ICGC PACA-CA clustering

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September 17, 2018

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Setup for $PACA_CA$

Load required libraries

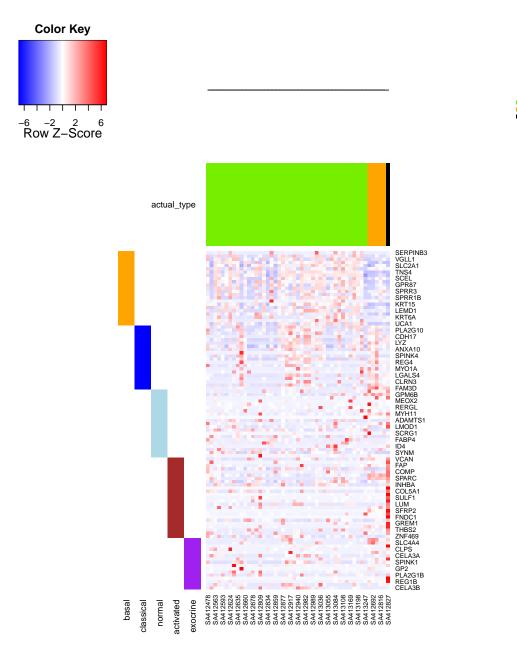
Select dataset and remove unwanted genes

Calculate signature scores and SSC

Append TSP scores to expression data frames

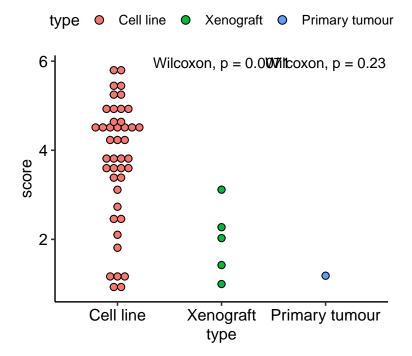
Results

Heat maps



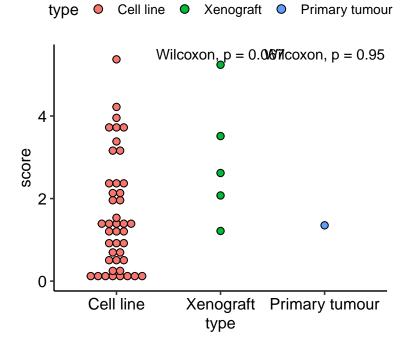
Boxplots to show gene expression in the above heatmap

