Comparaciones estadísticas

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1 Introducción y Objetivo

2 Paquetes y datos

2.1 Metadata original

Para asegurar que examinamos todas las opciones, examinamos las variables originales.

Los datos a comparar son los resultados obtenidos de los análisis previos de deconvolución:

- GSE22155 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi) con dos plataformas: GPL6102 y GPL6947.
- GSE35640 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE35640)
- GSE61992 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE61992)
- GSE91061 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE91061)
- TCGA-SKCM (https://portal.gdc.cancer.gov/projects/TCGA-SKCM)

De manera excepcional, tenemos GSE120575 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE120575), que consiste en un dataset scRNA-seq en el que han analizado muestras tumorales y controles.

```
setwd("~/Desktop/ELENA_UOC/TFM")
GSE22155_GPL6102 <- read_csv("Deconvolution_analysis/Quantiseq_analyses/quantiseqr_GSE22155_GPL6102.csv
GSE22155_GPL6947 <- read_csv("Deconvolution_analysis/Quantiseq_analyses/quantiseqr_GSE22155_GPL6947.csv
GSE35640 <- read_csv("Deconvolution_analysis/Quantiseq_analyses/quantiseq_GSE35640.csv")
GSE61992 <- read_csv("Deconvolution_analysis/Quantiseq_analyses/quantiseq_GSE61992.csv")</pre>
```

2.2 Metadata harmonizada

Para poder estudiar si podemos comparar

- Cohorte GSE22155 y plataforma GPL6947:
- Cohorte GSE22155 y plataforma GPL6102:
- Cohorte GSE35640:
- Cohorte GSE61992:
- Cohorte GSE91061:
- Cohorte TCGA-SKCM:

3 Heatmaps

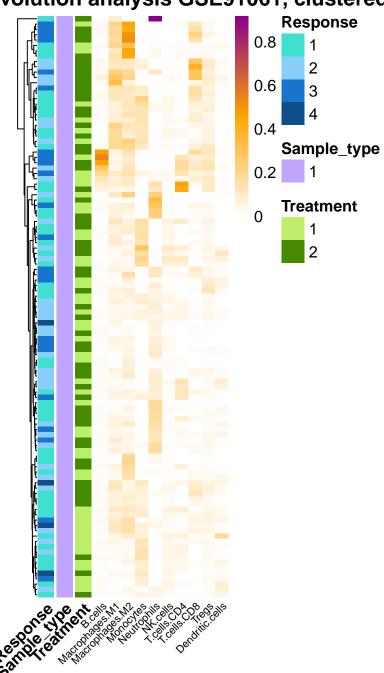
• Packages:

3.1 GSE91061

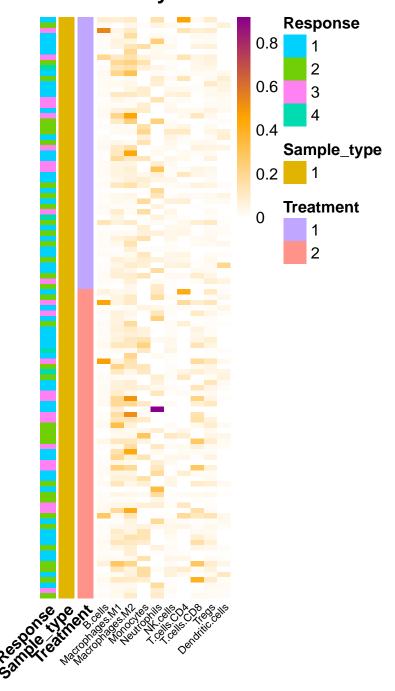
```
## [1] TRUE
```

[1] 0

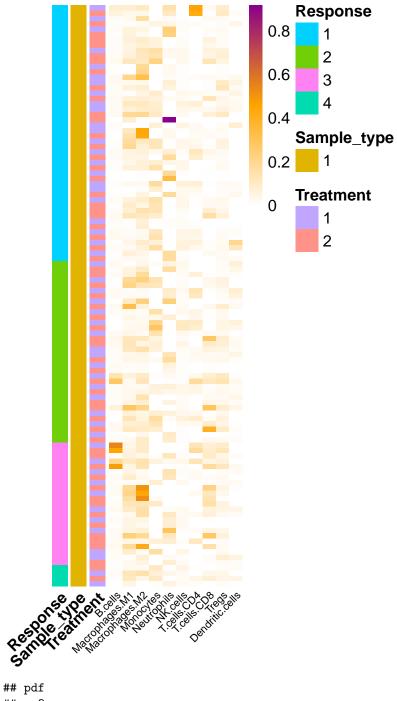
Deconvolution analysis GSE91061, clustered



