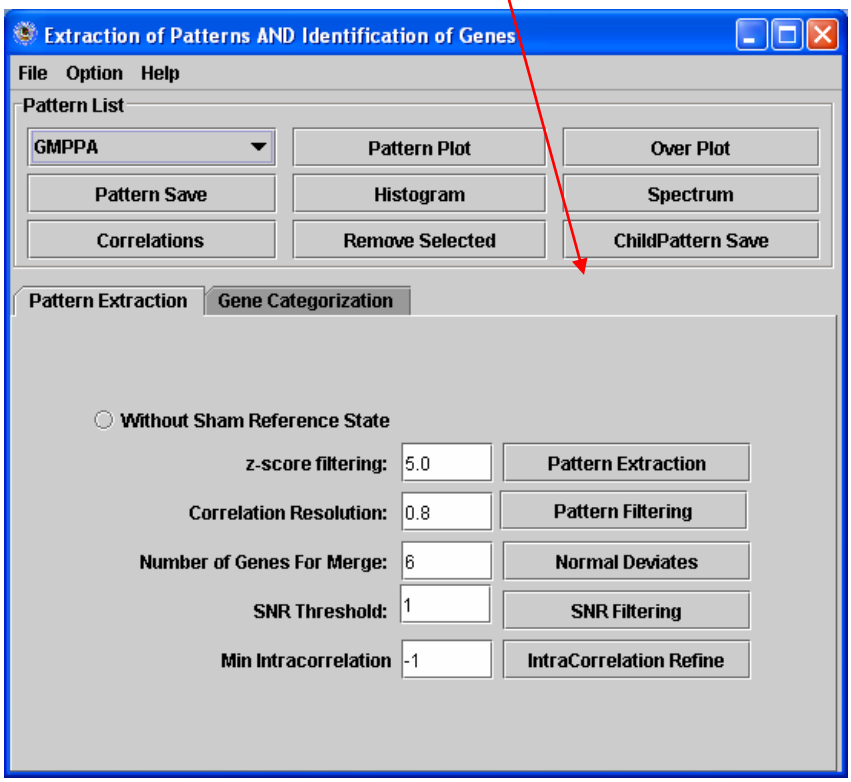
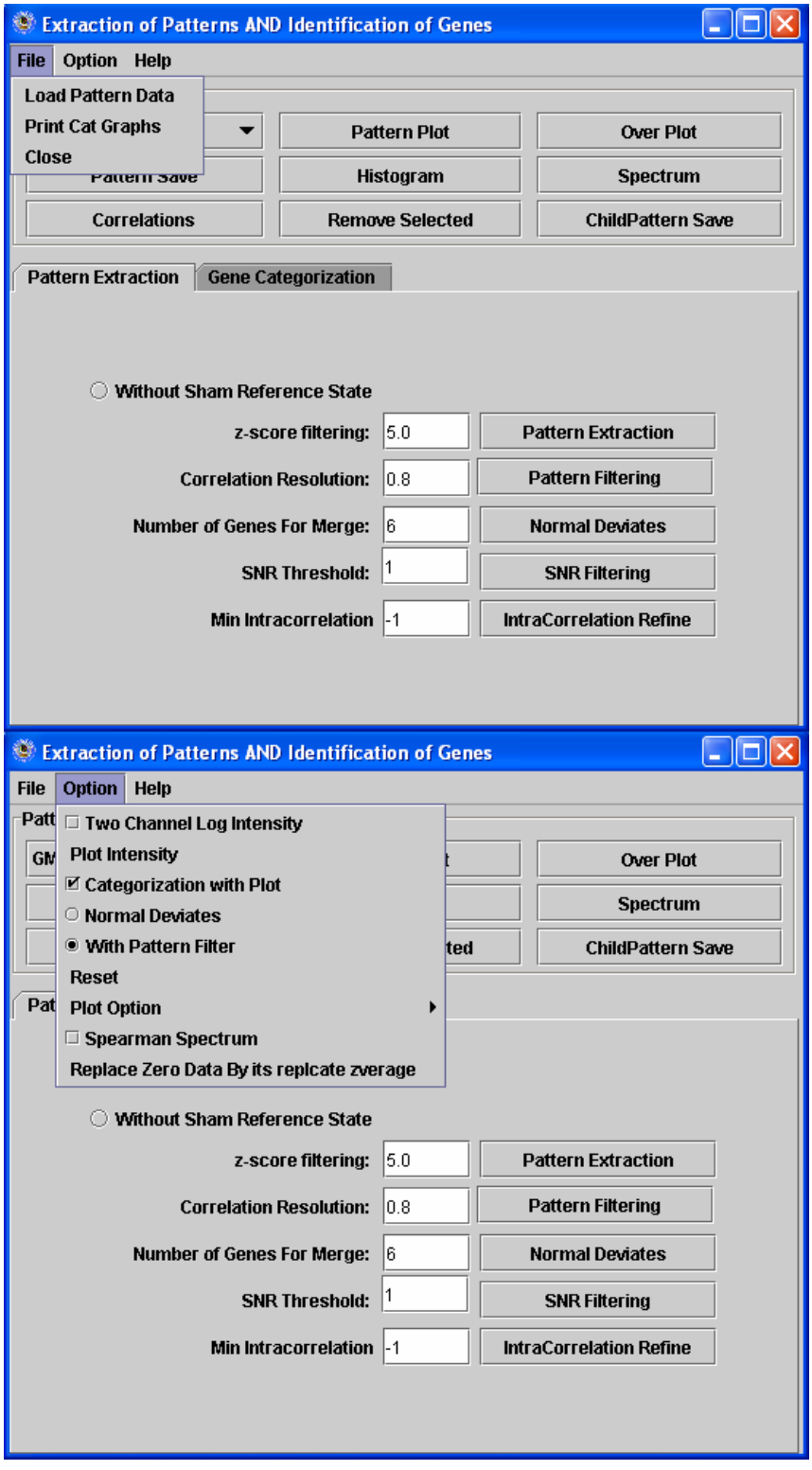
Extraction of Patterns and Identification of Genes (EPIG)