Moffitt.Basal.25 score

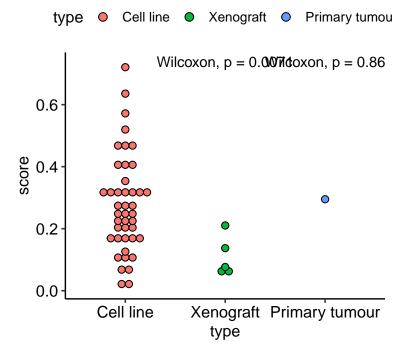


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.Classical.25 score

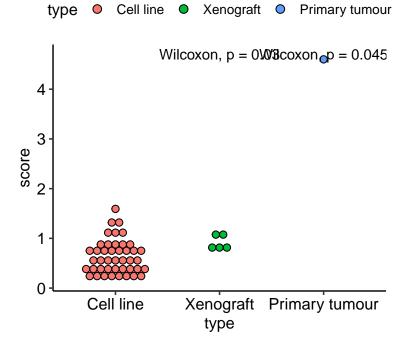


Moffitt.Normal.25 score

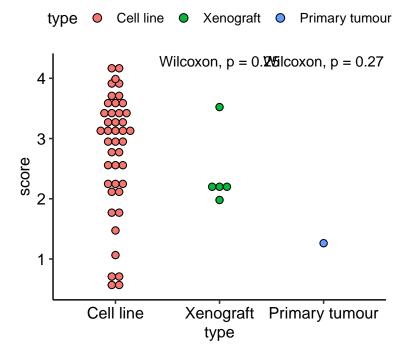


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Moffitt.Activated.25 score

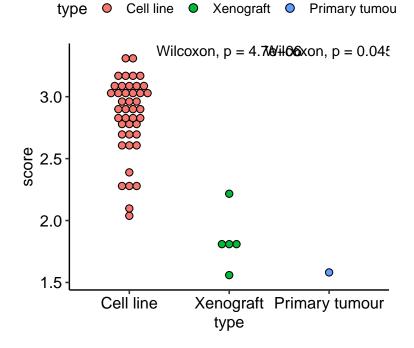


Moffitt.Tumor score

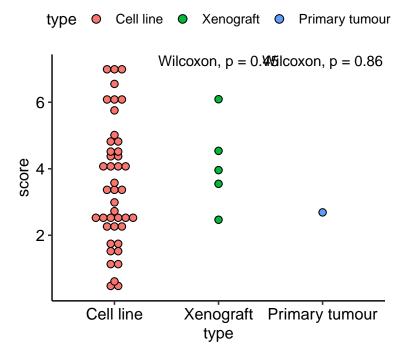


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Puleo.Centroids score

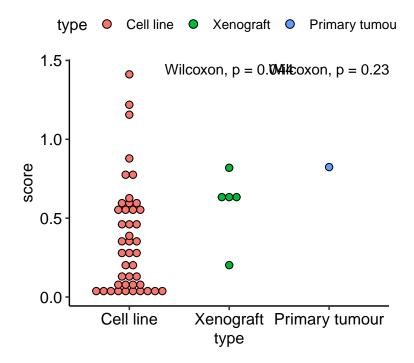


Collisson.Classical score

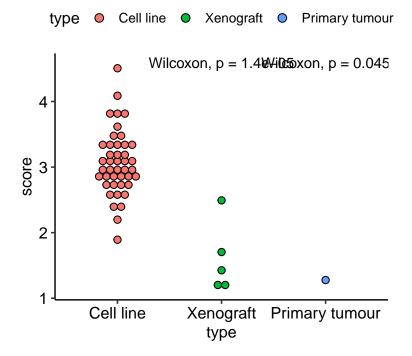


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Collisson. Exocrine score

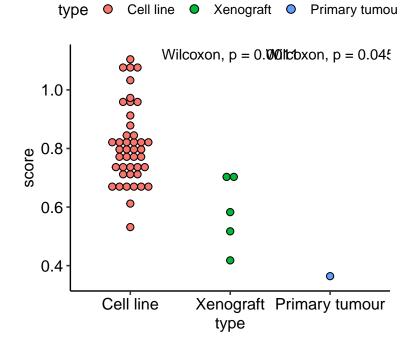


Collisson.QM score

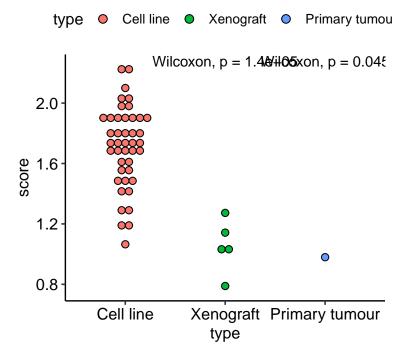


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ICGC.ADEX.Up score

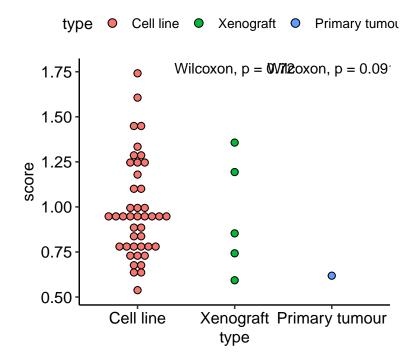


ICGC.ADEX.Down score

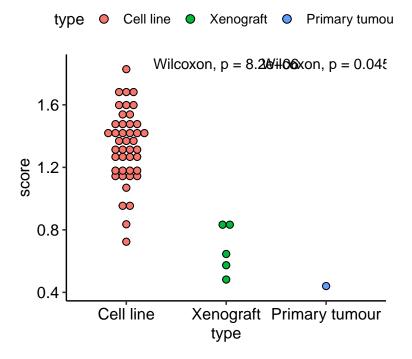


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ICGC.Immunogenic.Up score

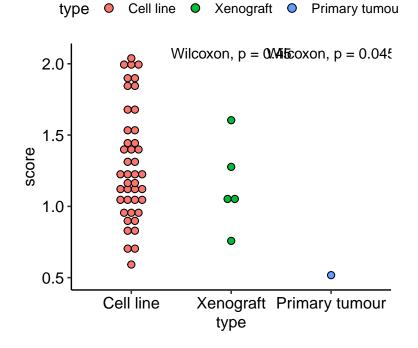


ICGC.Immunogenic.Down score

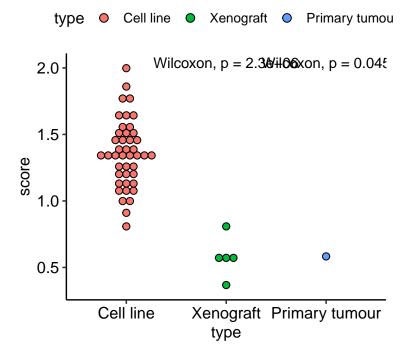


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ICGC.Progenitor.Up score

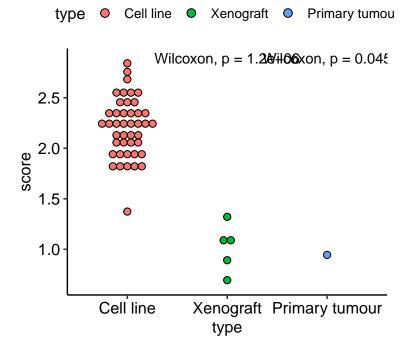


ICGC.Progenitor.Down score

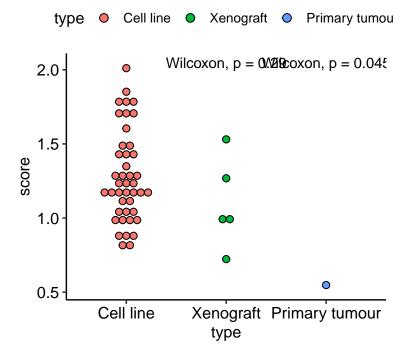


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ICGC.Squamous.Up score

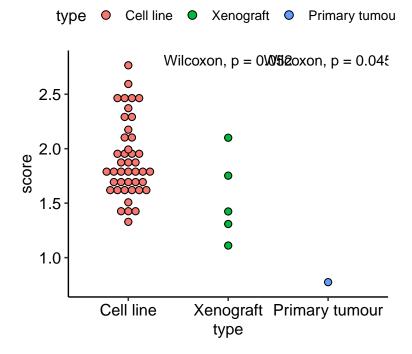


ICGC.Squamous.Down score

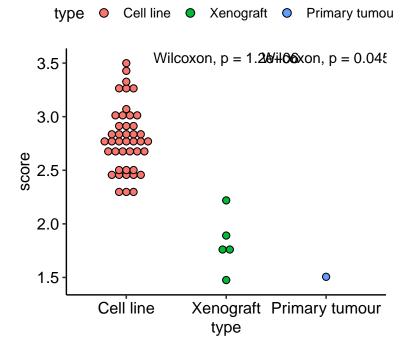


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ICGC.SAM score

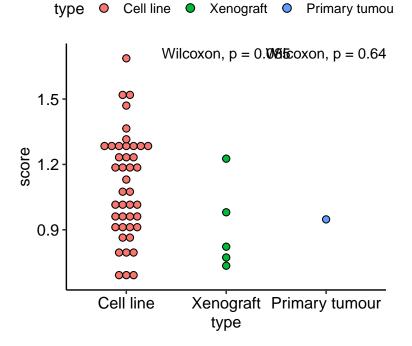


Scarpa_PanNET score

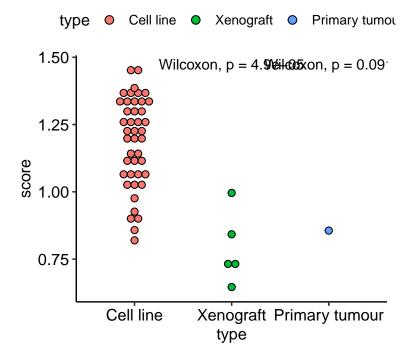


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.Top5s score

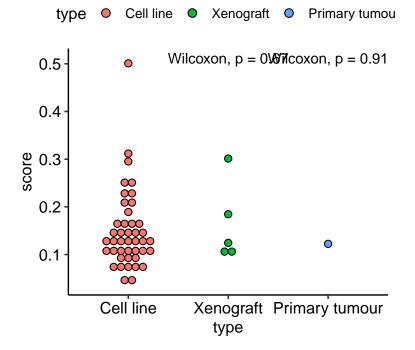


Moffitt.Top25s score

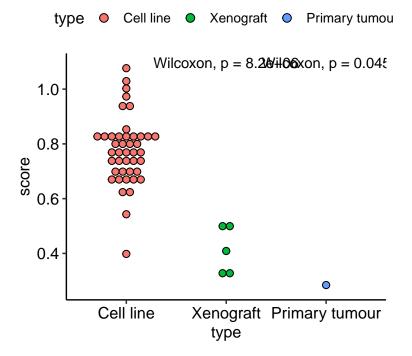


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F1_Liver.top25 score

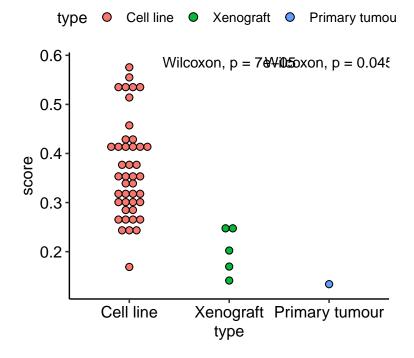


Moffitt.F1_Liver.top250 score

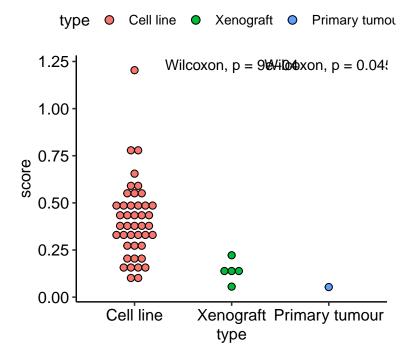


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Moffitt.F1_Liver.top100 score

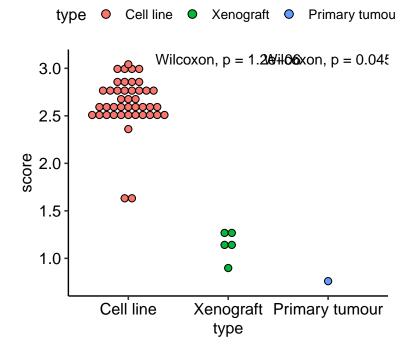


Moffitt.F2.top25 score

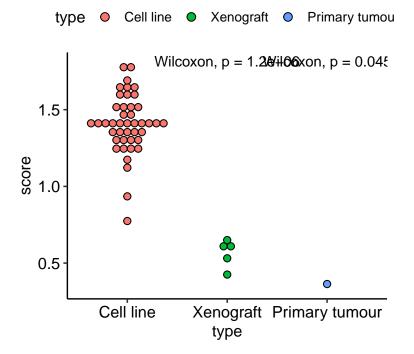


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Moffitt.F2.top250 score

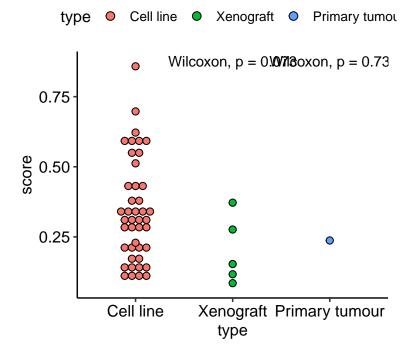


Moffitt.F2.top100 score

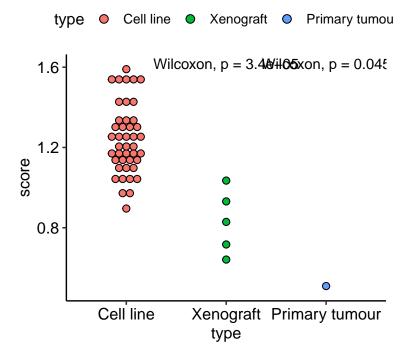


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Moffitt.F3_Exocrine.top25 score

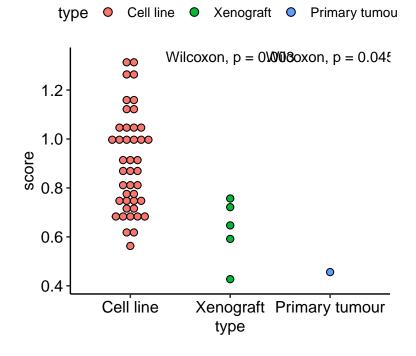


Moffitt.F3_Exocrine.top250 score

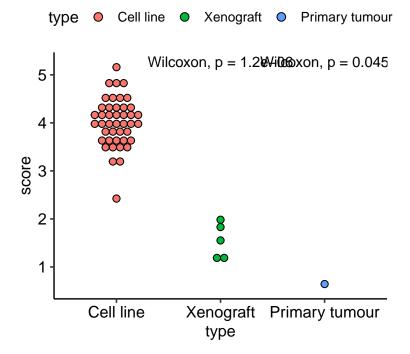


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Moffitt.F3_Exocrine.top100 score

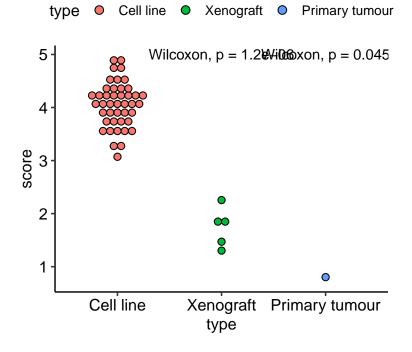


Moffitt.F4_CellCycle.top25 score

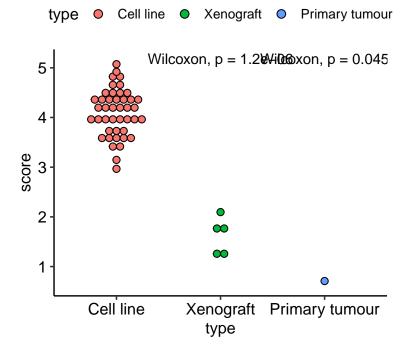


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F4_CellCycle.top250 score

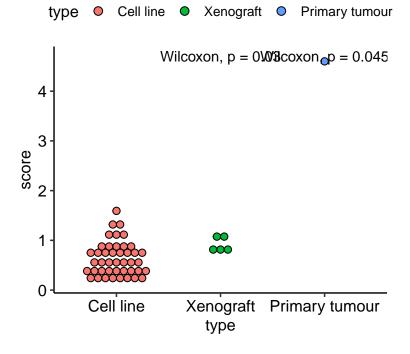


Moffitt.F4_CellCycle.top100 score



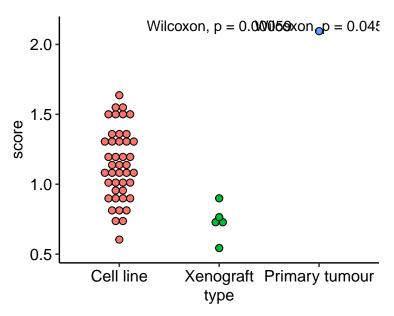
Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F5_ActivatedStroma.top25 score



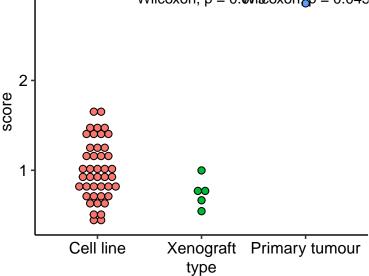
Moffitt.F5_ActivatedStroma.top250 sco

type • Cell line • Xenograft • Primary tumou

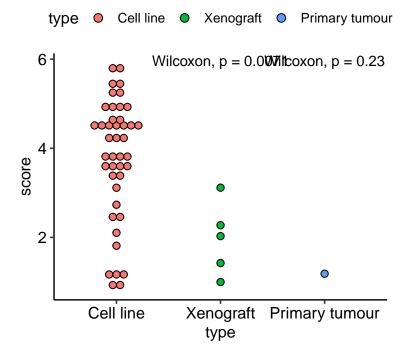


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F5_ActivatedStroma.top100 score

