Nanostring Analysis for Dataset X v3.0

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3/12/2020

Immune Cell Type Composition?

What are the expression heatmaps across genes that are suppose to indicate cell type calls

Heatmaps of Each Immune Cell Type

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## Joining, by = "Sample.Name"
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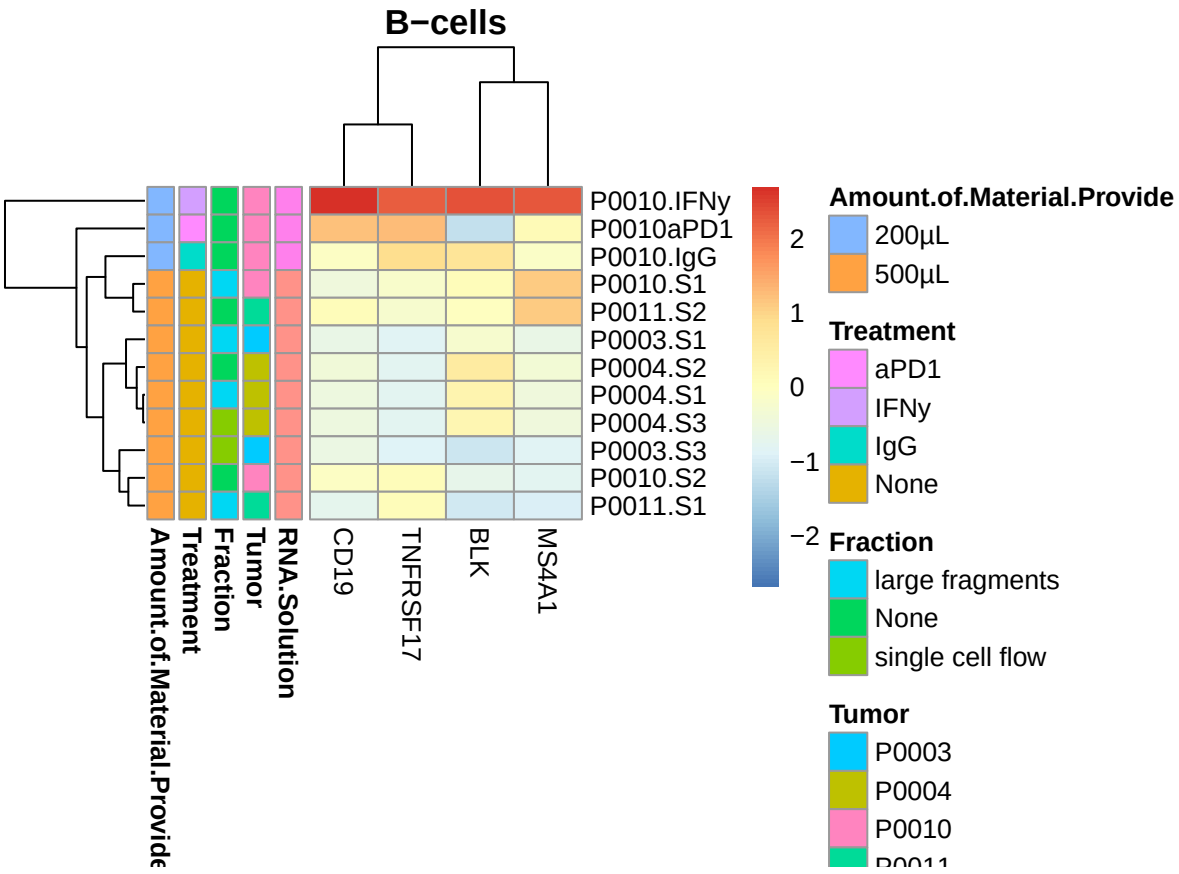
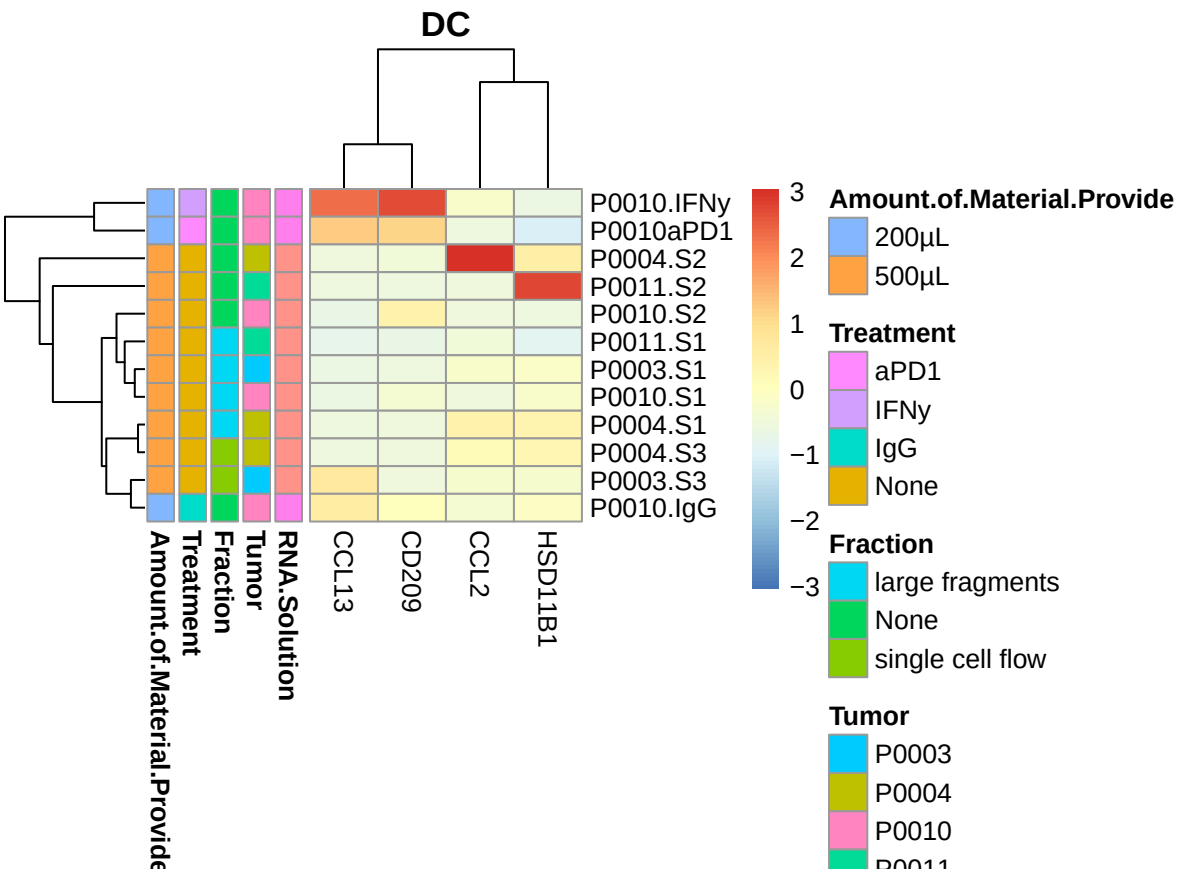
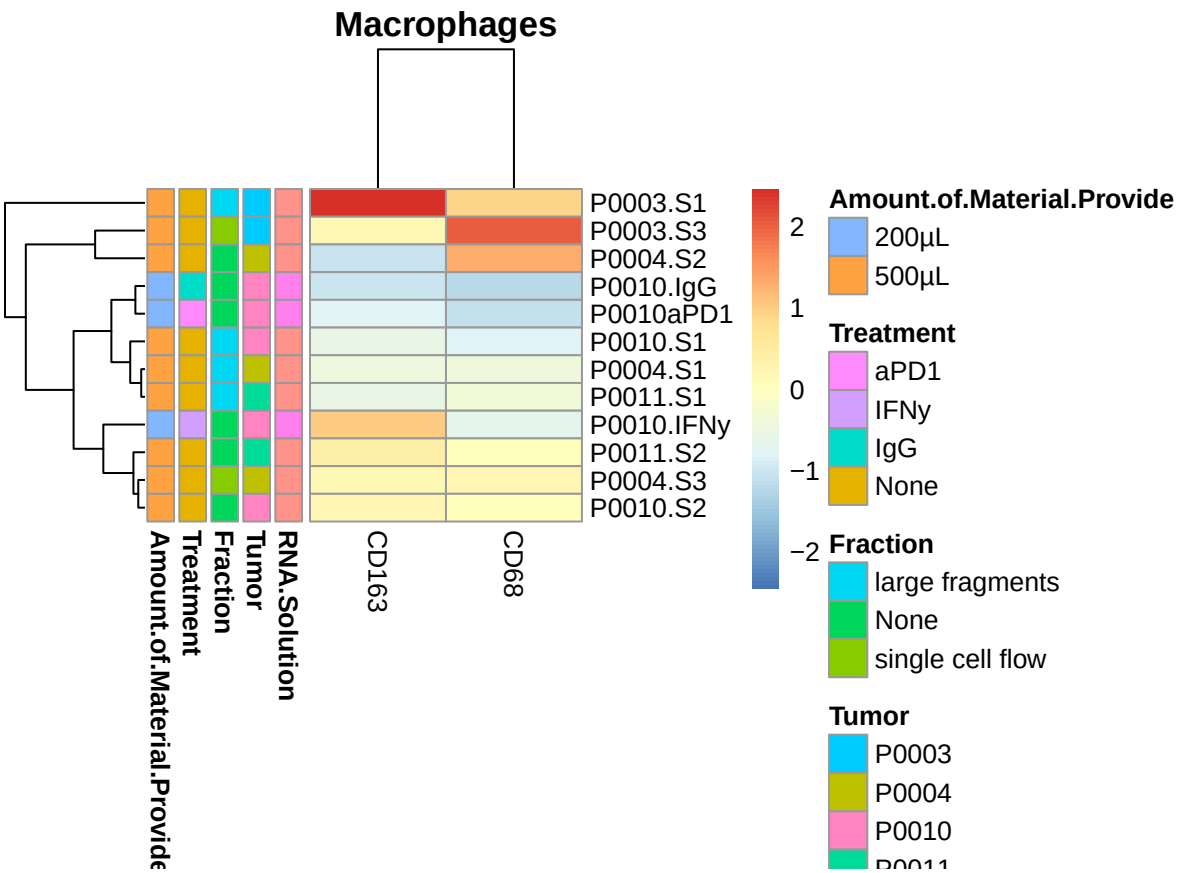
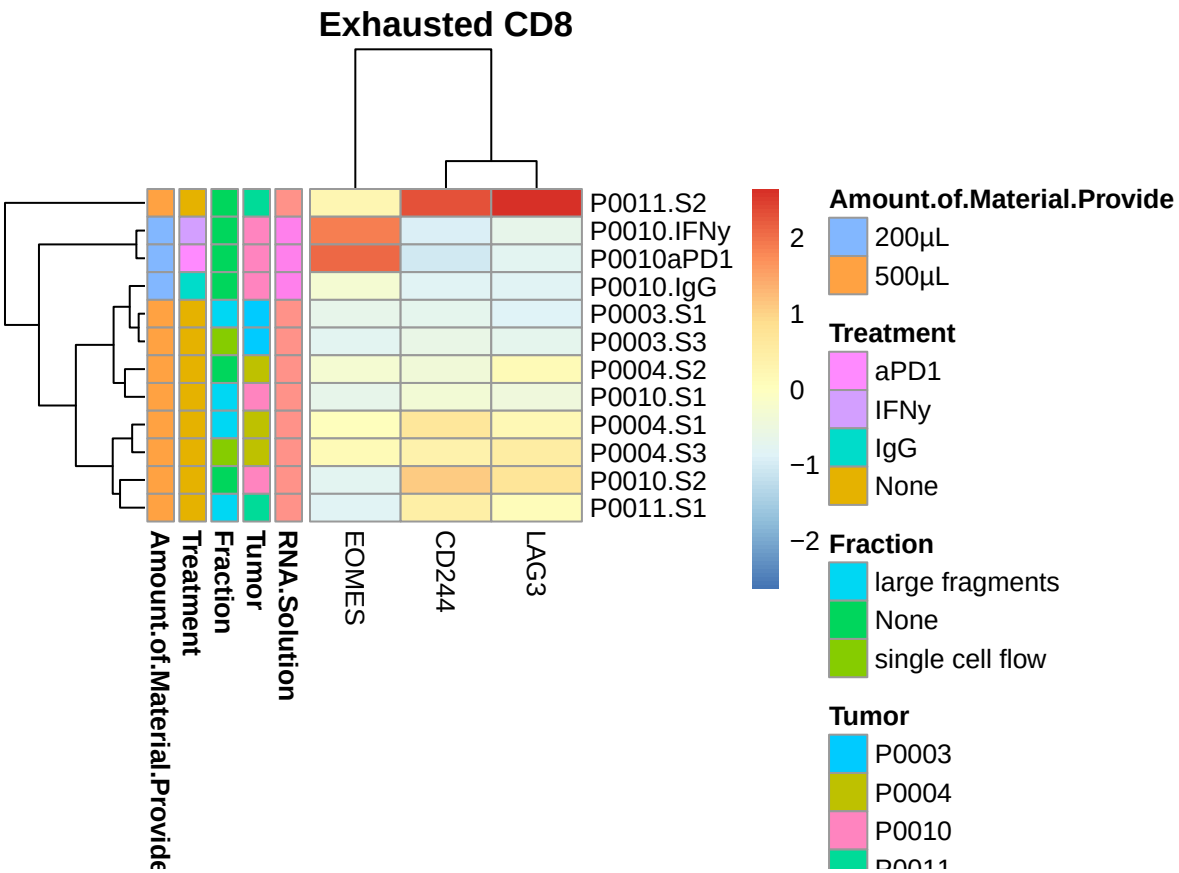
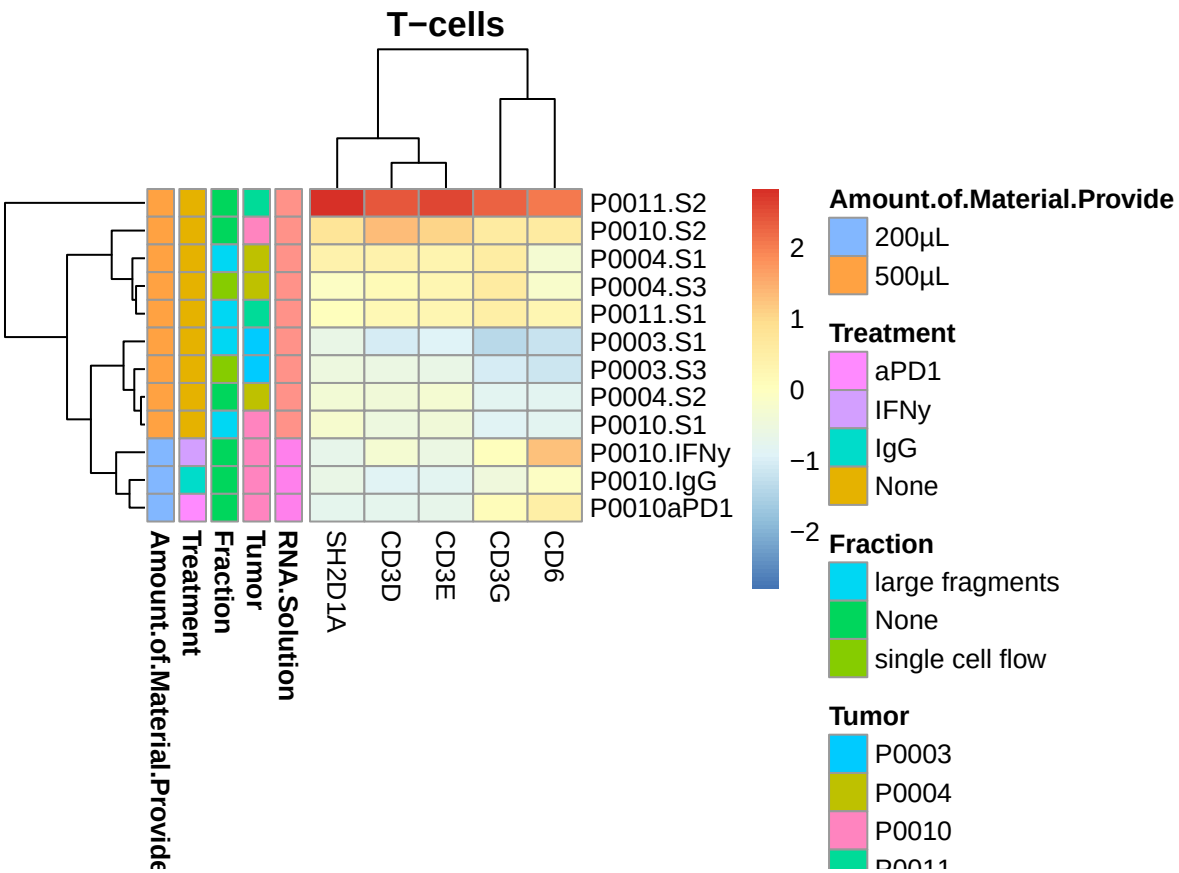
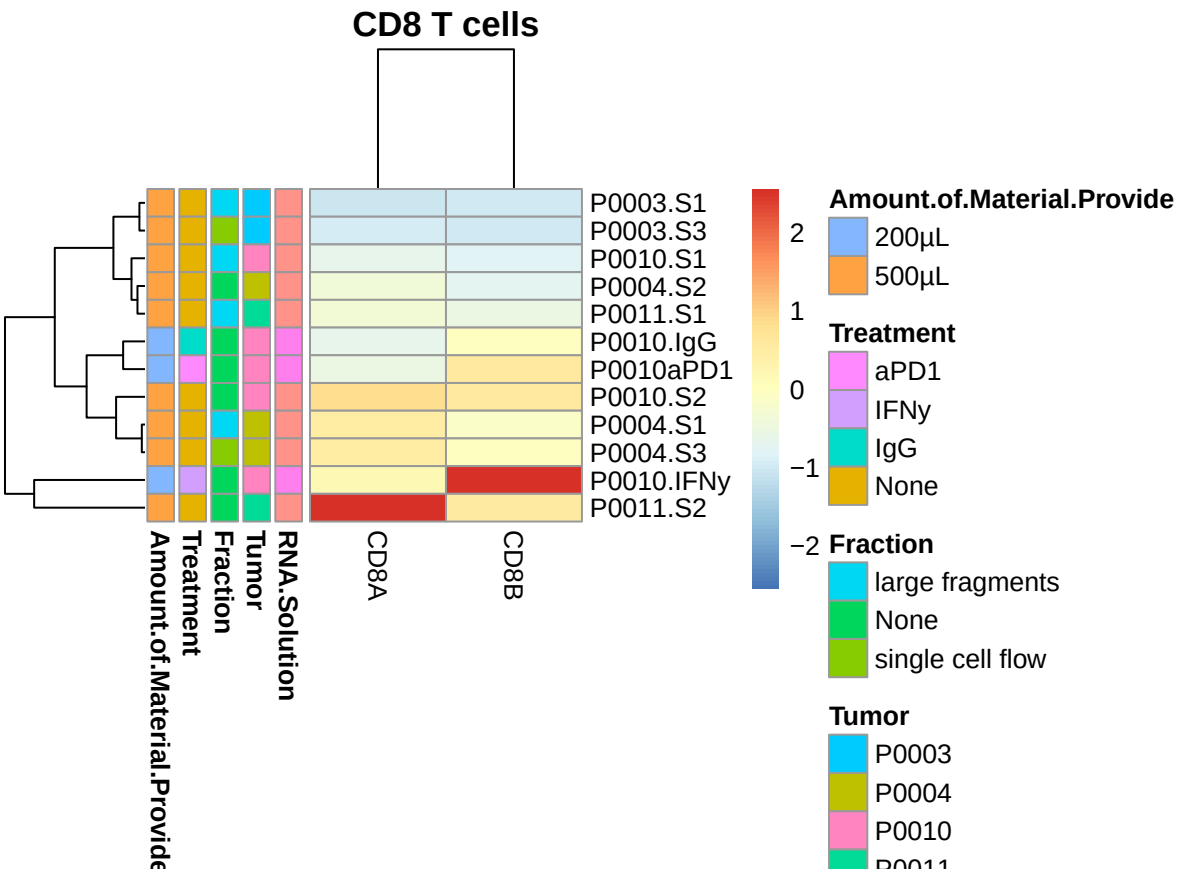


