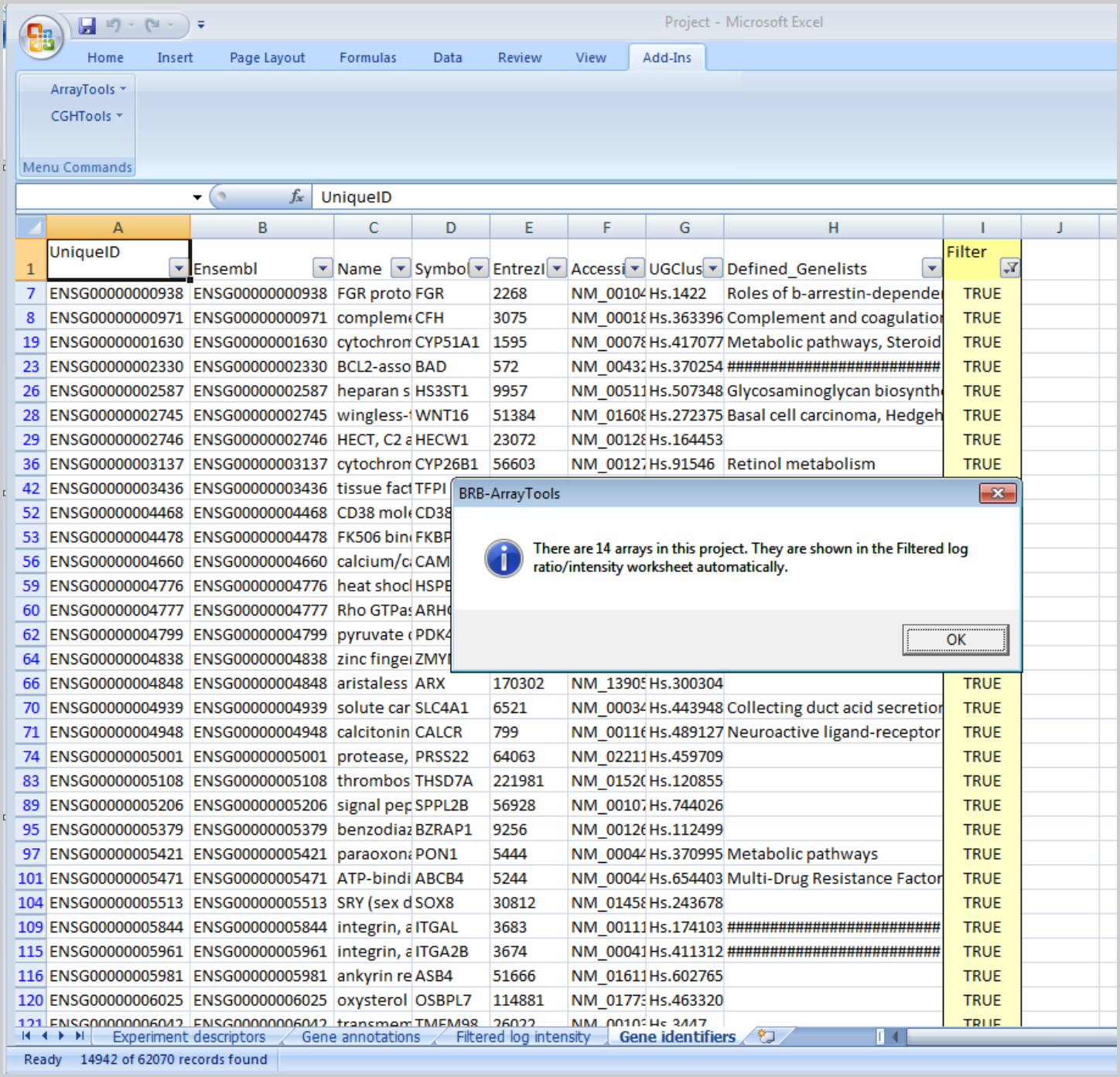

Refilter, normalize and subset the data
1. Spot filters
2. Normalization
3. Gene filters
Background adjustment is performed before the intensity filtering and the averaging of replicate spots is done on filtered data.
Apply background adjustment.
Intensity Filter:
EXCLUDE the spot if the intensity is below the minimum.
THRESHOLD the intensity at the minimum value if the intensity is below the minimum.
Intensity minimum:
10
Spot Flag Filter:
EXCLUDE the spot if the Spot Flag contains:
Numeric values outside the range:
0
to
0
Any of the following values:
List of values, separated by commas:
Spot Size Filter:
EXCLUDE the spot if the Spot Size is less than:
10
Average the replicate spots within an array.
Use a common reference design.
Change current setting
OK
Cancel
Reset
Help