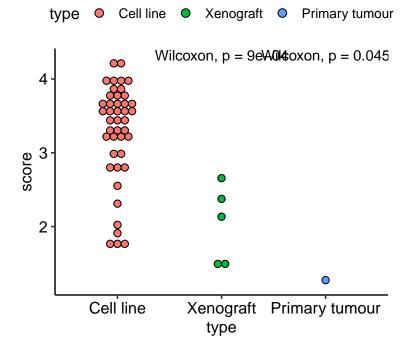


Moffitt.F6_BasalLike.top25 score

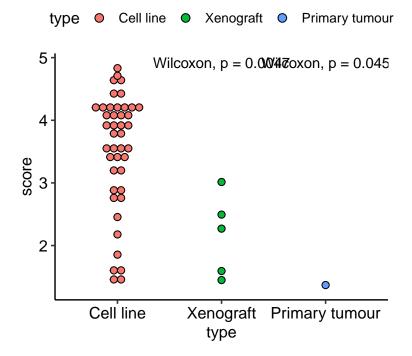


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F6_BasalLike.top250 score

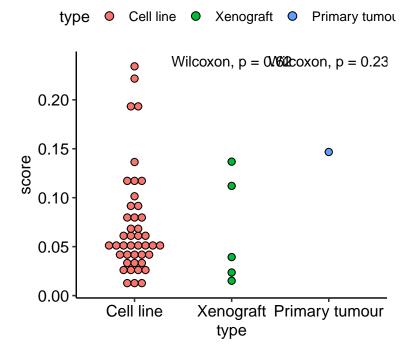


Moffitt.F6_BasalLike.top100 score

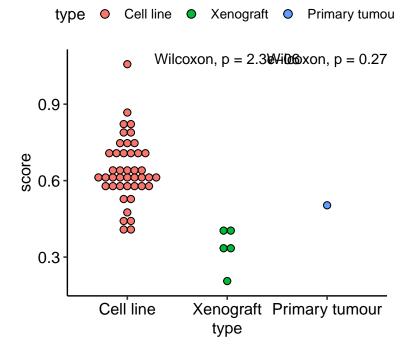


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F7_Immune.top25 score

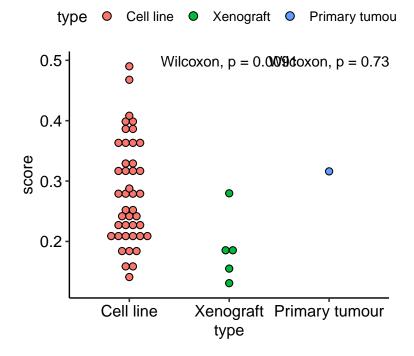


Moffitt.F7_Immune.top250 score

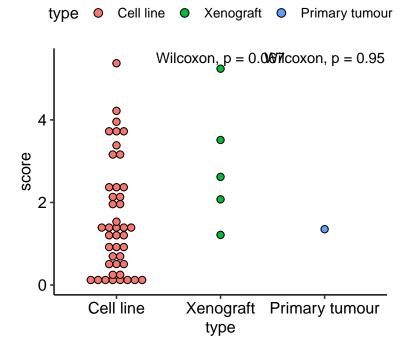


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F7_Immune.top100 score

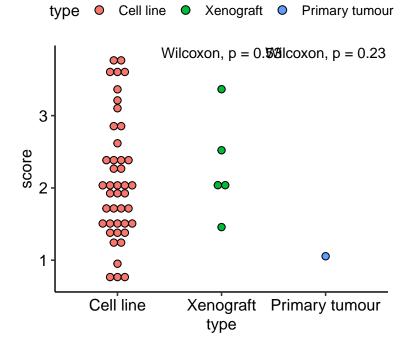


Moffitt.F8_Classical.top25 score

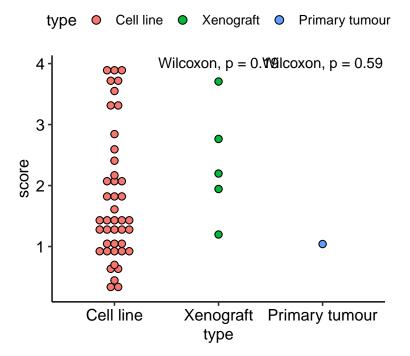


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F8_Classical.top250 score

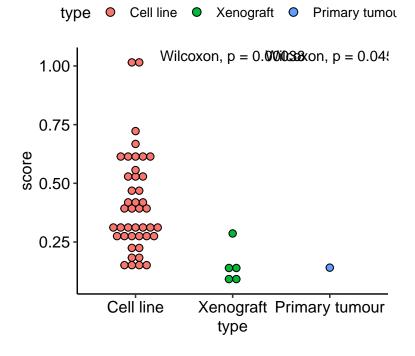


Moffitt.F8_Classical.top100 score

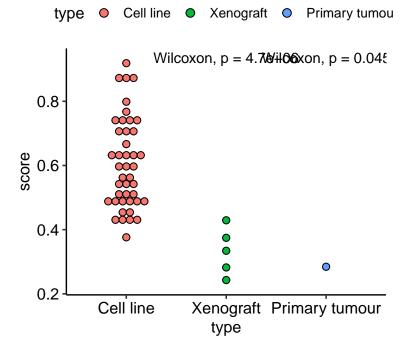


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F9_Lung.top25 score

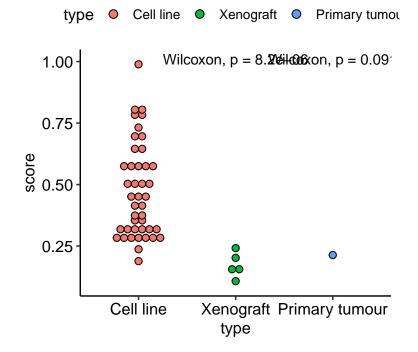


Moffitt.F9_Lung.top250 score

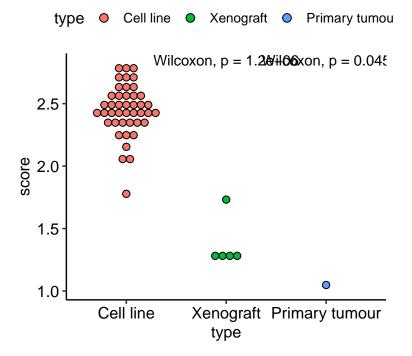


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F9_Lung.top100 score

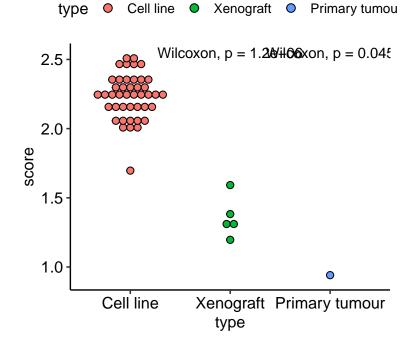


Moffitt.F10.top25 score

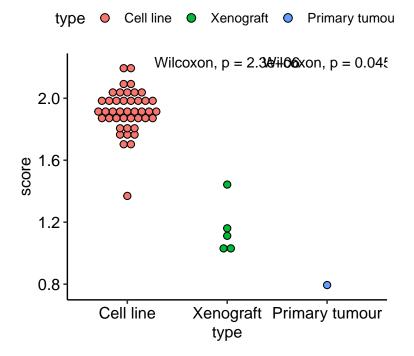


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Moffitt.F10.top250 score

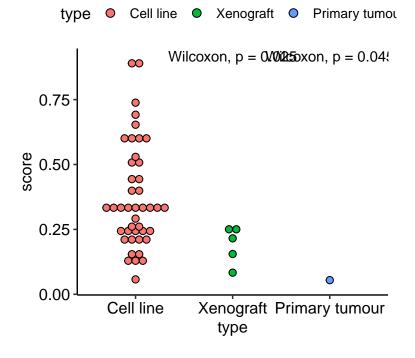


Moffitt.F10.top100 score

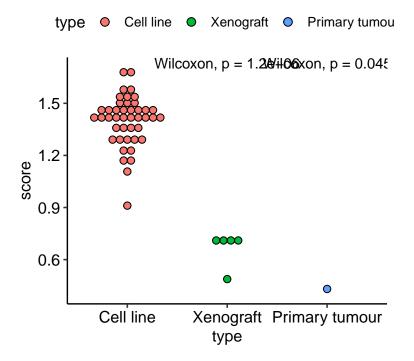


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Moffitt.F11_Muscle.top25 score

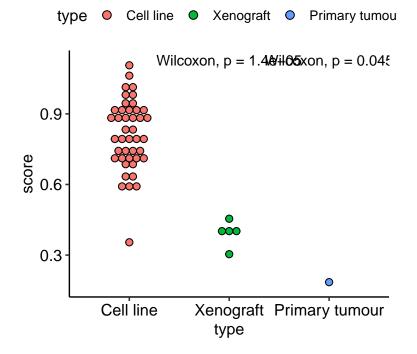


Moffitt.F11_Muscle.top250 score

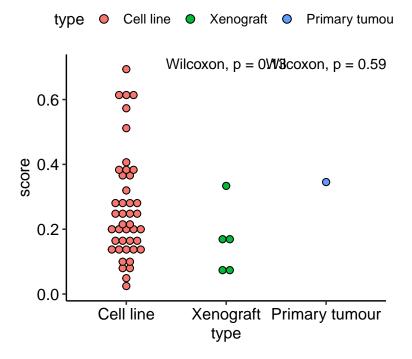


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Moffitt.F11_Muscle.top100 score

