

Here is a sample of an ExpressionView XML file (ALL test data).

To improve readability, we only show the first entry of the lists.

Comments are written in red.

```
<?xml version="1.0" encoding="UTF-8"?>
<ged>
    # summary of data
    <summary>
        <description>ExpressionView data
file</description>
        <version>1.0</version>
        <nmodules>8</nmodules>
        <ngenes>3522</ngenes>
        <nsamples>128</nsamples>
    </summary>
```

```
    # description of experiment
    <experimentdata>
        <title>Gene expression profile of adult T-
cell acute lymphocytic leukemia identifies distinct
subsets of patients with different response to
therapy and survival.</title>
        <name>Chiaretti et al.</name>
        <lab>Department of Medical Oncology,
Dana-Farber Cancer Institute, Department of
Medicine, Brigham and Women's Hospital,
```

Harvard Medical School, Boston, MA 02115,  
USA.</lab>

<abstract>Gene expression profiles were examined in 33 adult patients with T-cell acute lymphocytic leukemia (T-ALL). Nonspecific filtering criteria identified 313 genes differentially expressed in the leukemic cells. Hierarchical clustering of samples identified 2 groups that reflected the degree of T-cell differentiation but was not associated with clinical outcome. Comparison between refractory patients and those who responded to induction chemotherapy identified a single gene, interleukin 8 (IL-8), that was highly expressed in refractory T-ALL cells and a set of 30 genes that was highly expressed in leukemic cells from patients who achieved complete remission. We next identified 19 genes that were differentially expressed in T-ALL cells from patients who either had a relapse or remained in continuous complete remission. A model based on the expression of 3 of these genes was predictive of duration of remission. The 3-gene model was validated on a further set of T-ALL samples from 18 additional patients treated on the same clinical protocol. This study demonstrates that gene expression profiling can identify a limited number of genes that are predictive of response to induction therapy and

remission duration in adult patients with T-  
ALL.</abstract>

```
<url></url>
<annotation>hgu95av2</annotation>
<organism>Homo sapiens</organism>
</experimentdata>
```

# list of genes

```
<genes>
    # column names and titles for genes
    (shown in the datagrid)
```

```
    <genetags>
        <id>#</id>
        <score>Score</score>
        <name>Name</name>
        <symbol>Symbol</symbol>
        <entrezid>EntrezID</entrezid>
    </genetags>
```

# individual gene

```
<gene>
    <id>1</id>
    <score/>
    <name>33500_i_at</name>
    <symbol>LOC100126583</symbol>
    <entrezid>100126583</entrezid>
</gene>
```

...

</genes>

# list of samples

<samples>

# column names and titles for samples

(shown in thedatagrid)

<sampletags>

<id>#</id>

<score>Score</score>

<name>Name</name>

<diagnosis> Date of  
diagnosis</diagnosis>

<sex> Gender of the patient</sex>

<age> Age of the patient at  
entry</age>

</sampletags>

# individual sample

<sample>

<id>128</id>

<score/>

<name>LAL4</name>

<diagnosis>NA</diagnosis>

<sex>NA</sex>

<age>NA</age>

</sample>

...

```
</samples>
```

# list of modules

```
<modules>
```

# column names and titles for modules  
(shown in thedatagrid)

```
<moduletags>
```

```
    <id>#</id>
```

```
    <name>Name</name>
```

```
    <iterations>iterations</iterations>
```

```
    <oscillation>oscillation</oscillation>
```

```
    <thr_row>thr.row</thr_row>
```

```
    <thr_col>thr.col</thr_col>
```

```
    <freq>freq</freq>
```

```
    <rob>rob</rob>
```

```
    <rob_limit>rob.limit</rob_limit>
```

```
</moduletags>
```