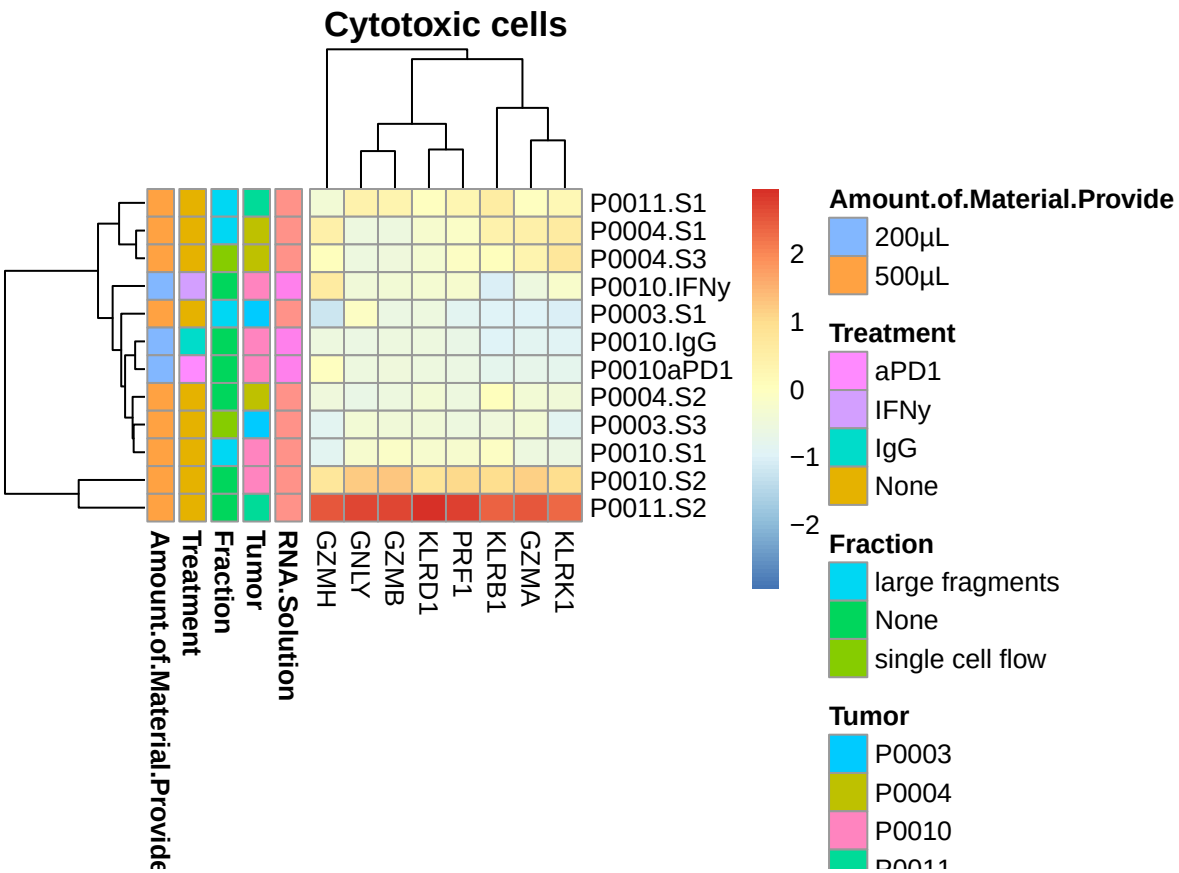

DC
P0010.IFNy
P0010aPD1
P0004.S2
P0011.S2
P0010.S2
P0011.S1
P0003.S1
P0010.S1
P0004.S1
P0004.S3
P0003.S3
P0010.IgG
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
CCL13
CD209
CCL2
HSD11B1
3
2
1
0
−1
−2
−3
Amount.of.Material.Provide
200µL
500µL
Treatment
aPD1
IFNy
IgG
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010