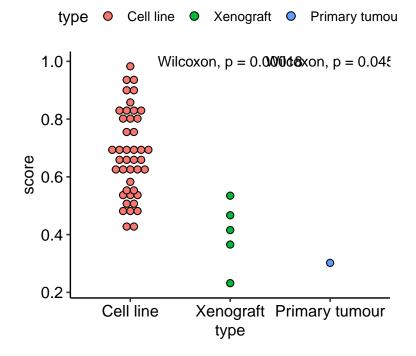


Moffitt.F12_Endocrine.top25 score

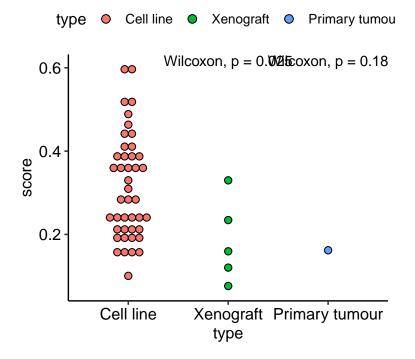


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F12_Endocrine.top250 score

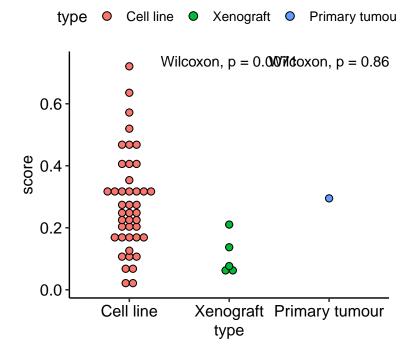


Moffitt.F12_Endocrine.top100 score

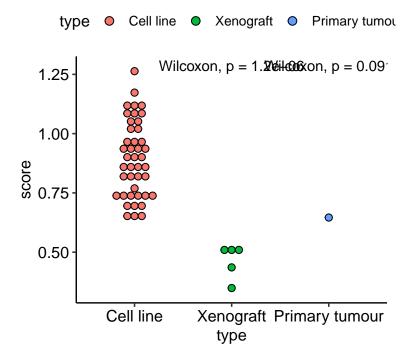


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Moffitt.F13_NormalStroma.top25 score

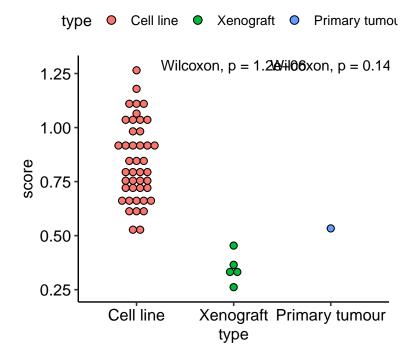


Moffitt.F13_NormalStroma.top250 sco

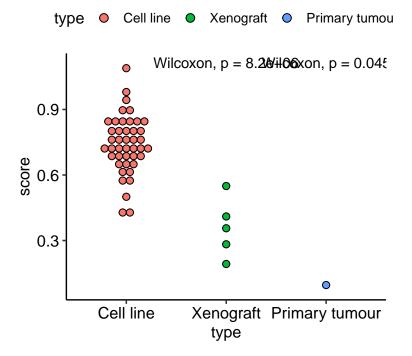


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Moffitt.F13_NormalStroma.top100 sco

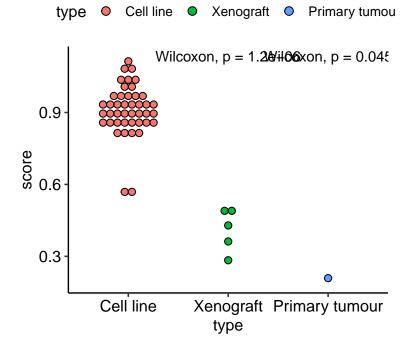


Moffitt.F14.top25 score

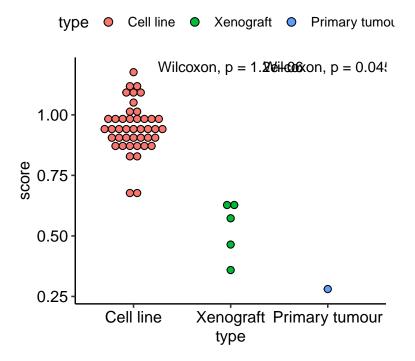


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Moffitt.F14.top250 score

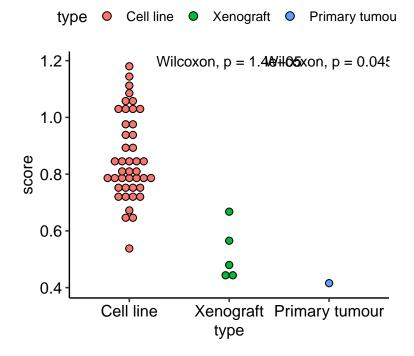


Moffitt.F14.top100 score

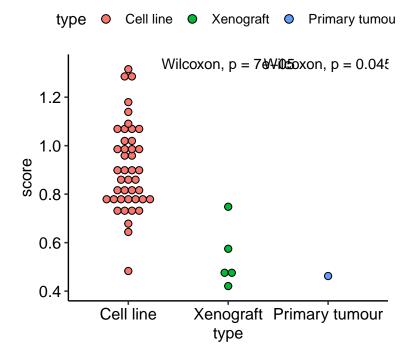


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

CIBERSORT.B.cells.naive score

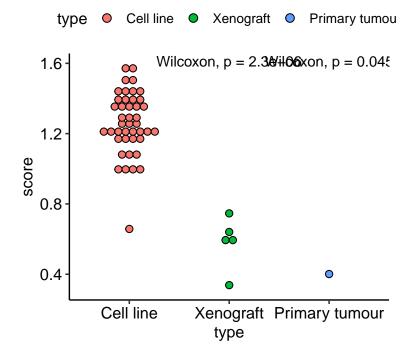


CIBERSORT.B.cells.memory score

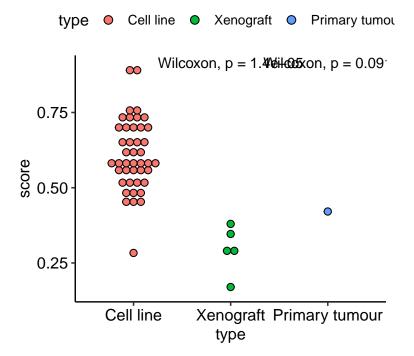


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

CIBERSORT.Plasma.cells score

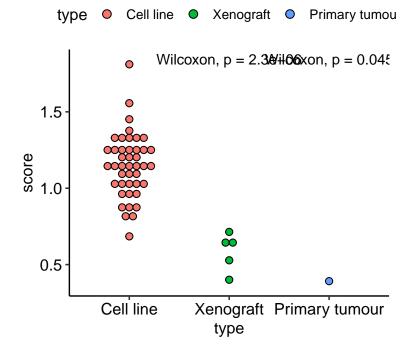


CIBERSORT.T.cells.CD8 score

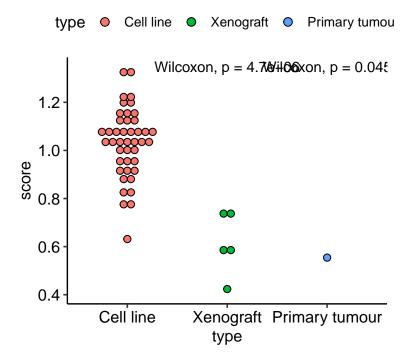


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

CIBERSORT.T.cells.CD4.naive score

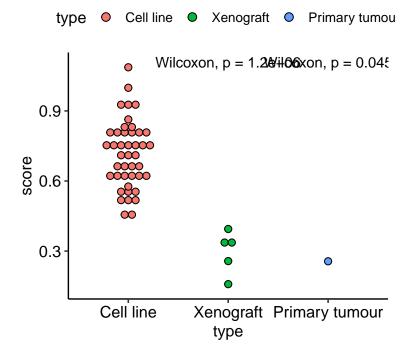


CIBERSORT.T.cells.CD4.memory.restin

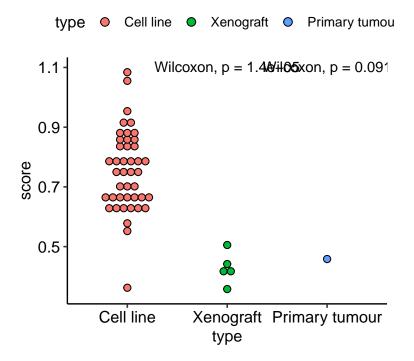


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CIBERSORT.T.cells.CD4.memory.activa