Note
There are 14942 genes which pass the filtering and subsetting criteria.
OK

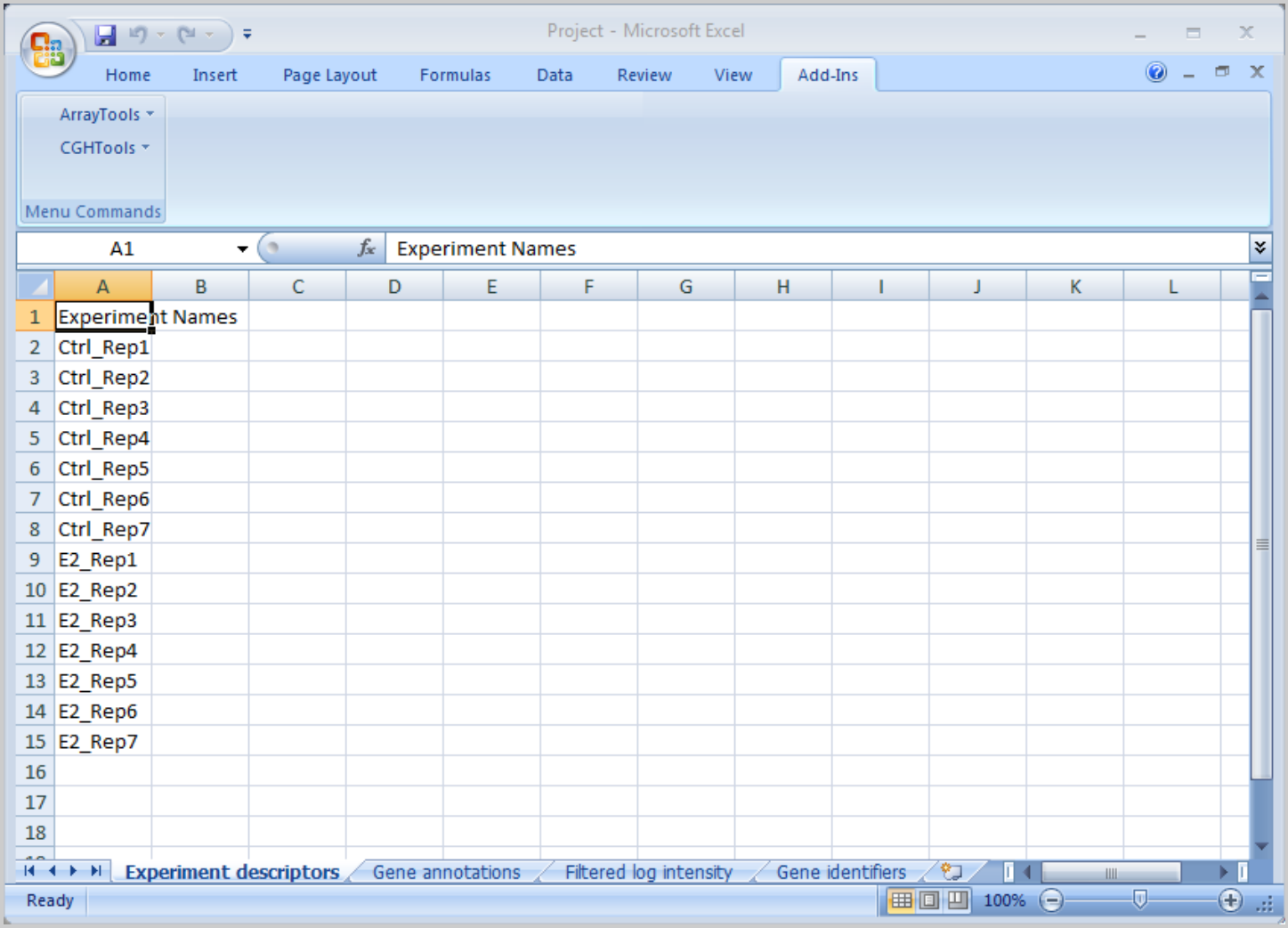

Proceed to Annotation?
You can proceed to annotate your data now. This might take a few minutes or longer. Please select one of the following options:
Annotate Affymetrix data with chip-specific Bioconductor packages
Annotate data with Bioconductor packages
Annotate data through SOURCE
Import annotation from an existing project with the same array type
Annotate data later through 'Utilities' menu
OK
Cancel


Gene Annotation Engine
Annotation is conducted using packages available at the Bioconductor website (www.bioconductor.org).
Use gene identifier as lookup key:
Ensembl
Organism:
Ensembl
Submit