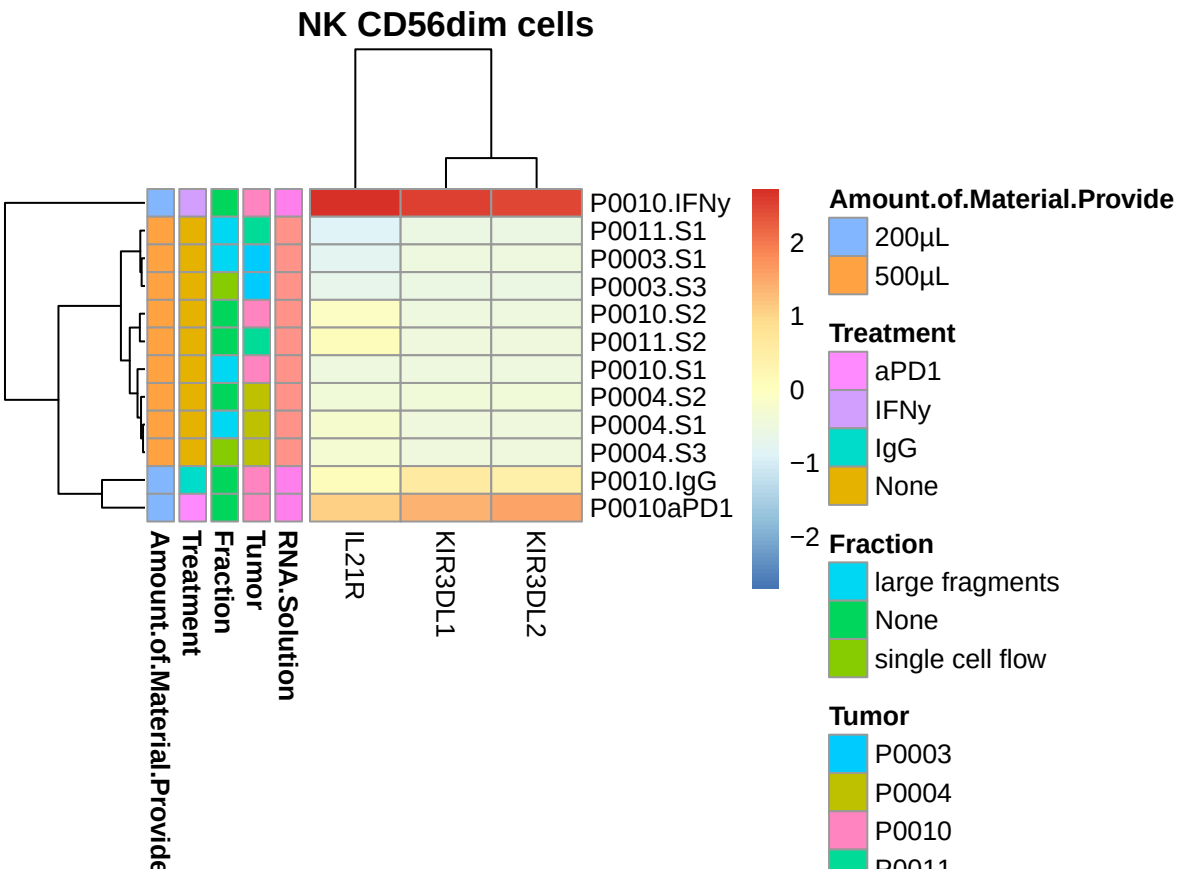

Macrophages
P0003.S1
P0003.S3
P0004.S2
P0010.IgG
P0010aPD1
P0010.S1
P0004.S1
P0011.S1
P0010.IFNy
P0011.S2
P0004.S3
P0010.S2
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
CD163
CD68
2
1
0
−1
−2
Amount.of.Material.Provide
200µL
500µL
Treatment
aPD1
IFNy
IgG
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010

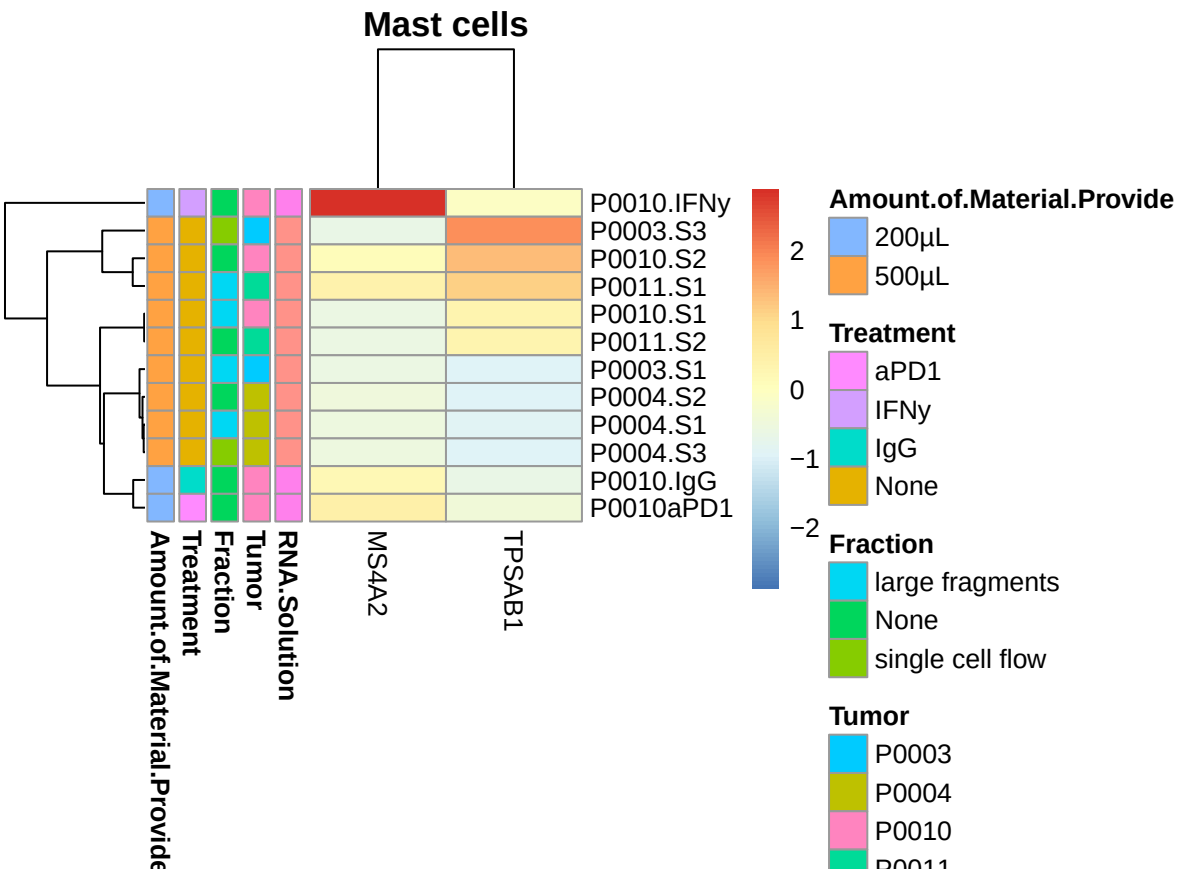

Exhausted CD8
P0011.S2
P0010.IFNy
P0010aPD1
P0010.IgG
P0003.S1
P0003.S3
P0004.S2
P0010.S1
P0004.S1
P0004.S3
P0010.S2
P0011.S1
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
EOMES
CD244
LAG3
2
1
0
−1
−2
Amount.of.Material.Provide
200µL
500µL
Treatment
aPD1
IFNy
IgG
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010


T−cells
P0011.S2
P0010.S2
P0004.S1
P0004.S3
P0011.S1
P0003.S1
P0003.S3
P0004.S2
P0010.S1
P0010.IFNy
P0010.IgG
P0010aPD1
SH2D1A
CD3D
CD3E
CD3G
CD6
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
2
1
0
−1
−2
Amount.of.Material.Provide
200µL
500µL
Treatment
aPD1
IFNy
IgG
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010


CD8 T cells
P0003.S1
P0003.S3
P0010.S1
P0004.S2
P0011.S1
P0010.IgG
P0010aPD1
P0010.S2
P0004.S1
P0004.S3
P0010.IFNy
P0011.S2
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
CD8A
CD8B
2
1
0
−1
−2
Amount.of.Material.Provide
200µL
500µL
Treatment
aPD1
IFNy
IgG
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010
P0011


Cytotoxic cells
P0011.S1
P0004.S1
P0004.S3
P0010.IFNy
P0003.S1
P0010.IgG
P0010aPD1
P0004.S2
P0003.S3
P0010.S1
P0010.S2
P0011.S2
GZMH
GNLY
GZMB
KLRD1
PRF1
KLRB1
GZMA
KLRK1
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
2
1
0
−1
−2
Amount.of.Material.Provide
200µL
500µL
Treatment
aPD1
IFNy
IgG
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010


NK CD56dim cells
P0010.IFNy
P0011.S1
P0003.S1
P0003.S3
P0010.S2
P0011.S2
P0010.S1
P0004.S2
P0004.S1
P0004.S3
P0010.IgG
P0010aPD1
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
IL21R
KIR3DL1
KIR3DL2
2
1
0
−1
−2
Amount.of.Material.Provide
200µL
500µL
Treatment
aPD1
IFNy
IgG
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010