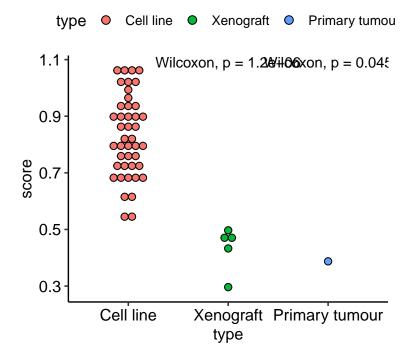


CIBERSORT.T.cells.follicular.helper scc

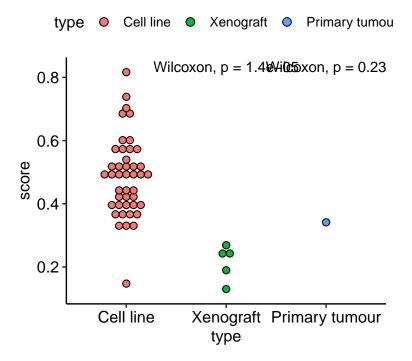


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

CIBERSORT.T.cells.regulatory..Tregs. s

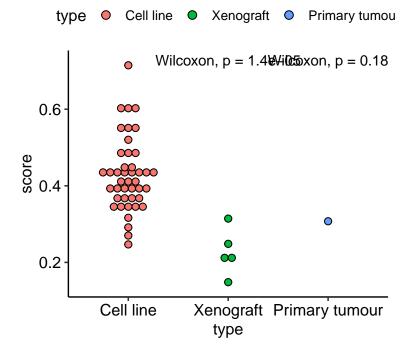


CIBERSORT.T.cells.gamma.delta score

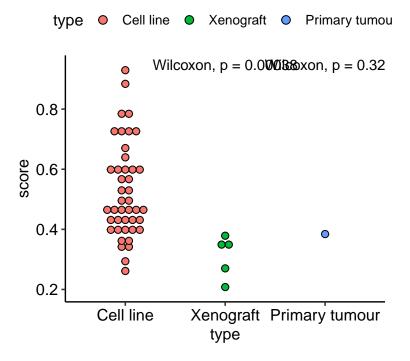


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

CIBERSORT.NK.cells.resting score

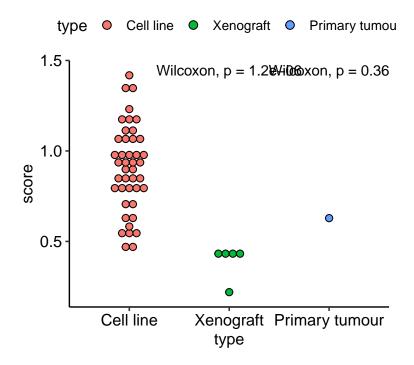


CIBERSORT.NK.cells.activated score

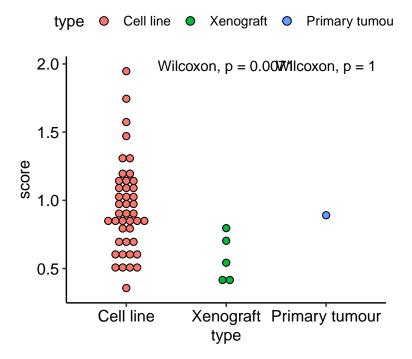


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

CIBERSORT.Monocytes score

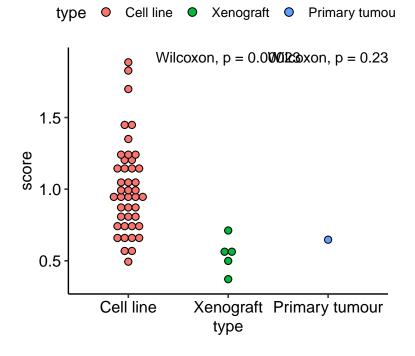


CIBERSORT.Macrophages.M0 score

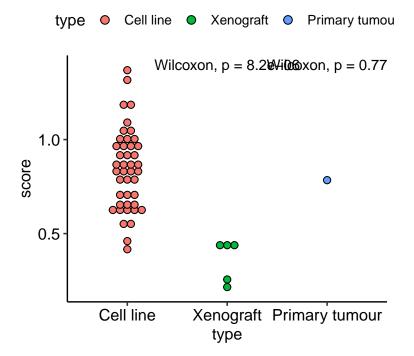


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

CIBERSORT.Macrophages.M1 score

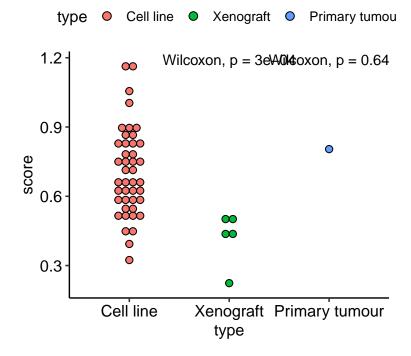


CIBERSORT.Macrophages.M2 score

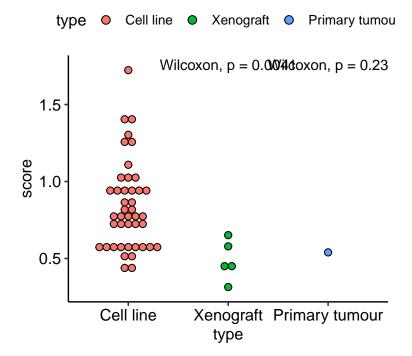


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

CIBERSORT.Dendritic.cells.resting sco

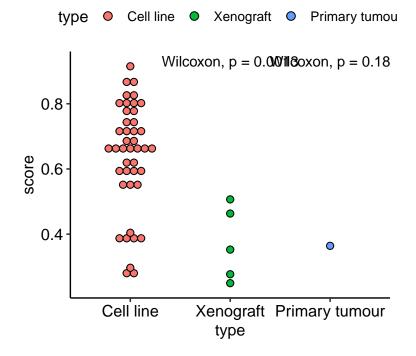


CIBERSORT.Dendritic.cells.activated so

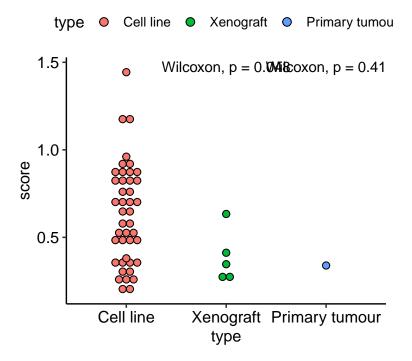


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

CIBERSORT.Mast.cells.resting score

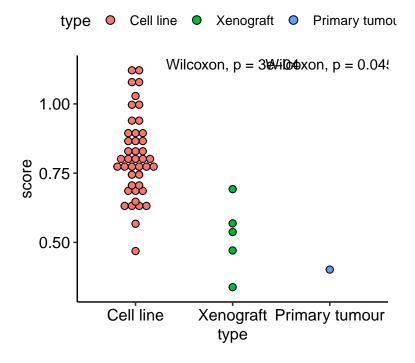


CIBERSORT.Mast.cells.activated score

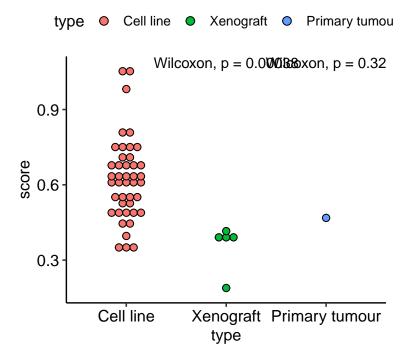


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

CIBERSORT. Eosinophils score

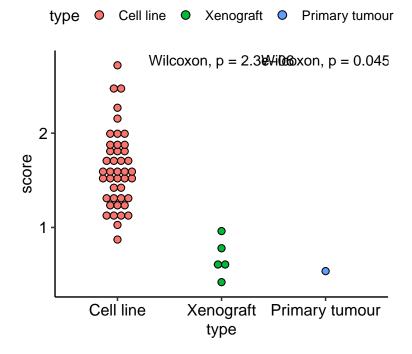


CIBERSORT.Neutrophils score

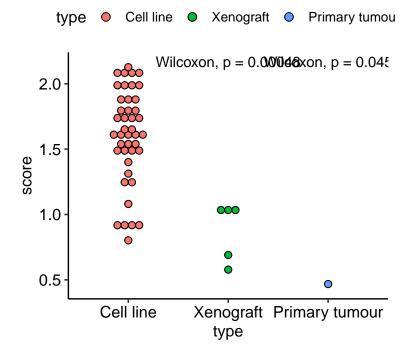


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Notta.BasalA score

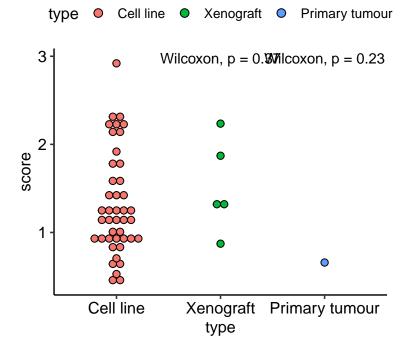


Notta.BasalB score

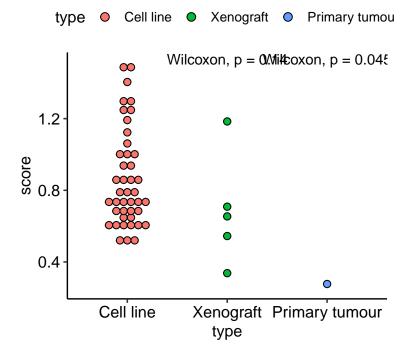


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Notta.ClassicalA score

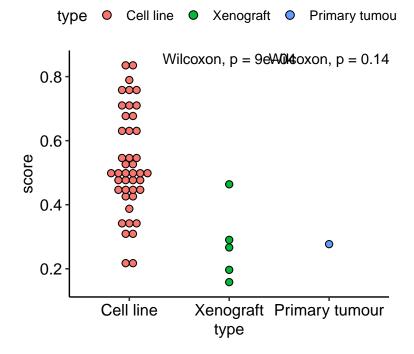


Notta.ClassicalB score

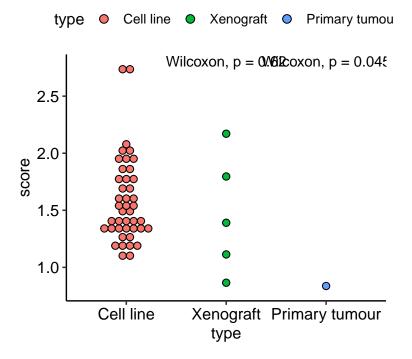


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

ADEX_unique score

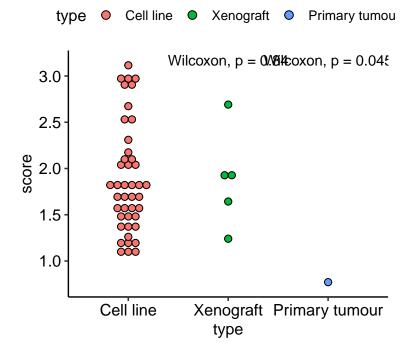


Immunogenic_unique score

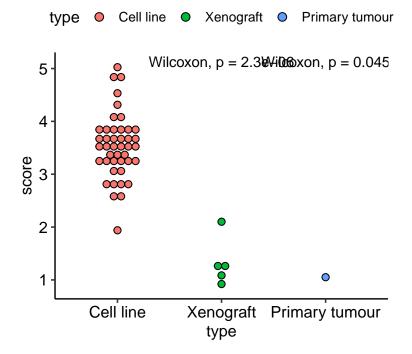


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

Progenitor_unique score

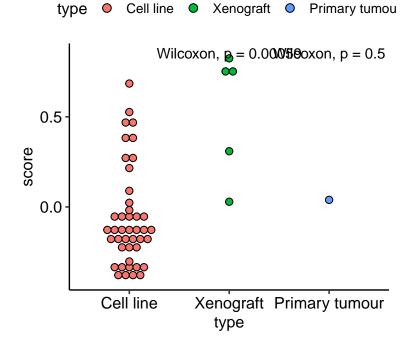


Squamous_unique score

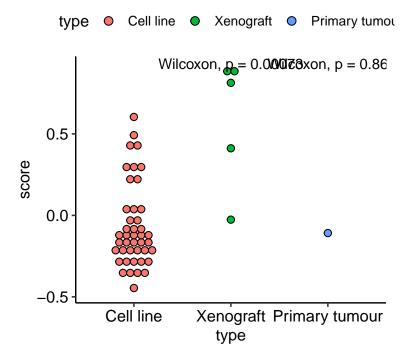


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.



