### 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:

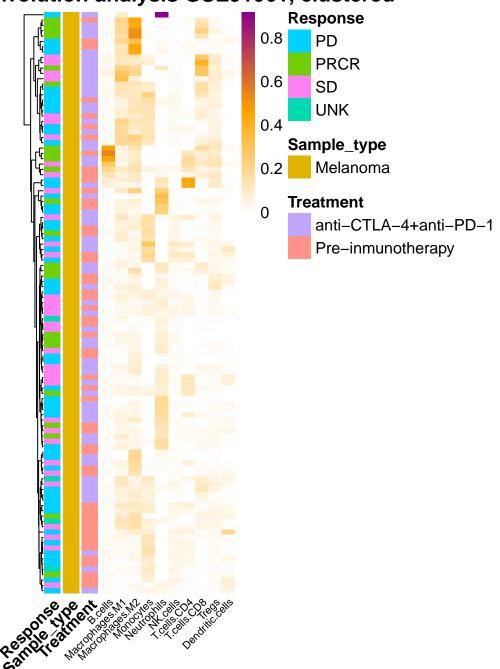
#### 3.1 GSE91061

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

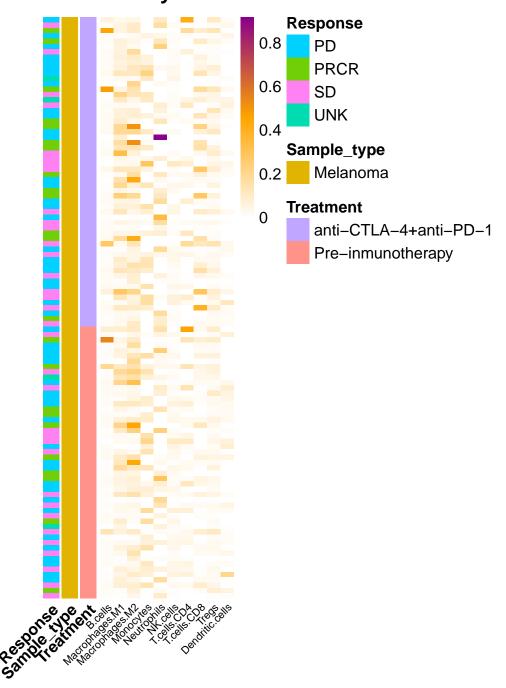
## [1] 0

**##** [1] 0

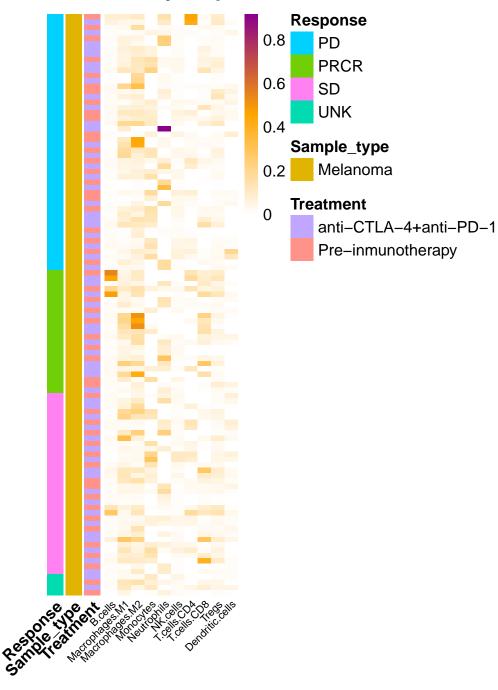
### Deconvolution analysis GSE91061, clustered



# Deconvolution analysis GSE91061 Ordered by treatment



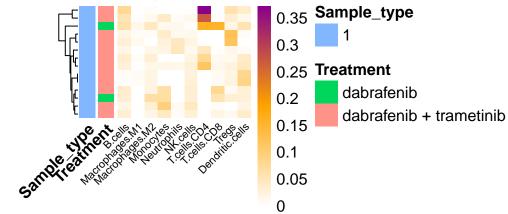
# Deconvolution analysis GSE91061 Ordered by response



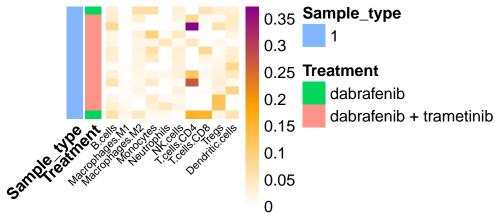
### 3.2 GSE61992

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

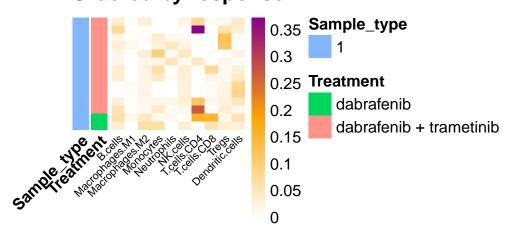
### Deconvolution analysis GSE61992, clustered



