Building cellLinesUsed.Rda

Keith A. Baggerly

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1 Executive Summary

1.1 Introduction

In this report, we produce a list containing of the sensitive and resistant cell lines used in each of several papers or listings using the cell line-based chemosensitivity approach of Potti et al. [1].

1.2 Methods

We invoke the analysis script "enumeratingCellLines.Rnw" which describes the matching steps involved in detail.

1.3 Results

We created a list of lists of cell lines used, "cellLinesUsed," vectors of names for "nscNumbers, nci60Names, gyorffyCellLines," a vector naming the "informationSources," a trichotomized matrix of cell lines by drug/information source specifying for each combination whether the cell line was Sensitive, Resistant, or Not Used, and a logical matrix of information source by drug/information source combination which can be used for visualizing which drugs were discussed in each information source. We stored these in RDataObjects as "cellLinesUsed.Rda."

2 Options and Libraries

```
> options(width = 80)
```

3 Invoking enumeratingCellLines.Rnw

All we do here is invoke the earlier analysis script. This file is here to make automation easier using our naming conventions.

```
> Stangle(file.path("RNowebSource", "enumeratingCellLines.Rnw"))

Writing to file enumeratingCellLines.R

> source("enumeratingCellLines.R")

loading  RDataObjects/novartisA.Rda  from cache
```

4 Appendix

4.1 File Location

```
> getwd()

[1] "/Users/kabagg/ReproRsch/WebSite"
```

4.2 Saves

4.3 SessionInfo

```
> sessionInfo()

R version 2.9.1 (2009-06-26)
i386-apple-darwin8.11.1

locale:
en_US.UTF-8/en_US.UTF-8/C/C/en_US.UTF-8/en_US.UTF-8

attached base packages:
[1] stats     graphics  grDevices utils     datasets  methods   base
```

```
other attached packages:
[1] GEOquery_2.8.0       RCurl_0.98-1         bitops_1.0-4.1
[4] Biobase_2.4.1        smacof_1.0-0         scatterplot3d_0.3-28
[7] rgl_0.84             polynom_1.3-5        MASS_7.2-47

loaded via a namespace (and not attached):
[1] tools_2.9.1
```

References

[1] Potti A, Dressman HK, Bild A, et al: Genomic signatures to guide the use of chemotherapeutics. *Nat Med*, **12**:1294-1300, 2006.