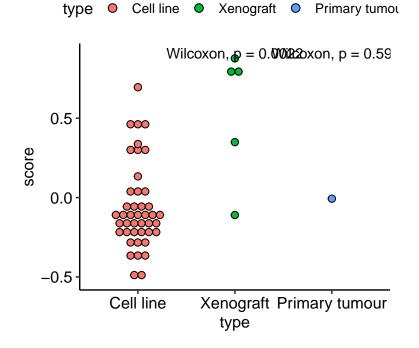


molgrad_Puleo score

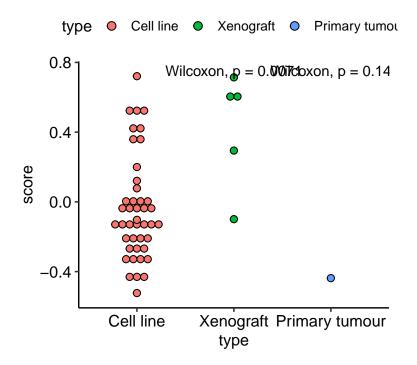


Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.

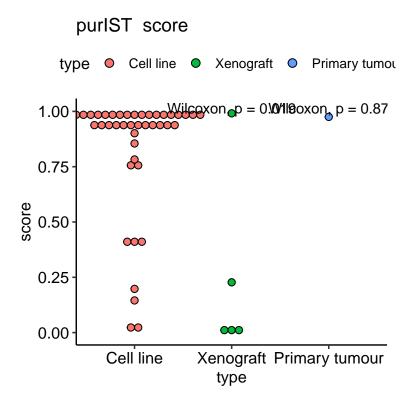
molgrad_ICGCarray score



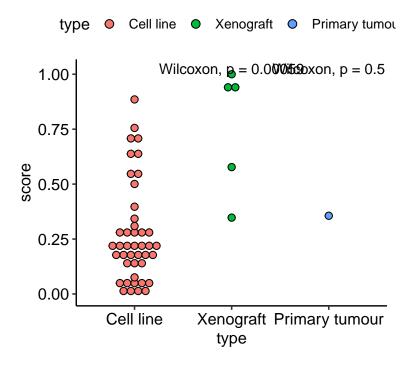
molgrad_ICGCrnaseq score



Bin width defaults to 1/30 of the range of the data. Pick better value with 'binwidth'.



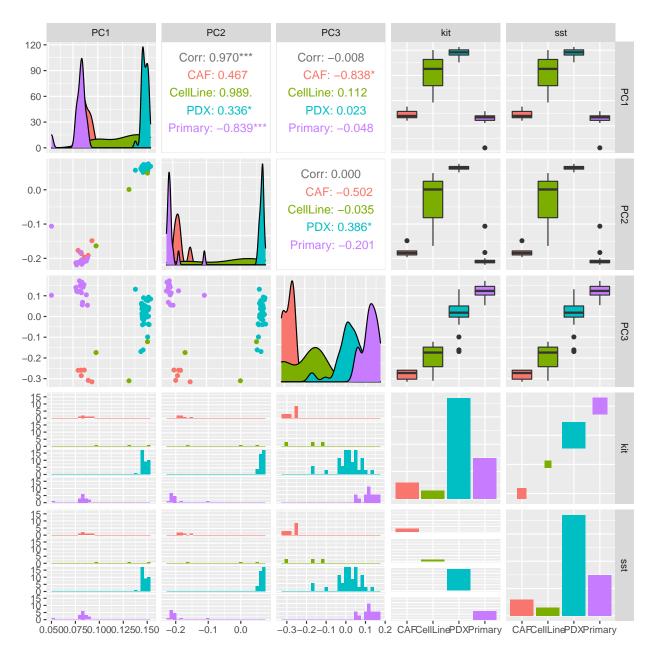
molgrad_scaled score



Setup for Moffitt S2

Select dataset and remove unwanted genes

Generate PCA plots

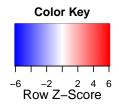


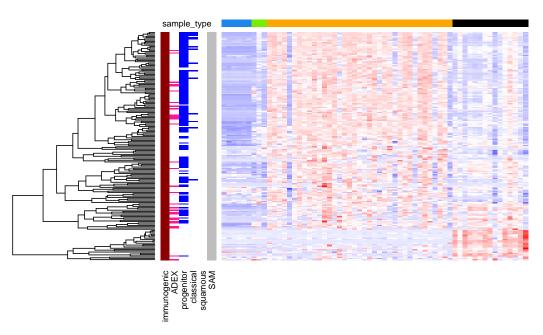
Calculate signature scores and SSC

Append TSP scores to expression data frames

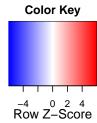
Results

Heat maps

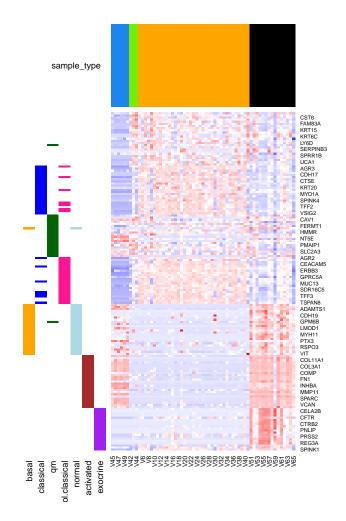




- ## [1] "% of progentior overlap with immunogenic"
- ## [1] 0.2592593
- ## [1] "% of ADEX overlap with immunogenic"
- ## [1] 0.09064327

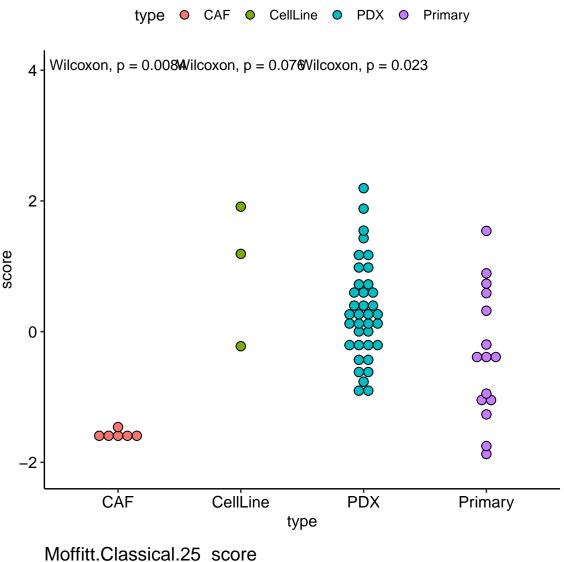


sample_type
CAF
CellLine
PDX
Primary



Boxplots to show gene expression in the above heatmap

Moffitt.Basal.25 score

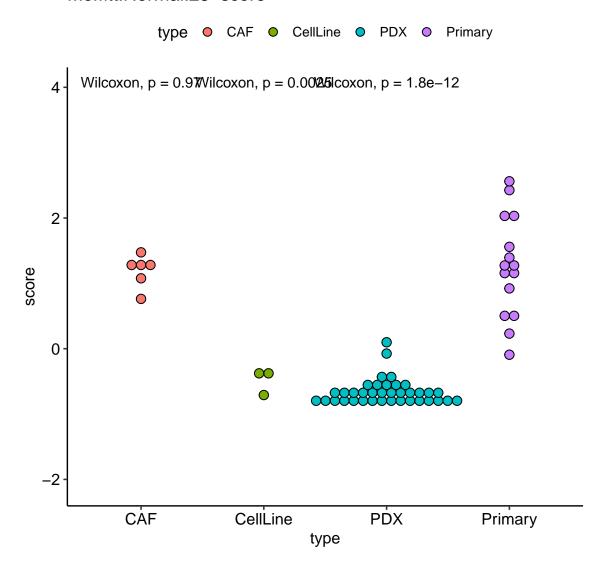




4 Wilcoxon, p = 3.7e-05Vilcoxon, p = 0.2Vilcoxon, p = 1.6e-06

2

Moffitt.Normal.25 score



Moffitt.Activated.25 score

-2

CAF

4 - Wilcoxon, p = 0.52/Vilcoxon, p = 0.00/2/5/coxon, p = 1.3e-11

type O CAF O CellLine O PDX O Primary

Warning: Removed 2 rows containing non-finite values (stat_bindot).