## Deconvolution analysis GSE61992 Ordered by treatment



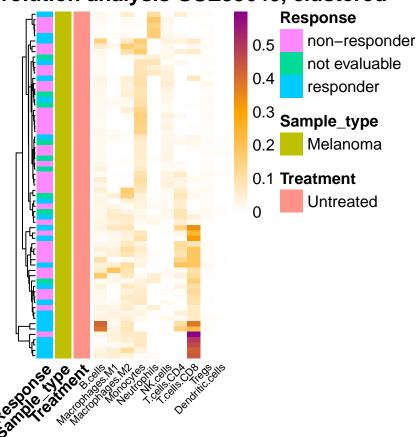
### Deconvolution analysis GSE61992 Ordered by response



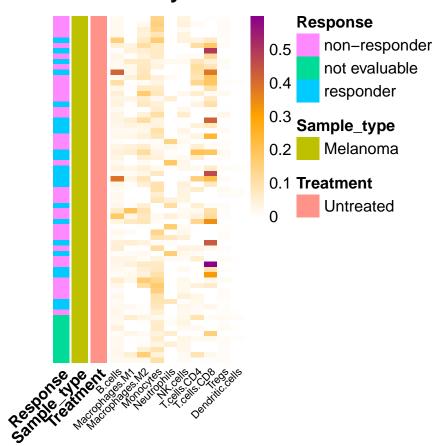
#### 3.3 GSE35640

## [1] TRUE

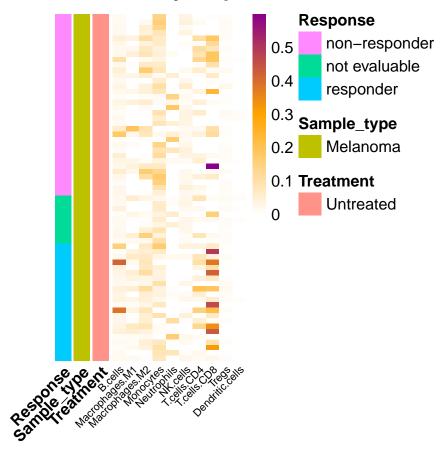
### Deconvolution analysis GSE35640, clustered



# Deconvolution analysis GSE35640 Ordered by treatment

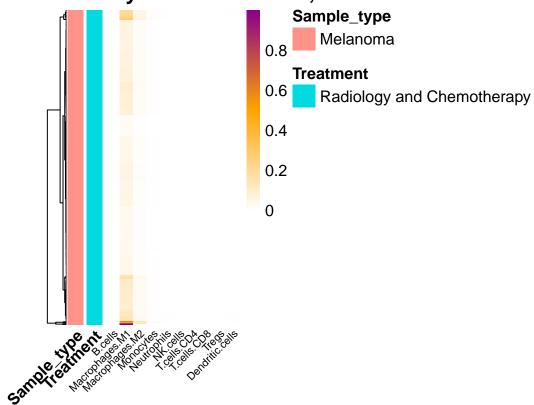


# Deconvolution analysis GSE35640 Ordered by response

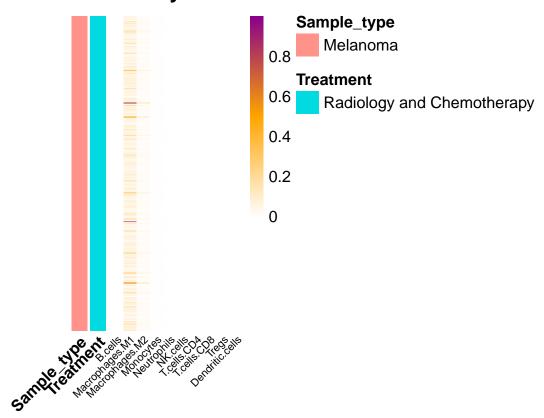


- 3.4 tcga\_skcm
- ## [1] TRUE
- ## [1] 0
- ## [1] 0

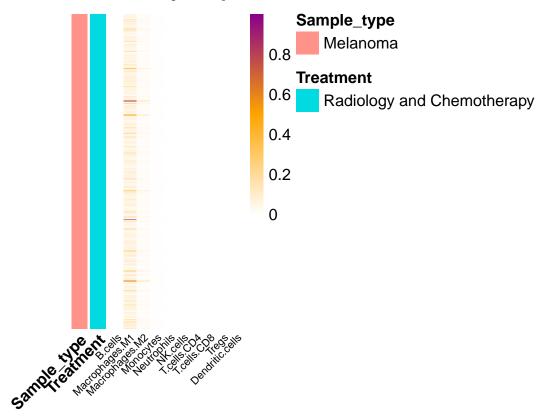
### Deconvolution analysis TCGA-SKCM, clustered