	A	B	C	D	E	F	G	H	I	J
1	UniqueID	Ensembl	Name	Symbol	EntrezI	Accessi	UGClus	Defined_Genelists	Filter	
7	ENSG00000000938	ENSG00000000938	FGR proto	FGR	2268	NM_0010	Hs.1422	Roles of b-arrestin-depende	TRUE	
8	ENSG00000000971	ENSG00000000971	compleme	CFH	3075	NM_0001	Hs.363396	Complement and coagulatio	TRUE	
19	ENSG00000001630	ENSG00000001630	cytochrom	CYP51A1	1595	NM_0007	Hs.417077	Metabolic pathways, Steroid	TRUE	
23	ENSG00000002330	ENSG00000002330	BCL2-asso	BAD	572	NM_0043	Hs.370254	##########	TRUE	
26	ENSG00000002587	ENSG00000002587	heparan s	HS3ST1	9957	NM_0051	Hs.507348	Glycosaminoglycan biosynth	TRUE	
28	ENSG00000002745	ENSG00000002745	wingless-t	WNT16	51384	NM_0160	Hs.272375	Basal cell carcinoma, Hedgeh	TRUE	
29	ENSG00000002746	ENSG00000002746	HECT, C2 a	HECW1	23072	NM_0012	Hs.164453		TRUE	
36	ENSG00000003137	ENSG00000003137	cytochrom	CYP26B1	56603	NM_0012	Hs.91546	Retinol metabolism	TRUE	
42	ENSG00000003436	ENSG00000003436	tissue fact	TFPI						
52	ENSG00000004468	ENSG00000004468	CD38 mol	CD38						
53	ENSG00000004478	ENSG00000004478	FK506 bin	FKBP						
56	ENSG00000004660	ENSG00000004660	calcium/c	CAM						
59	ENSG00000004776	ENSG00000004776	heat shoc	HSPE						
60	ENSG00000004777	ENSG00000004777	Rho GTPas	ARH						
62	ENSG00000004799	ENSG00000004799	pyruvate	PDK4						
64	ENSG00000004838	ENSG00000004838	zinc finge	ZMYI						
66	ENSG00000004848	ENSG00000004848	aristaless	ARX	170302	NM_1390	Hs.300304		TRUE	
70	ENSG00000004939	ENSG00000004939	solute car	SLC4A1	6521	NM_0003	Hs.443948	Collecting duct acid secretio	TRUE	
71	ENSG00000004948	ENSG00000004948	calcitonin	CALCR	799	NM_0011	Hs.489127	Neuroactive ligand-receptor	TRUE	
74	ENSG00000005001	ENSG00000005001	protease,	PRSS22	64063	NM_0221	Hs.459709		TRUE	
83	ENSG00000005108	ENSG00000005108	thrombos	THSD7A	221981	NM_0152	Hs.120855		TRUE	
89	ENSG00000005206	ENSG00000005206	signal pep	SPPL2B	56928	NM_0010	Hs.744026		TRUE	
95	ENSG00000005379	ENSG00000005379	benzodiaz	BZRAP1	9256	NM_0012	Hs.112499		TRUE	
97	ENSG00000005421	ENSG00000005421	paraoxona	PON1	5444	NM_0004	Hs.370995	Metabolic pathways	TRUE	
101	ENSG00000005471	ENSG00000005471	ATP-bindi	ABCB4	5244	NM_0004	Hs.654403	Multi-Drug Resistance Factor	TRUE	
104	ENSG00000005513	ENSG00000005513	SRY (sex d	SOX8	30812	NM_0145	Hs.243678		TRUE	
109	ENSG00000005844	ENSG00000005844	integrin, a	ITGAL	3683	NM_0011	Hs.174103	##########	TRUE	
115	ENSG00000005961	ENSG00000005961	integrin, a	ITGA2B	3674	NM_0004	Hs.411312	##########	TRUE	
116	ENSG00000005981	ENSG00000005981	ankyrin re	ASB4	51666	NM_0161	Hs.602765		TRUE	
120	ENSG00000006025	ENSG00000006025	oxysterol	OSBPL7	114881	NM_0177	Hs.463320		TRUE	
121	ENSG00000006042	ENSG00000006042	transmem	TMEM98	26022	NM_0010	Hs.3447		TRUE	



	A	B	C	D	E	F	G	H	I	J	K	L
1	Experiment Names											
2	Ctrl_Rep1											
3	Ctrl_Rep2											
4	Ctrl_Rep3											
5	Ctrl_Rep4											
6	Ctrl_Rep5											
7	Ctrl_Rep6											
8	Ctrl_Rep7											
9	E2_Rep1											
10	E2_Rep2											
11	E2_Rep3											
12	E2_Rep4											
13	E2_Rep5											
14	E2_Rep6											
15	E2_Rep7											
16												
17												
18												

Done.