Excluding Samples with Treatment

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## Joining, by = "Sample.Name"
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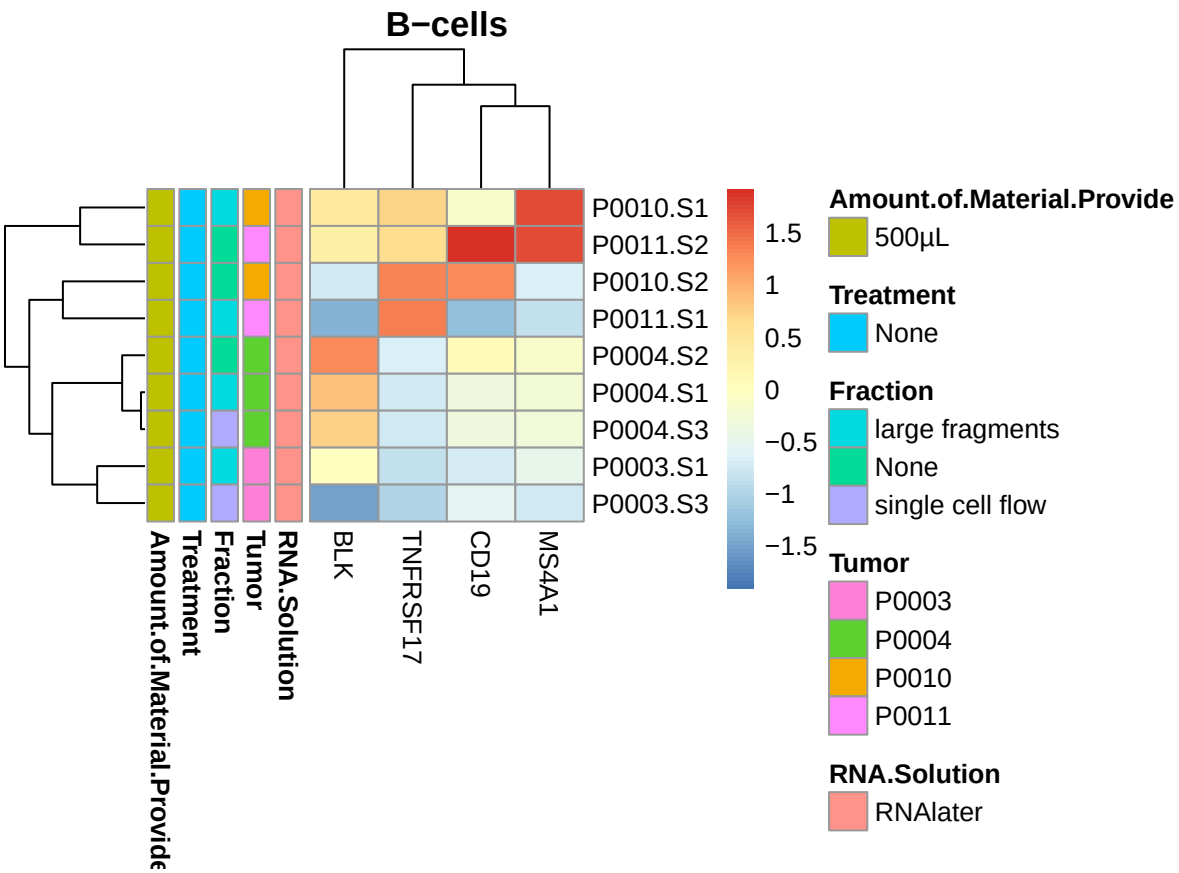