# Deconvolution analysis TCGA-SKCM Ordered by treatment



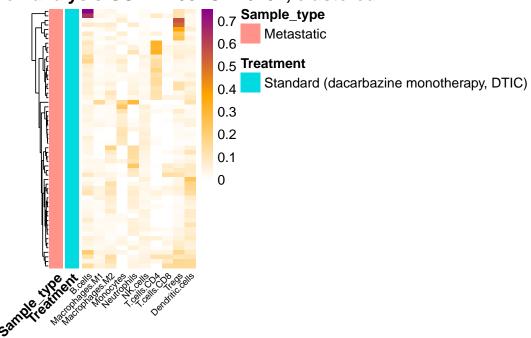
# Deconvolution analysis TCGA-SKCM Ordered by response



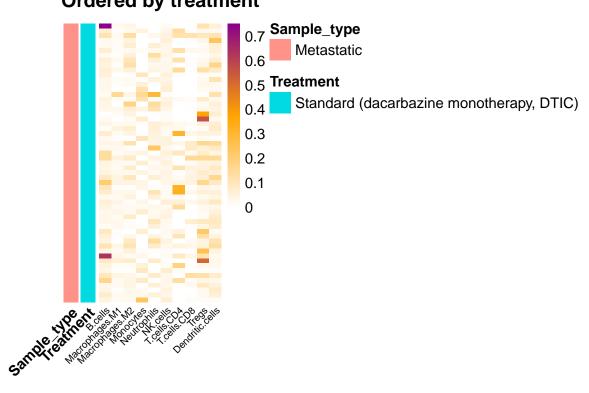
#### 3.5 GSE22155-GPL6102

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

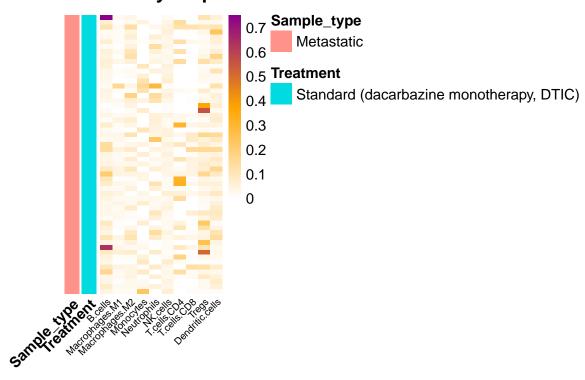
### Deconvolution analysis GSE22155-GPL6102, clustered