CellLine

PDX

Primary

Warning: Removed 2 rows containing non-finite values (stat_compare_means).

type

Moffitt.Tumor score

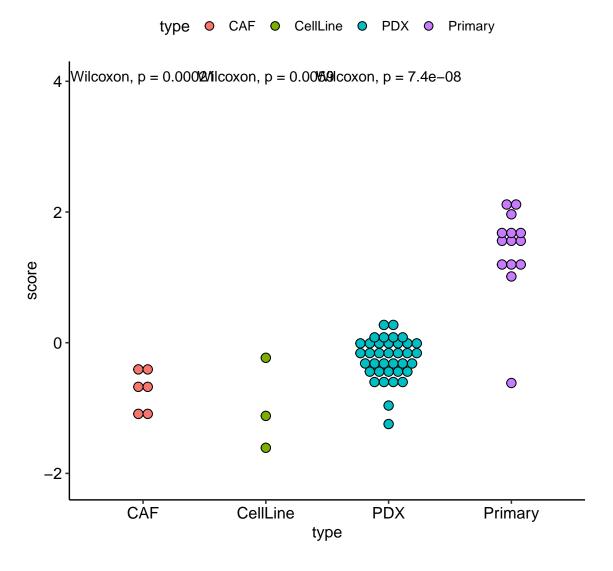
type • CAF • CellLine • PDX • Primary

4 - Wilcoxon, p = 0.001Wilcoxon, p = 0.5Wilcoxon, p = 5.7e-08

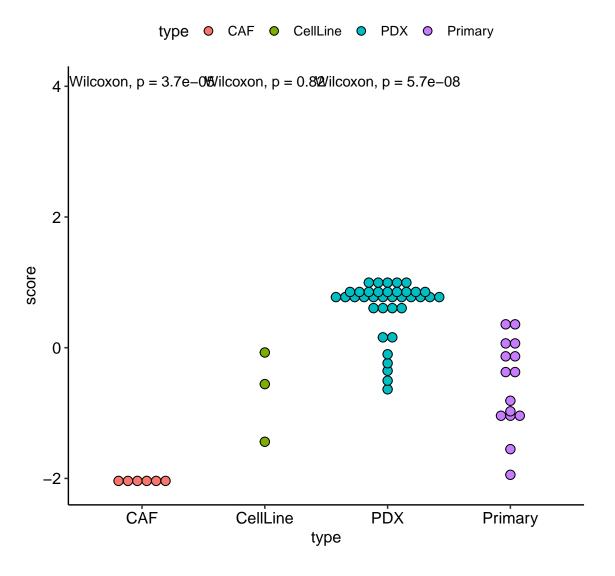
- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

type

Puleo.Centroids score

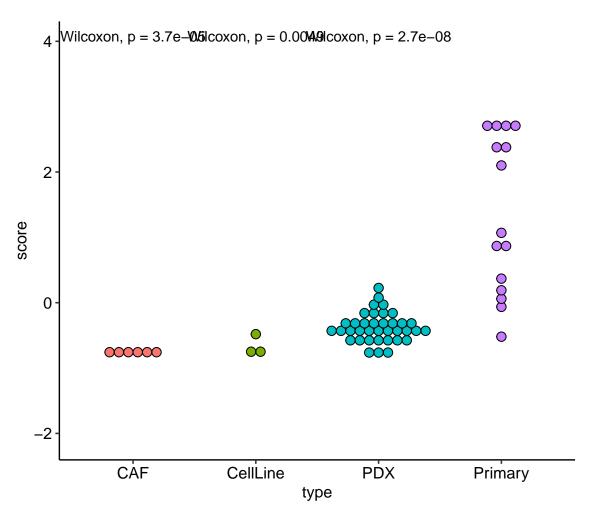


Collisson.Classical score



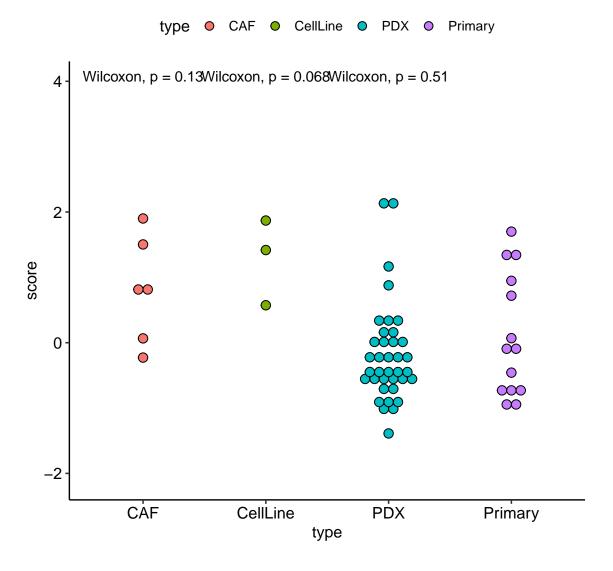
Collisson. Exocrine score





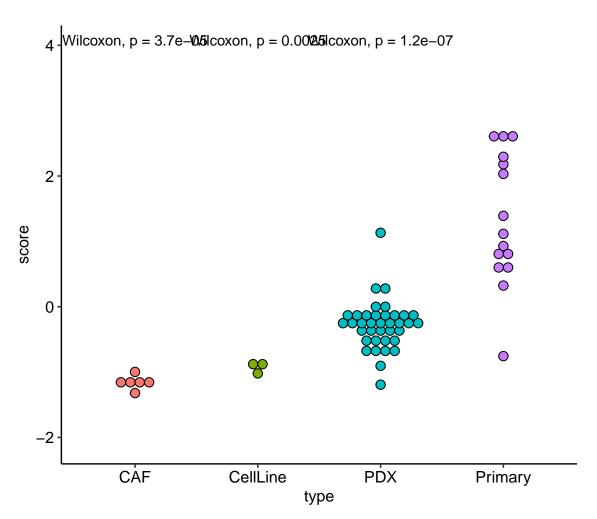
- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

Collisson.QM score



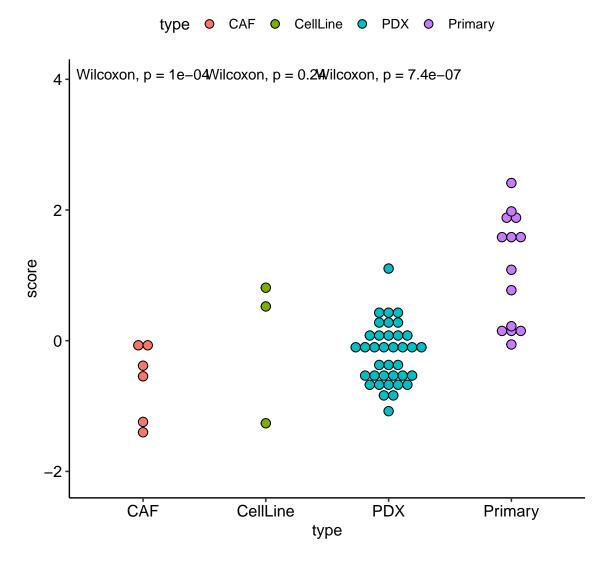
ICGC.ADEX.Up score



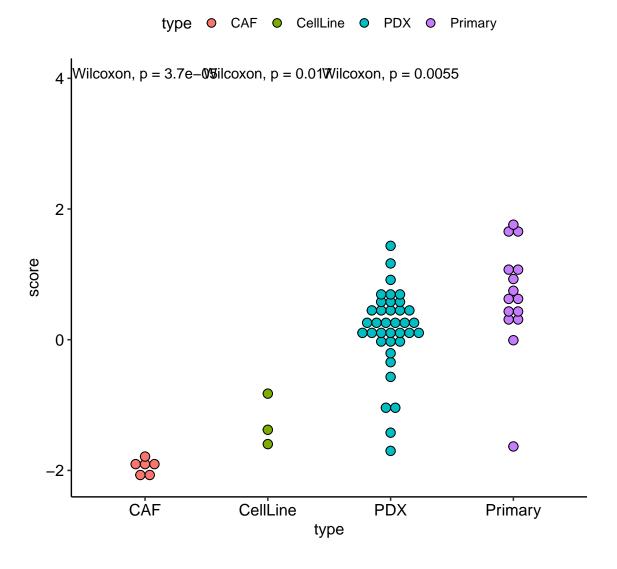


- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

ICGC.ADEX.Down score

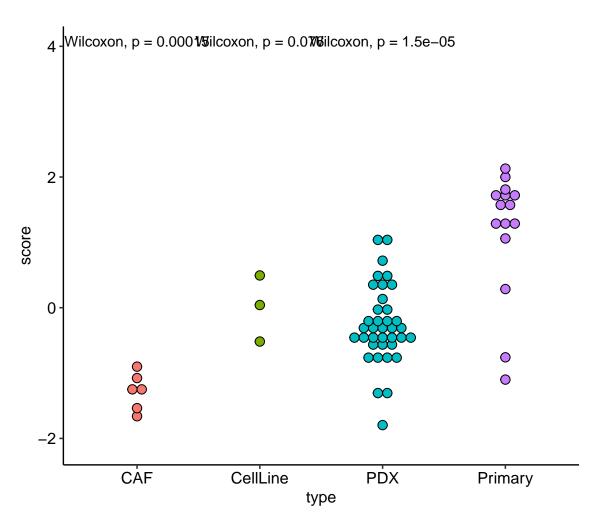


ICGC.Immunogenic.Up score



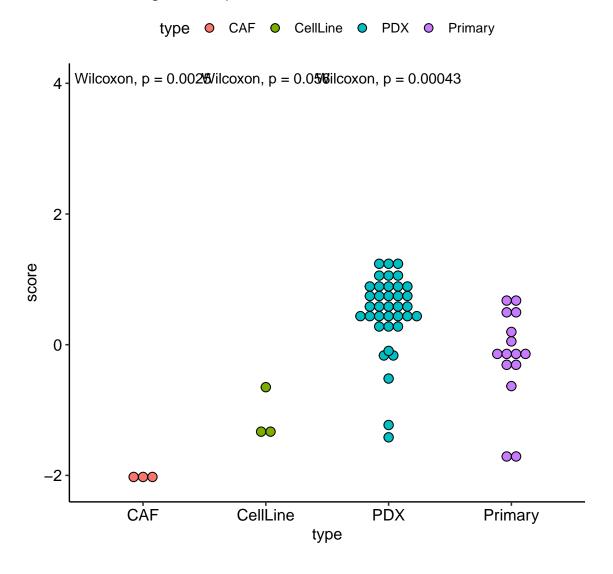
ICGC.Immunogenic.Down score

type O CAF O CellLine O PDX O Primary



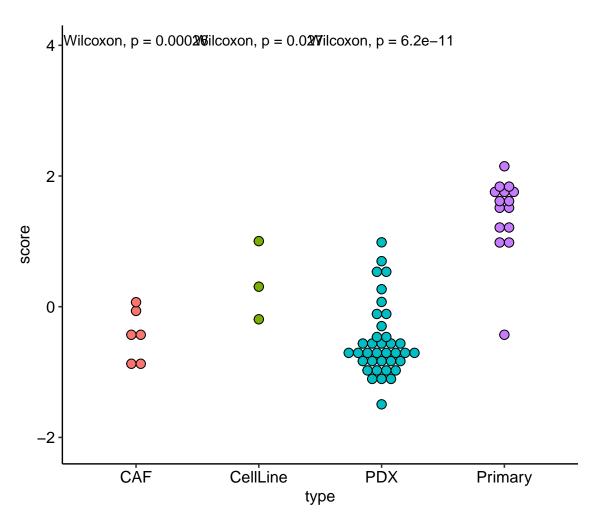
- ## Warning: Removed 3 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 3 rows containing non-finite values (stat_compare_means).