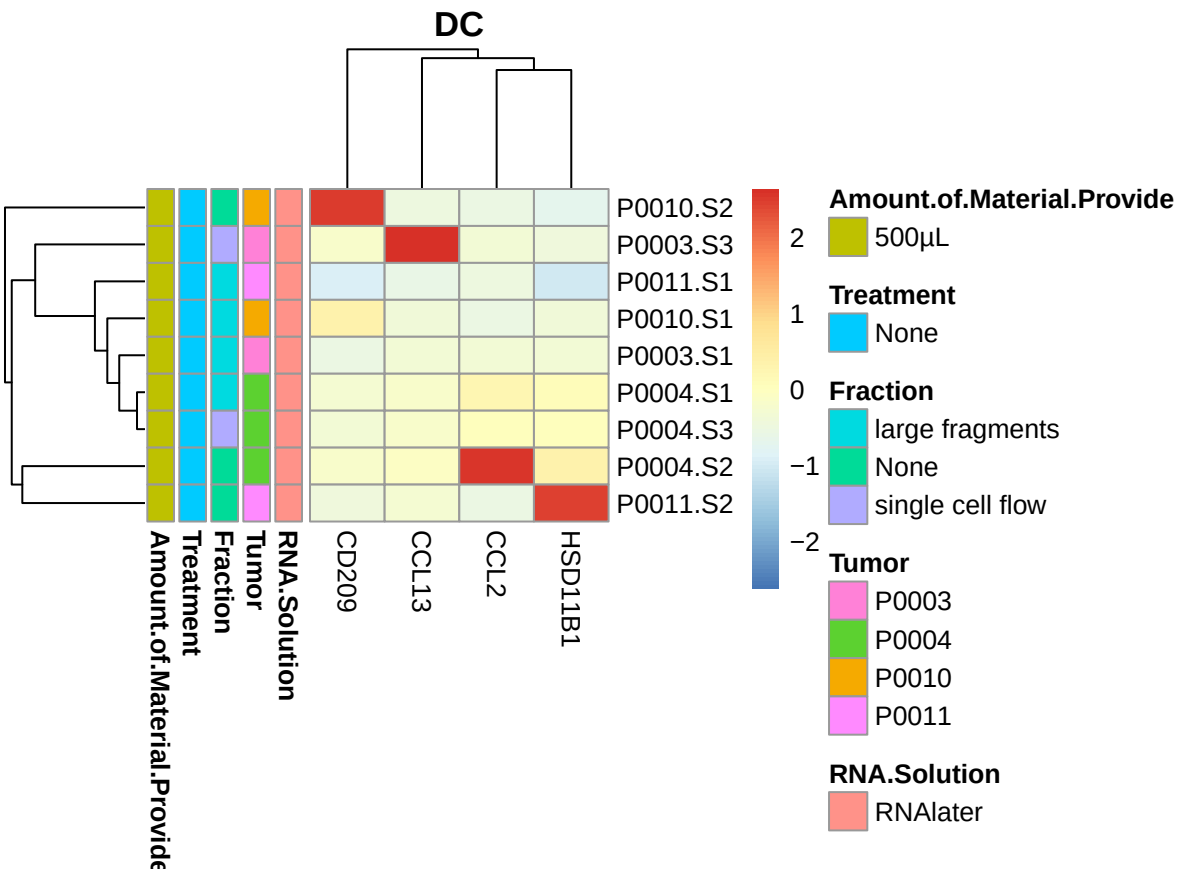
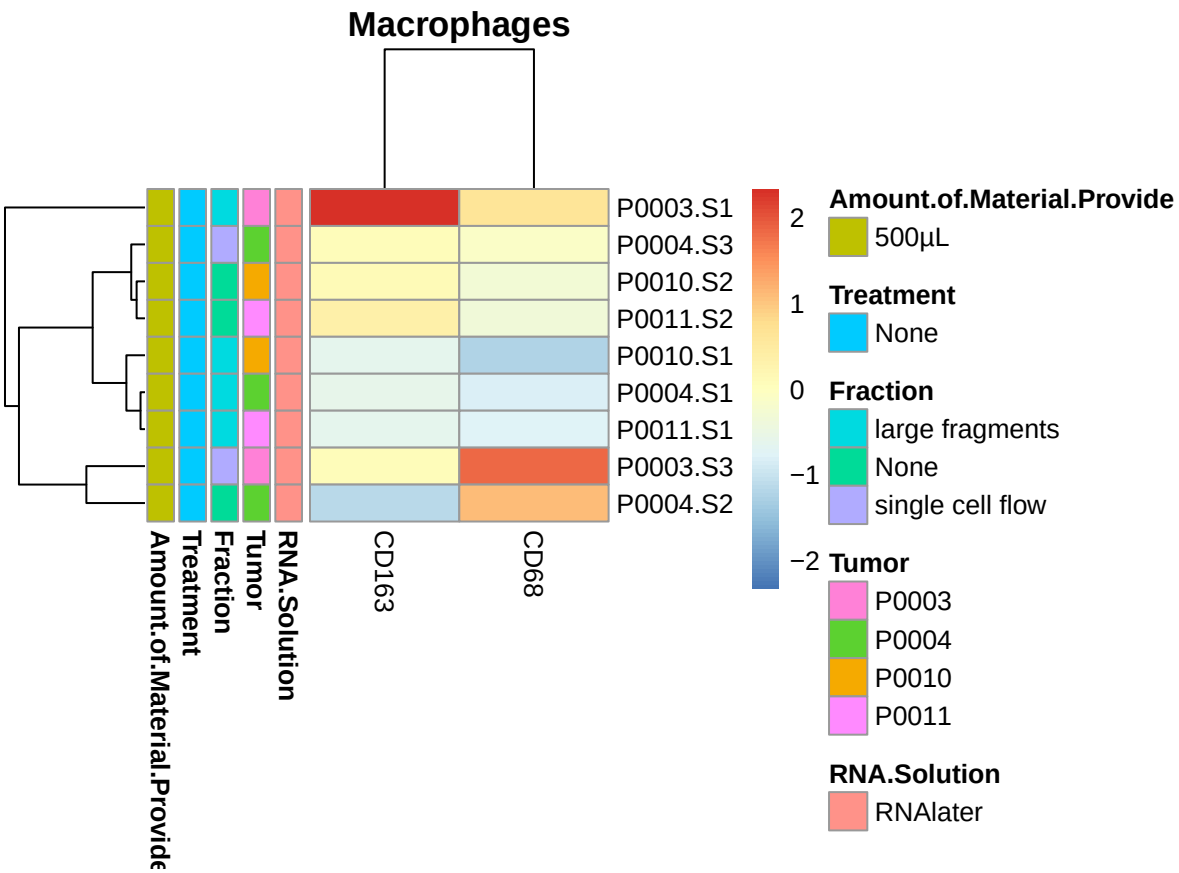
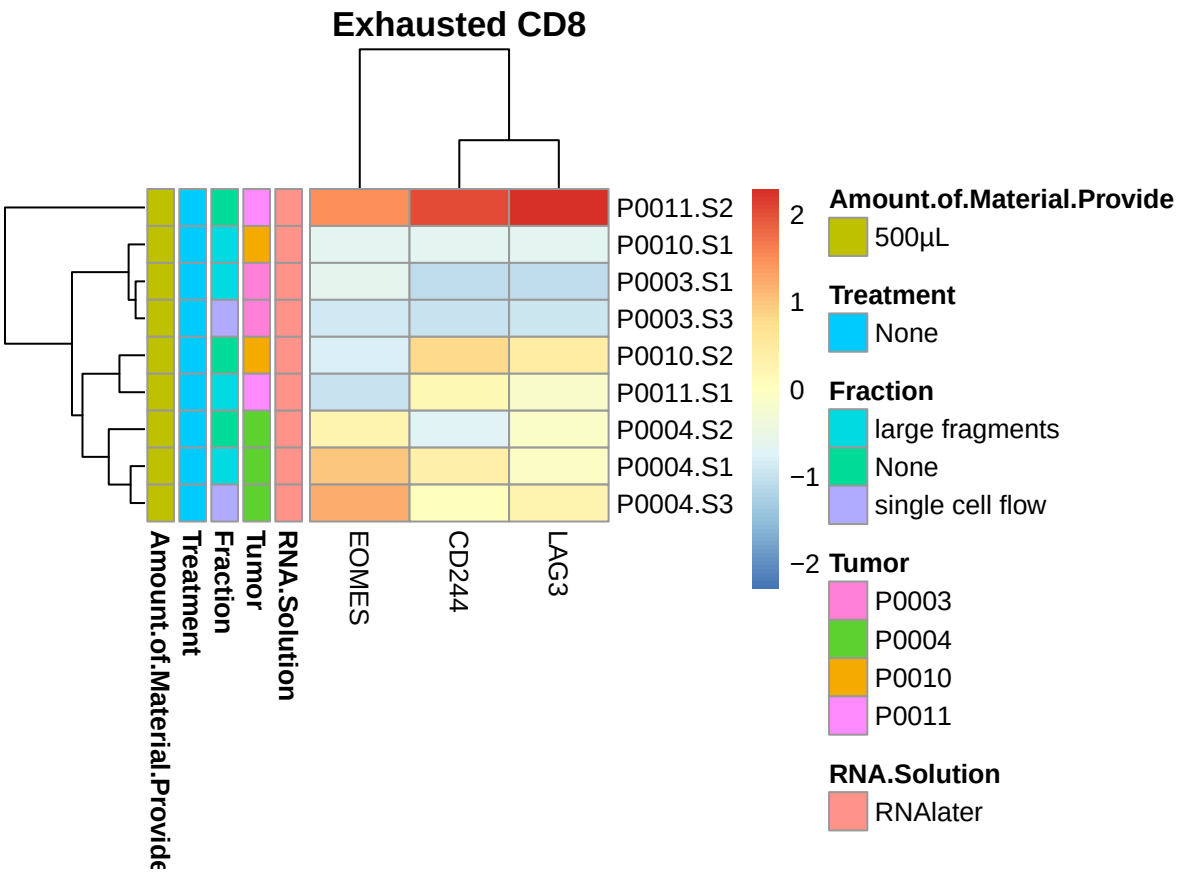
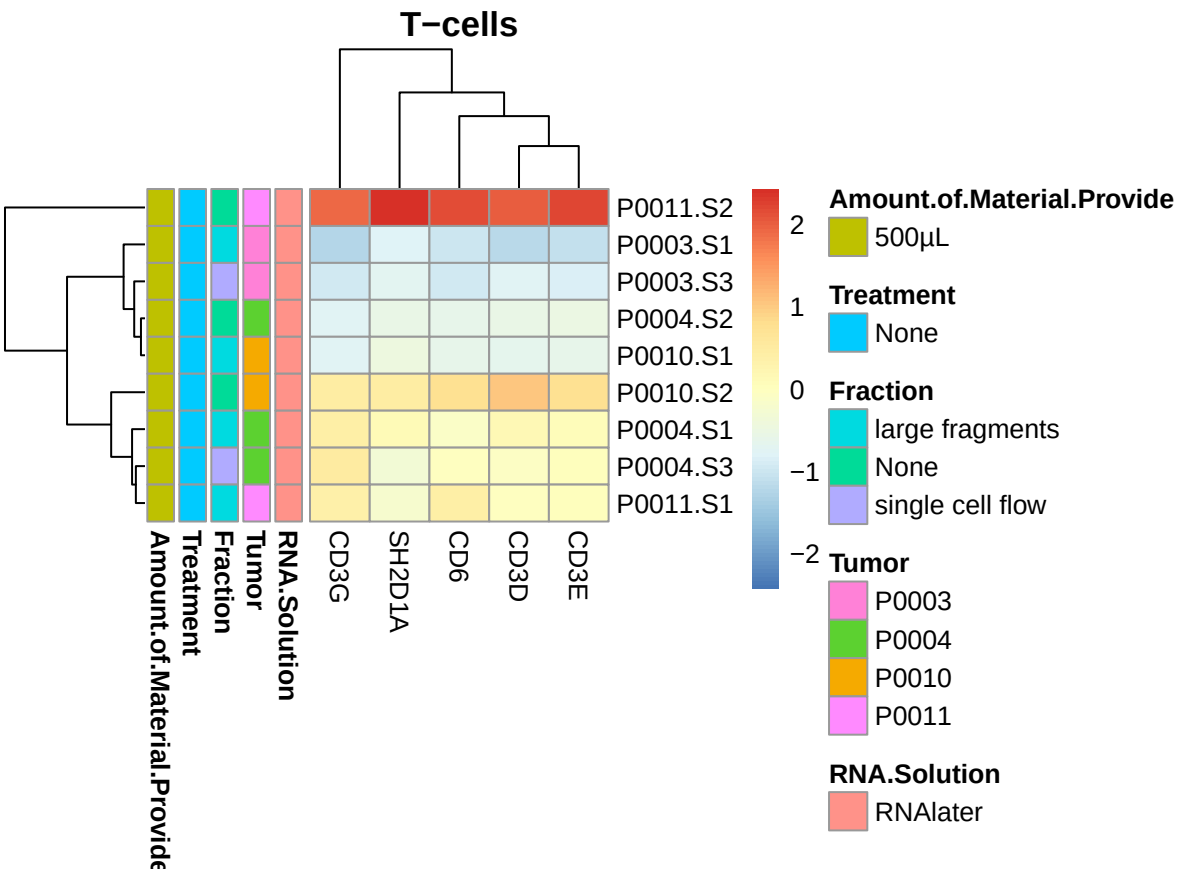
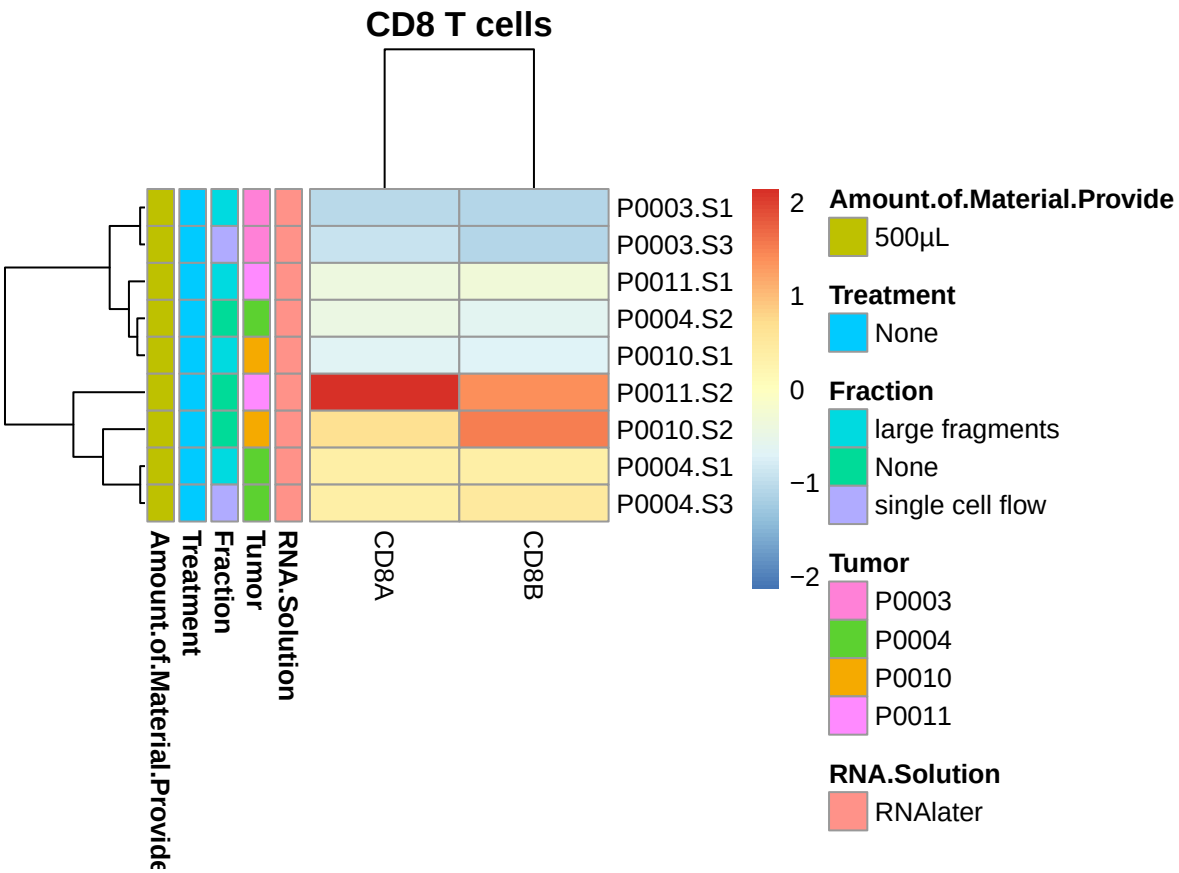