Deconvolution analysis GSE91061 Ordered by treatment



Deconvolution analysis GSE91061 Ordered by response



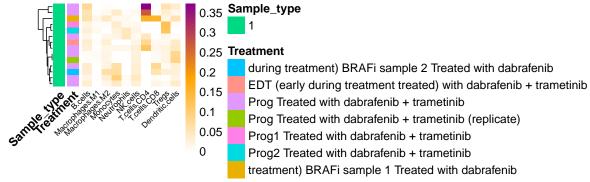
3

3.2 GSE61992

[1] TRUE

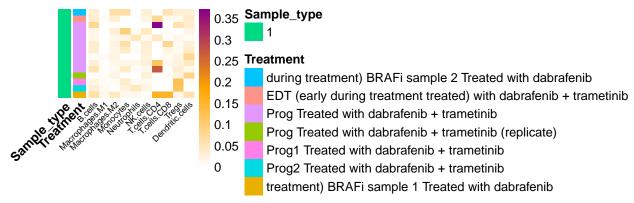
[1] 0

Deconvolution analysis GSE61992, clustered



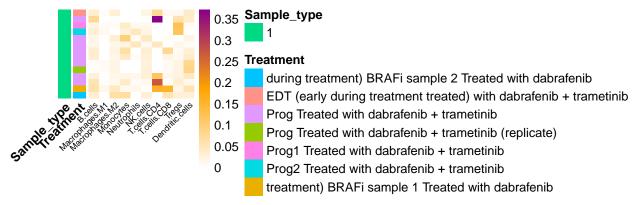
Deconvolution analysis GSE61992

Ordered by treatment



Deconvolution analysis GSE61992

Ordered by response

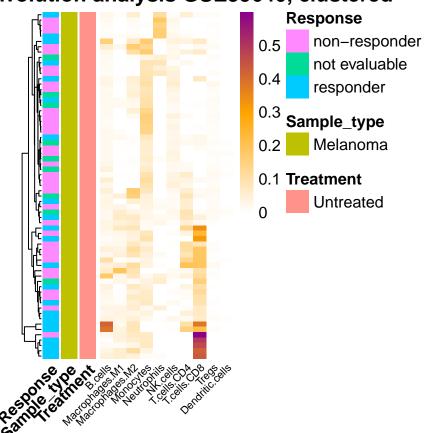


3.3 GSE35640

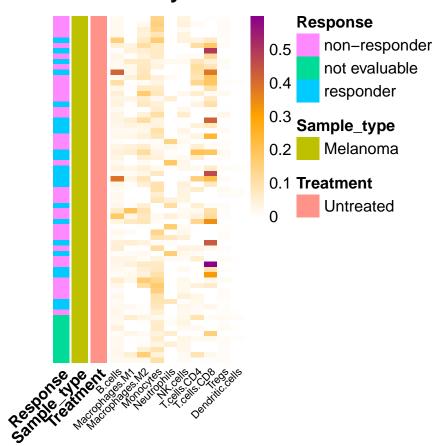
[1] TRUE

[1] 0

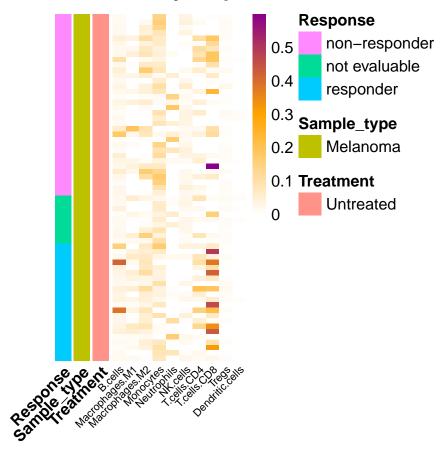
Deconvolution analysis GSE35640, clustered