EPIG is an in-house developed microarray gene expression data analysis tool. EPIG consists of two parts. The first part is pattern extraction. The second part is the gene identification.

(1) Extraction of Gene Expression Patterns

User may click Button “Pattern Extraction” to perform pattern extraction. “z-score filtering” will filter those genes which have one or more data points with z-score larger than 5. “Correlation Resolution” is a correlation threshold to filter those profiles with a r-value larger than 0.8 to another profile. “Number of Genes For Merge” gives a number with which number of profiles to be merged. “SNR threshold” filter those profiles which have the SNR less than the given value. (Detail see EPIG manuscript)




Extraction of Patterns AND Identification of Genes
File
Option
Help
Load Pattern Data
Print Cat Graphs
Close
Pattern Plot
Over Plot
Histogram
Spectrum
Correlations
Remove Selected
ChildPattern Save
Pattern Extraction
Gene Categorization
Without Sham Reference State
z-score filtering:
5.0
Pattern Extraction
Correlation Resolution:
0.8
Pattern Filtering
Number of Genes For Merge:
6
Normal Deviates
SNR Threshold:
1
SNR Filtering
Min Intracorrelation
-1
IntraCorrelation Refine
Extraction of Patterns AND Identification of Genes
File
Option
Help
Two Channel Log Intensity
Plot Intensity
Categorization with Plot
Normal Deviates
With Pattern Filter
Reset
Plot Option
Spearman Spectrum
Replace Zero Data By its replcate zverage
Over Plot
Spectrum
ChildPattern Save
Without Sham Reference State
z-score filtering:
5.0
Pattern Extraction
Correlation Resolution:
0.8
Pattern Filtering
Number of Genes For Merge:
6
Normal Deviates
SNR Threshold:
1
SNR Filtering
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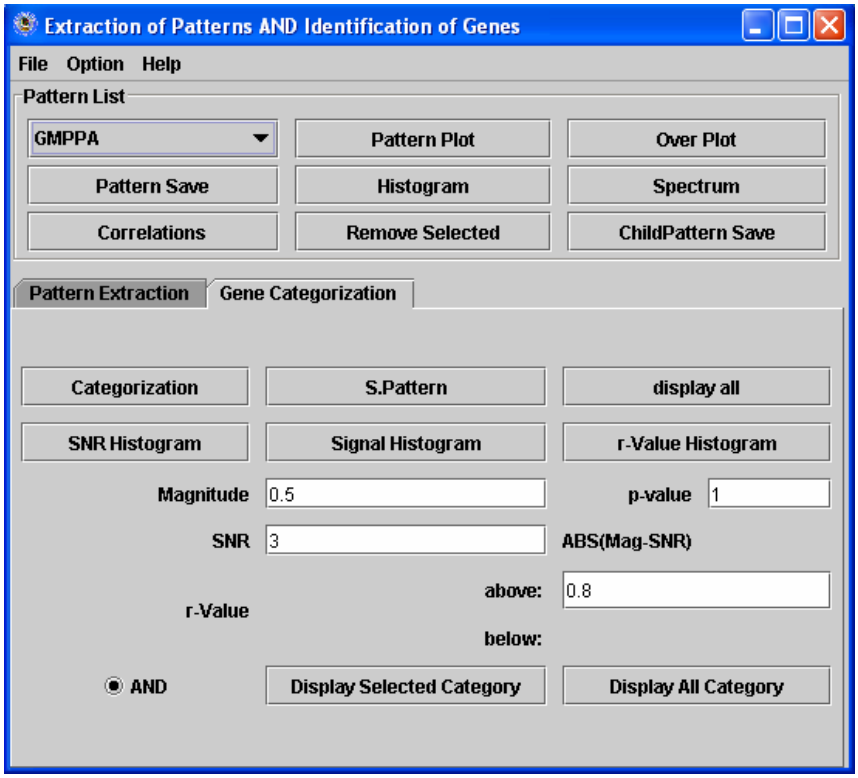
-1
IntraCorrelation Refine


Extraction of Patterns AND Identification of Genes
File
Option
Help
Pattern List
GMPPA
Pattern Plot
Over Plot
Pattern Save
Histogram
Spectrum
Correlations
Remove Selected
ChildPattern Save
Pattern Extraction
Gene Categorization
Categorization
S.Pattern
display all
SNR Histogram
Signal Histogram
r-Value Histogram
Magnitude
0.5
p-value
1
SNR
3
ABS(Mag-SNR)
r-Value
above:
0.8
below:
AND
Display Selected Category
Display All Category