B−cells
P0010.S1
P0011.S2
P0010.S2
P0011.S1
P0004.S2
P0004.S1
P0004.S3
P0003.S1
P0003.S3
BLK
TNFRSF17
CD19
MS4A1
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
1.5
1
0.5
0
−0.5
−1
−1.5
Amount.of.Material.Provide
500µL
Treatment
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010
P0011
RNA.Solution
RNAlater

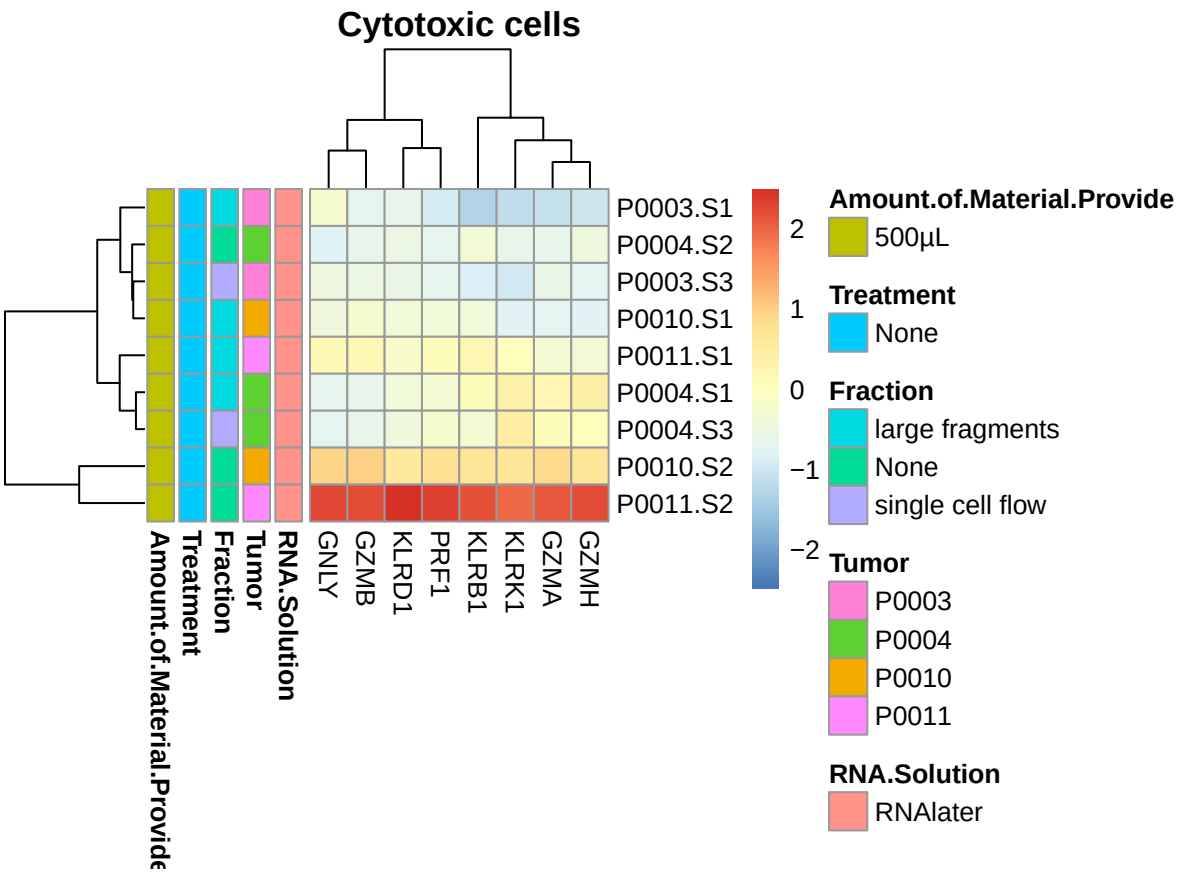

DC
P0010.S2
P0003.S3
P0011.S1
P0010.S1
P0003.S1
P0004.S1
P0004.S3
P0004.S2
P0011.S2
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
CD209
CCL13
CCL2
HSD11B1
2
1
0
−1
−2
Amount.of.Material.Provide
500µL
Treatment
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010
P0011
RNA.Solution
RNAlater