Deconvolution analysis GSE35640 Ordered by treatment

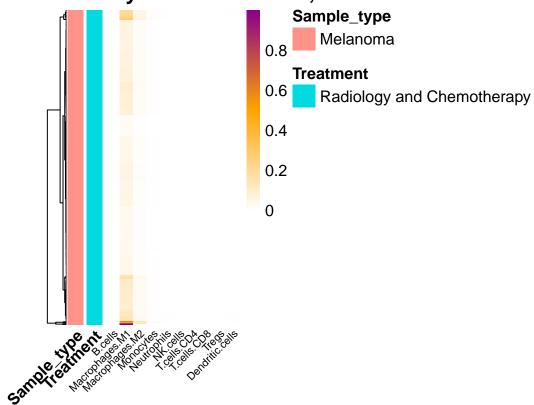


Deconvolution analysis GSE35640 Ordered by response

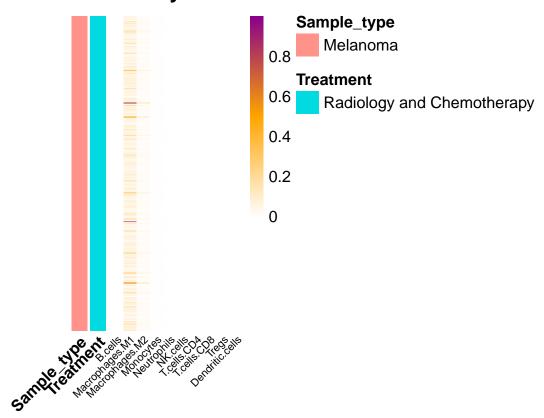


- 3.4 tcga_skcm
- ## [1] TRUE
- ## [1] 0
- ## [1] 0

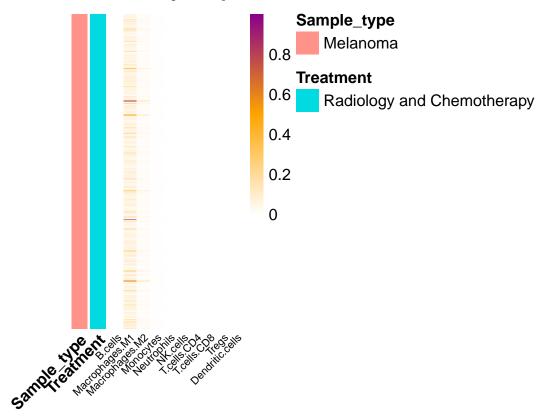
Deconvolution analysis TCGA-SKCM, clustered



Deconvolution analysis TCGA-SKCM Ordered by treatment



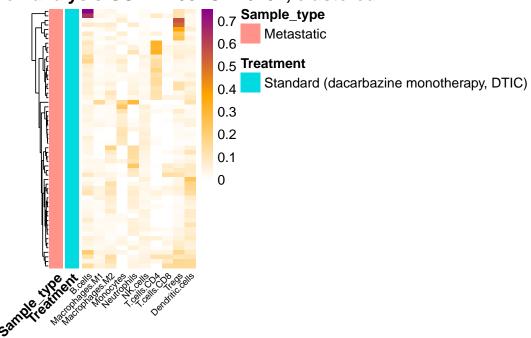
Deconvolution analysis TCGA-SKCM Ordered by response