## Deconvolution analysis GSE22155-GPL6102 Ordered by treatment



## Deconvolution analysis GSE22155-GPL6102 Ordered by response



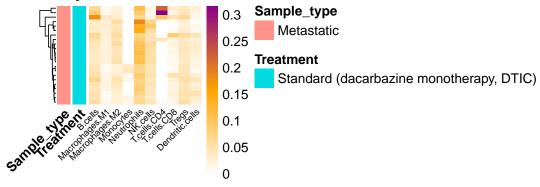
#### 3.6 GSE22155-GPL6947

## [1] TRUE

## [1] 0

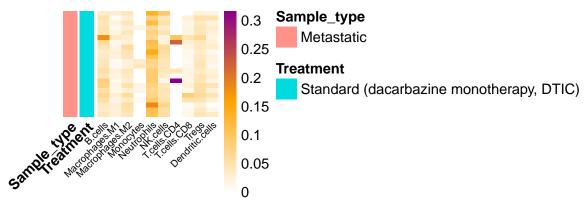
## [1] 0

### Deconvolution analysis GSE22155-GPL6947, clustered

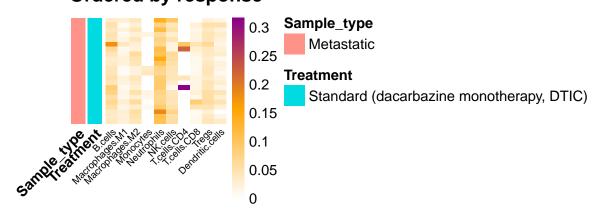


### Deconvolution analysis GSE22155-GPL6947

### **Ordered by treatment**



## Deconvolution analysis GSE22155-GPL6947 Ordered by response



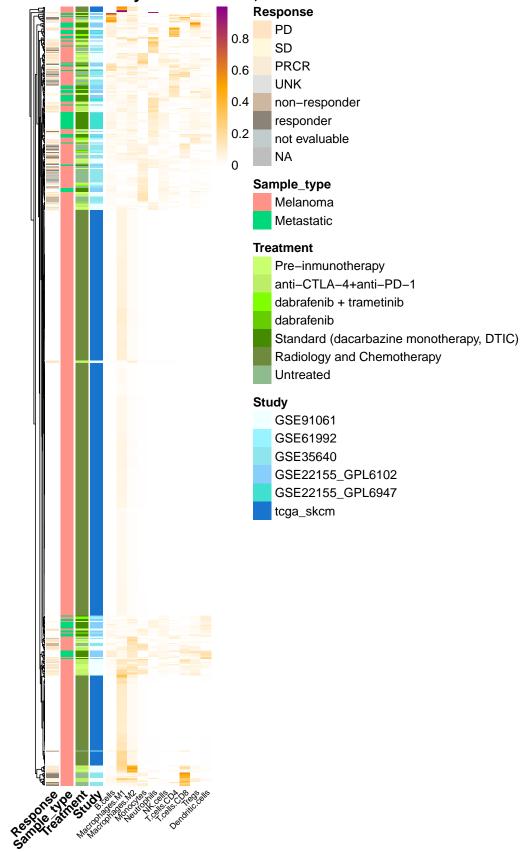
#### 3.7 All

## [1] TRUE

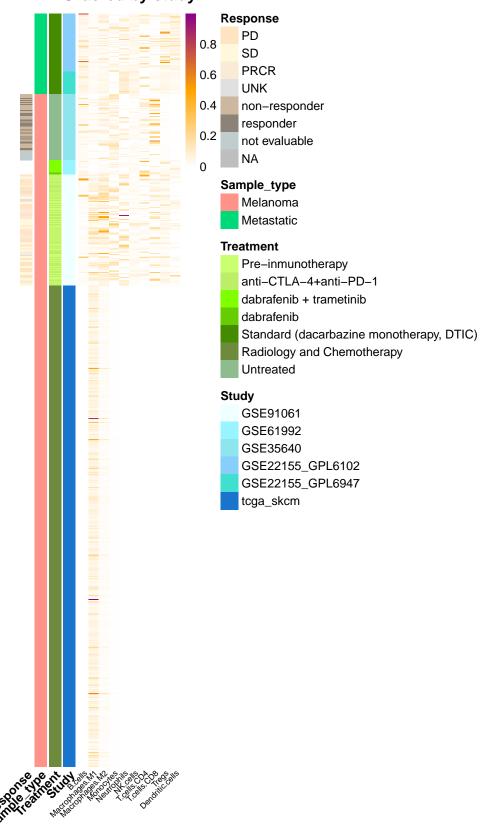
## [1] 0

## [1] 0

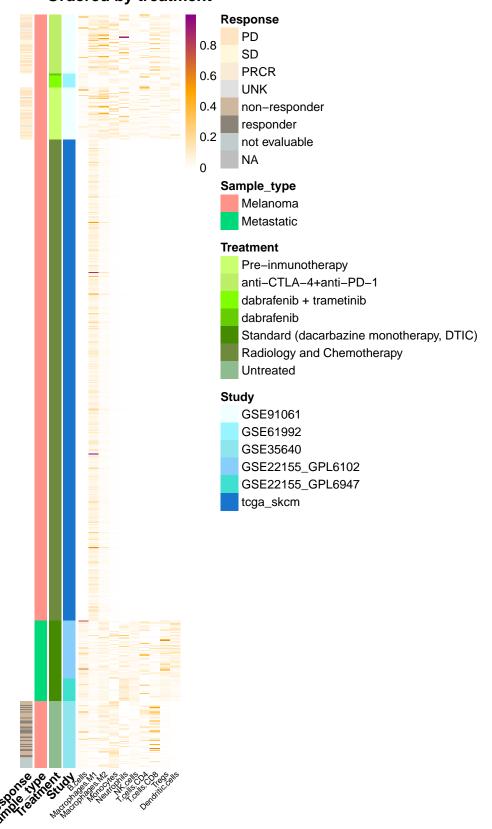
### Deconvolution analysis all studies, clustered



### Deconvolution analysis all studies Ordered by study



### Deconvolution analysis all studies Ordered by treatment



### Deconvolution analysis all studies Ordered by response