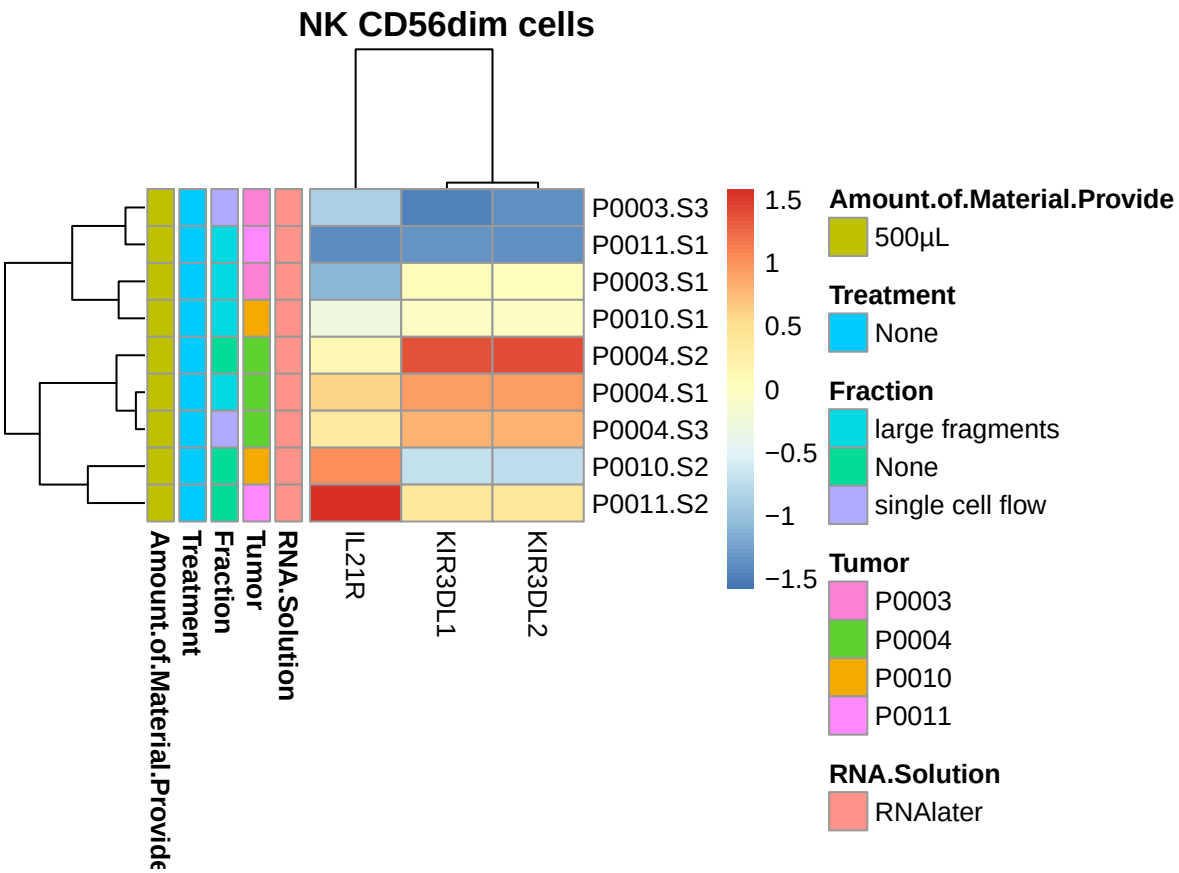

Macrophages
P0003.S1
P0004.S3
P0010.S2
P0011.S2
P0010.S1
P0004.S1
P0011.S1
P0003.S3
P0004.S2
CD163
CD68
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
2
1
0
−1
−2
Amount.of.Material.Provide
500µL
Treatment
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010
P0011
RNA.Solution
RNAlater

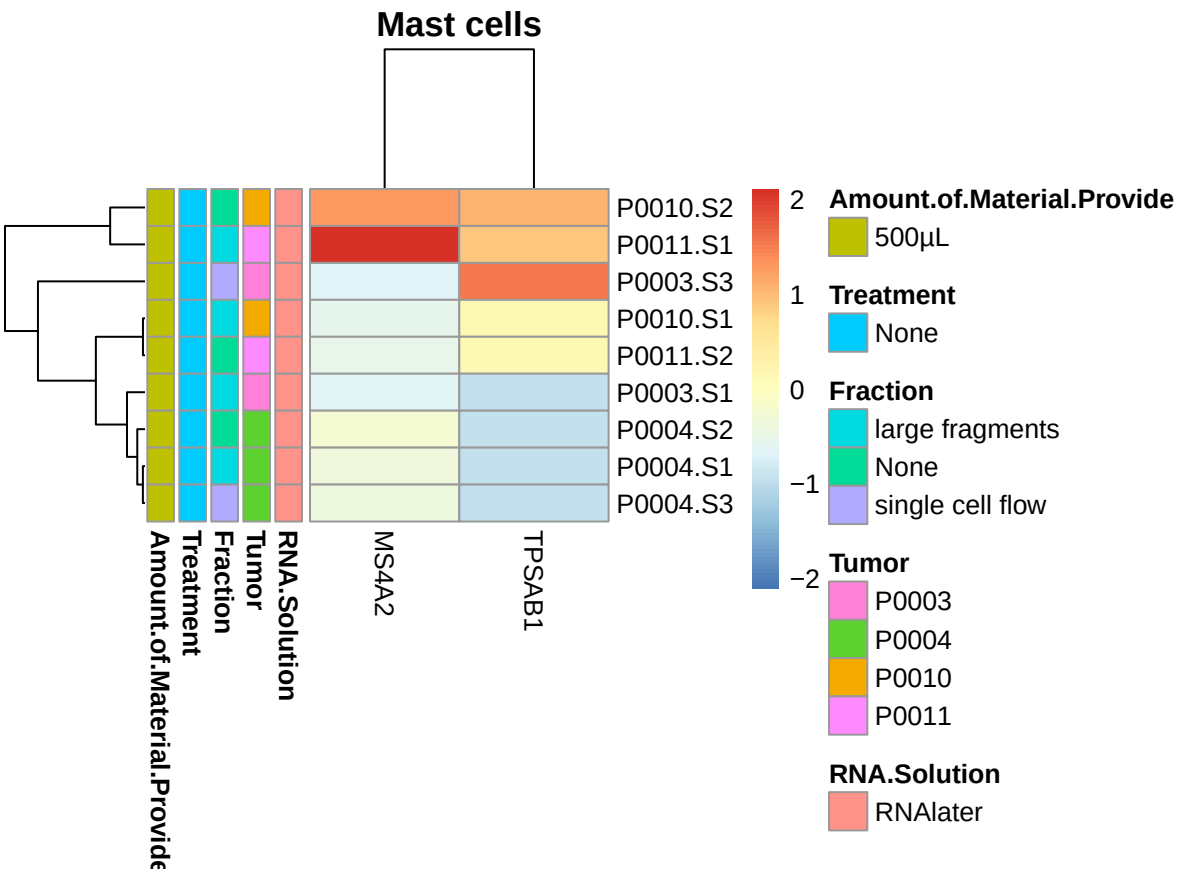

Exhausted CD8
P0011.S2
P0010.S1
P0003.S1
P0003.S3
P0010.S2
P0011.S1
P0004.S2
P0004.S1
P0004.S3
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
EOMES
CD244
LAG3
2
1
0
−1
−2
Amount.of.Material.Provide
500µL
Treatment
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010
P0011
RNA.Solution
RNAlater


T−cells
P0011.S2
P0003.S1
P0003.S3
P0004.S2
P0010.S1
P0010.S2
P0004.S1
P0004.S3
P0011.S1
CD3G
SH2D1A
CD6
CD3D
CD3E
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
2
1
0
−1
−2
Amount.of.Material.Provide
500µL
Treatment
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010
P0011
RNA.Solution
RNAlater


CD8 T cells
P0003.S1
P0003.S3
P0011.S1
P0004.S2
P0010.S1
P0011.S2
P0010.S2
P0004.S1
P0004.S3
CD8A
CD8B
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
2
1
0
−1
−2
Amount.of.Material.Provide
500µL
Treatment
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010
P0011
RNA.Solution
RNAlater


Cytotoxic cells
P0003.S1
P0004.S2
P0003.S3
P0010.S1
P0011.S1
P0004.S1
P0004.S3
P0010.S2
P0011.S2
GNLY
GZMB
KLRD1
PRF1
KLRB1
KLRK1
GZMA
GZMH
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
2
1
0
−1
−2
Amount.of.Material.Provide
500µL
Treatment
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010
P0011
RNA.Solution
RNAlater


NK CD56dim cells
P0003.S3
P0011.S1
P0003.S1
P0010.S1
P0004.S2
P0004.S1
P0004.S3
P0010.S2
P0011.S2
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
IL21R
KIR3DL1
KIR3DL2
1.5
1
0.5
0
−0.5
−1
−1.5
Amount.of.Material.Provide
500µL
Treatment
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010
P0011
RNA.Solution
RNAlater


Mast cells
P0010.S2
P0011.S1
P0003.S3
P0010.S1
P0011.S2
P0003.S1
P0004.S2
P0004.S1
P0004.S3
MS4A2
TPSAB1
Amount.of.Material.Provide
Treatment
Fraction
Tumor
RNA.Solution
2
1
0
−1
−2
Amount.of.Material.Provide
500µL
Treatment
None
Fraction
large fragments
None
single cell flow
Tumor
P0003
P0004
P0010
P0011
RNA.Solution
RNAlater