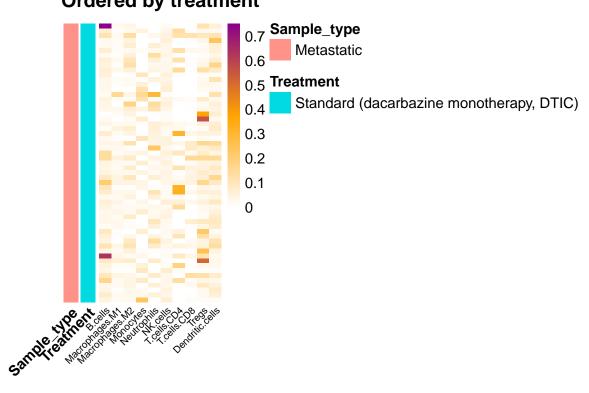
3.5 GSE22155-GPL6102

- ## [1] TRUE
- **##** [1] 0
- ## [1] 0

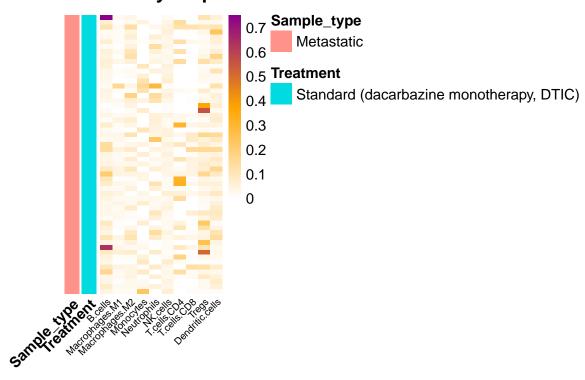
Deconvolution analysis GSE22155-GPL6102, clustered