# column names and titles for go  
categories (shown in thedatagrid)

```
<gotags>
```

```
    <id>#</id>
```

```
    <go>GO</go>
```

```
    <term>Term</term>
```

```
<ontology>Ontology</ontology>
<pvalue>PValue</pvalue>
<oddsratio>OddsRatio</oddsratio>
<expcount>ExpCount</expcount>
<count>Count</count>
<size>Size</size>
</gotags>
```

# column names and titles for kegg pathways (shown in the datagrid)

```
<keggtags>
<id>#</id>
<kegg>KEGG</kegg>
<pathname>Path Name</pathname>
<pvalue>PValue</pvalue>
<oddsratio>OddsRatio</oddsratio>
<expcount>ExpCount</expcount>
<count>Count</count>
<size>Size</size>
</keggtags>
```

# individual module

```
<module>
<id>1</id>
<name>module 1</name>
<iterations>22</iterations>
<oscillation>0</oscillation>
<thr_row>2.7</thr_row>
```

```
<thr_col>1.4</thr_col>
<freq>1</freq>
<rob>21.98</rob>
<rob_limit>21.98</rob_limit>
# list of genes contained in module
<containedgenes>214, 215, 216, 217,
218, 219, 220, 221, 222, 223, 224, 225, 226, 227,
228, 229, 230, 231, 232, 233, 234, 235, 236, 237,
238, 239, 240, 241, 242, 243, 244, 245, 246, 247,
248, 249, 250, 251</containedgenes>
# gene scores
<genescores>-0.94, -0.88, 0.74, -0.76,
-1.00, -0.84, -0.74, -0.76, -0.85, -0.88, 0.78, -0.80,
-0.95, 0.78, 0.79, 0.79, 0.83, 0.92, 0.83, -1.00,
0.79, 0.89, -0.84, -0.91, -0.82, -0.83, -0.80, 0.73,
-0.86, -0.78, -0.74, -0.80, -0.73, 0.87, -0.82, -0.92,
0.77, 0.95</genescores>
# list of samples contained in module
<containedsamples>63, 64, 65, 54,
66, 67, 55, 56, 53, 57, 29, 58, 62, 30, 59, 68, 69,
60, 70, 61, 71</containedsamples>
# sample scores
<samplescores>-0.62, -1.00, -0.77,
-0.40, -0.28, -0.70, -0.48, -0.14, -0.36, -0.63, -0.26,
-0.48, -0.22, -0.27, -0.46, -0.34, -0.07, -0.76, -0.25,
-0.08, -0.36</samplescores>
# list of intersecting modules
```

```
<intersectingmodules>7</intersectingmodules>
```

```
# list of go categories
<gos>
    # individual go category
    <go>
        <id>1</id>
        <go>GO:0006955</go>
        <term>immune
        response</term>
        <ontology>BP</ontology>
        <pvalue>6.78e-07</pvalue>
        <oddsratio>10.13</oddsratio>
        <expcount>2.72</expcount>
        <count>16</count>
        <size>213</size>
    </go>
    ...
</gos>

# list of kegg pathways
<keggs>
    # individual kegg pathway
    <kegg>
        <id>1</id>
```

```
<kegg>05310</kegg>

<pathname>Asthma</pathname>
    <pvalue>9.67e-05</pvalue>
    <oddsratio>36.43</oddsratio>
    <expcount>0.26</expcount>
    <count>5</count>
    <size>14</size>
</kegg>

    ...
</keggs>
</module>

    ...
</modules>
```

```
# gene expression data
# rounded to two digits, encoded in Base64
# loop over genes, loop over samples
<data>
9/oH7P8U9hPu/xj47e7p9iHp8PL+
+/ft6v8YN+3p8AEMBvb07fX2C/gG4wgg7/f9AxgJB
Qfv7fHm
6ej94AX48Pbu6+AA7OH29fPu7enu5uv89R3+8Qg
m8vcH6vn89/H16u7zAgAEA+716fjk5+zq6AXu
```

...  
    </data>  
  </ged>