Deconvolution analysis GSE22155-GPL6102 Ordered by treatment



Deconvolution analysis GSE22155-GPL6102 Ordered by response



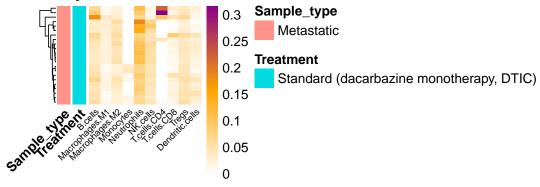
3.6 GSE22155-GPL6947

[1] TRUE

[1] 0

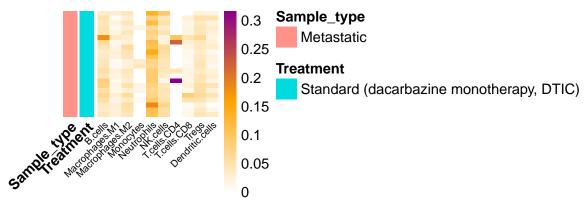
[1] 0

Deconvolution analysis GSE22155-GPL6947, clustered

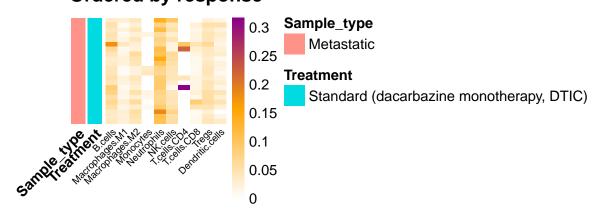


Deconvolution analysis GSE22155-GPL6947

Ordered by treatment



Deconvolution analysis GSE22155-GPL6947 Ordered by response

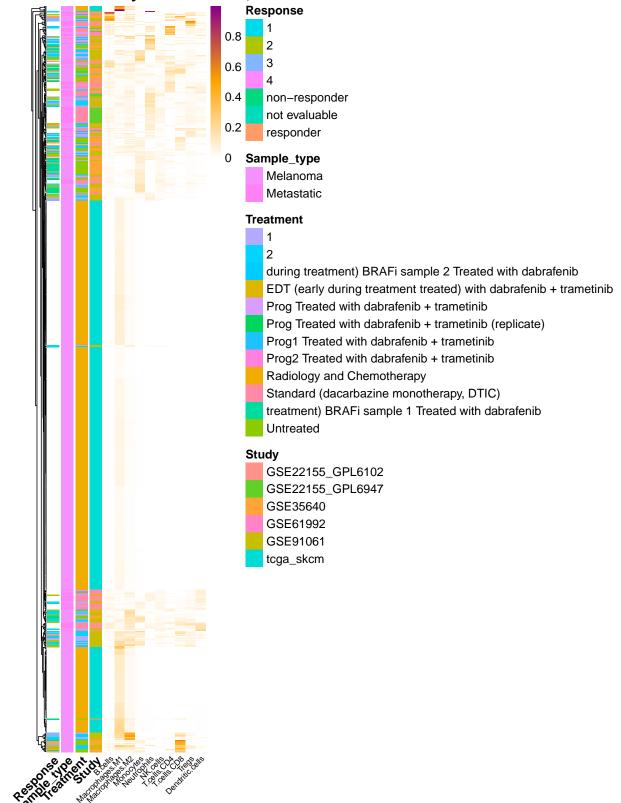


3.7 All

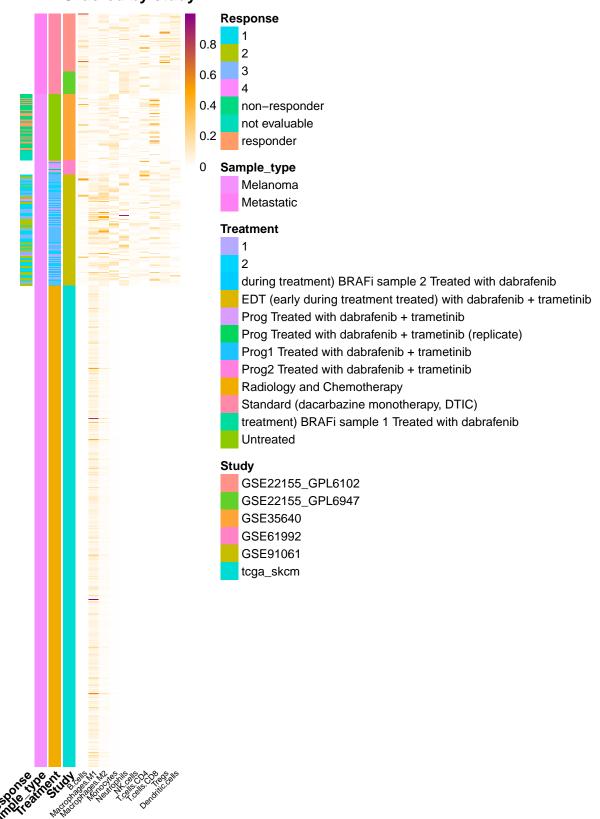
[1] TRUE

[1] 0

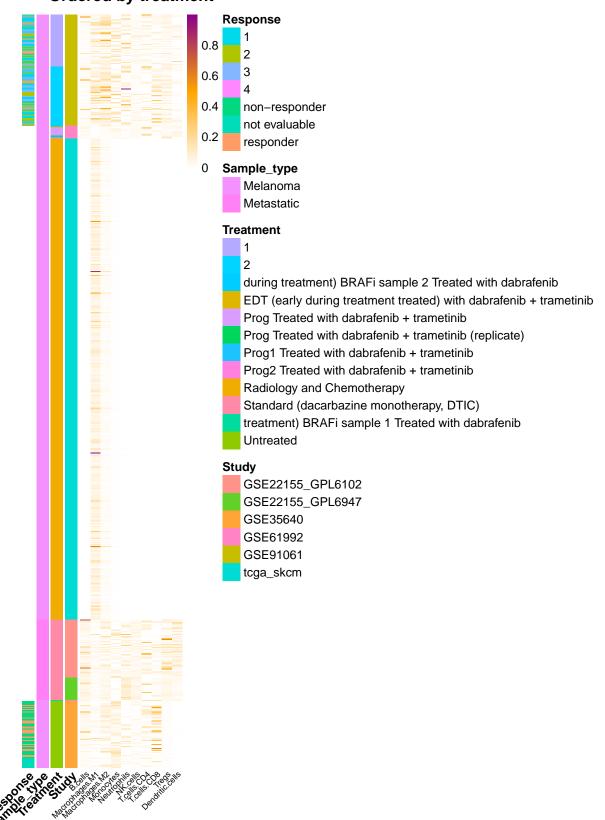
Deconvolution analysis all studies, clustered



Deconvolution analysis all studies Ordered by study



Deconvolution analysis all studies Ordered by treatment



Deconvolution analysis all studies Ordered by response