ICGC.Progenitor.Up score



ICGC.Progenitor.Down score

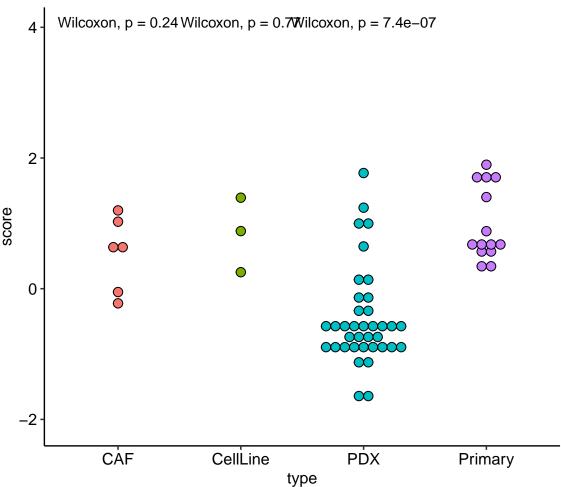
type ○ CAF ○ CellLine ○ PDX ○ Primary



- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

ICGC.Squamous.Up score

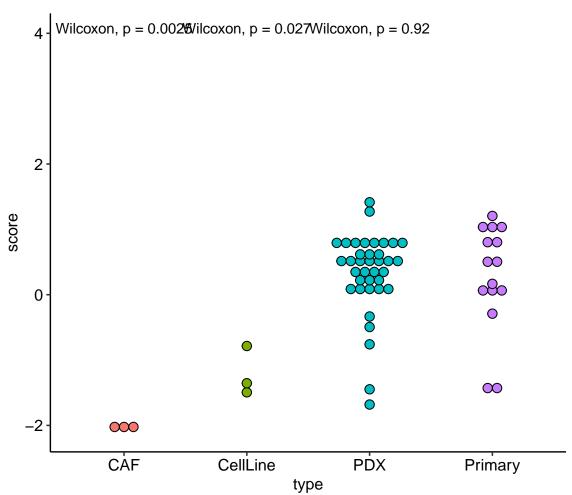
type ○ CAF ○ CellLine ○ PDX ○ Primary



- ## Warning: Removed 3 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 3 rows containing non-finite values (stat_compare_means).

ICGC.Squamous.Down score

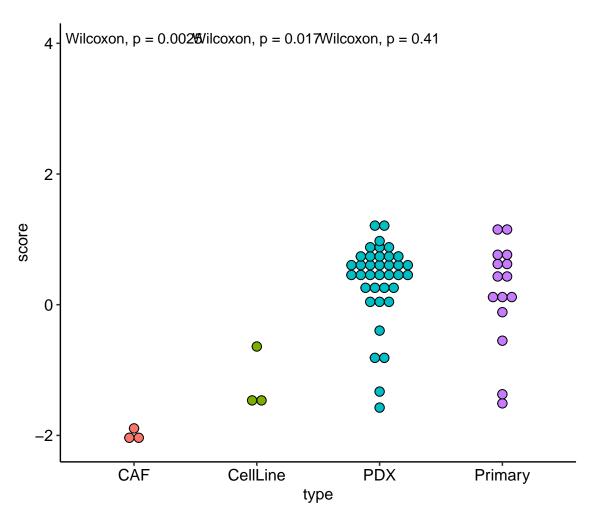
type O CAF O CellLine O PDX O Primary



- ## Warning: Removed 3 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 3 rows containing non-finite values (stat_compare_means).

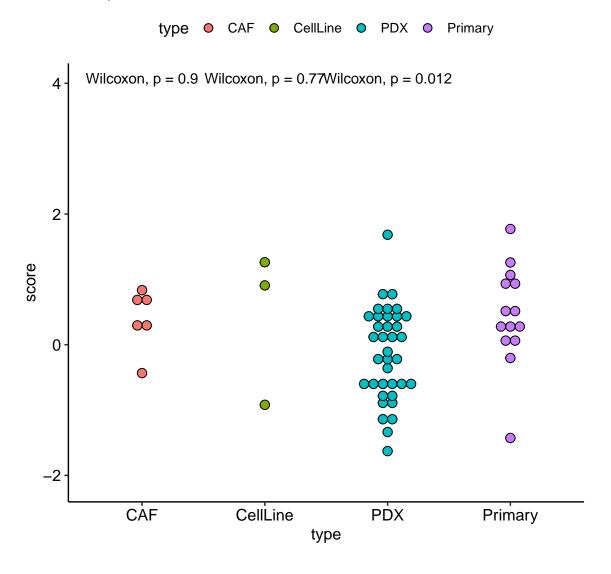
ICGC.SAM score

type ullet CAF ullet CellLine ullet PDX ullet Primary

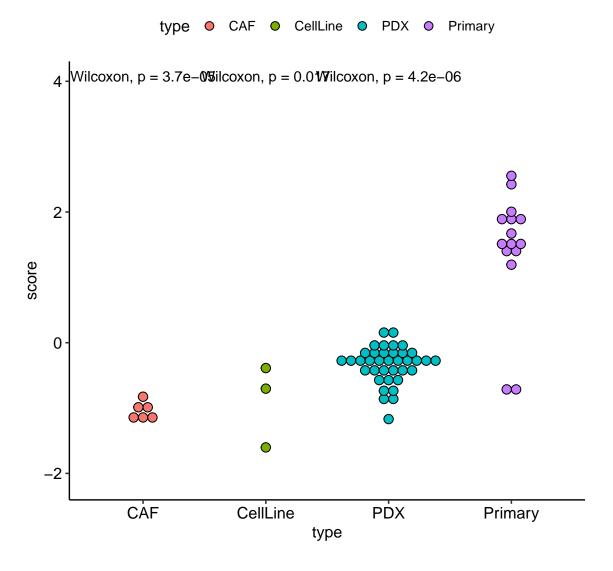


- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

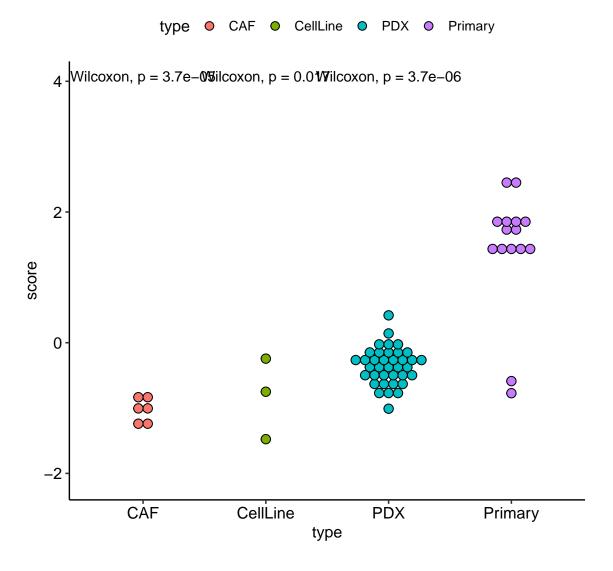
Scarpa_PanNET score



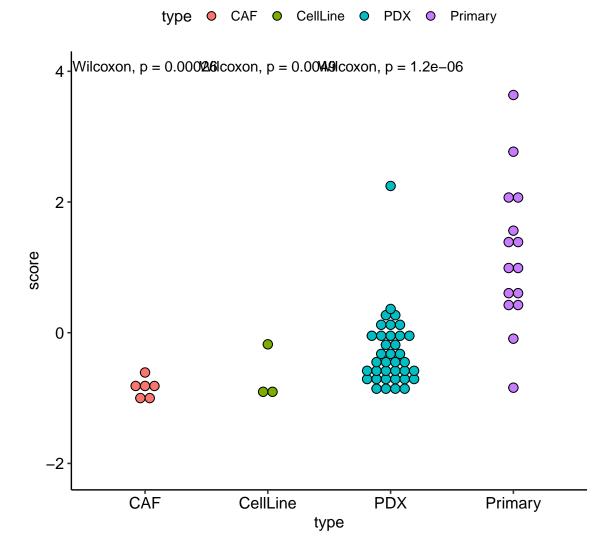
Moffitt.Top5s score



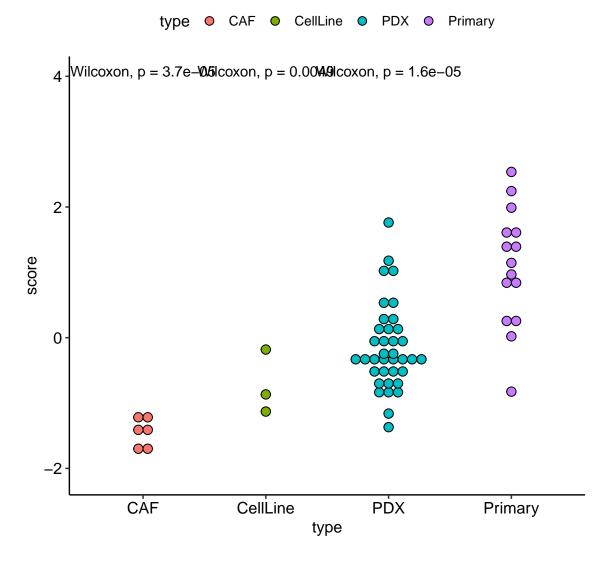
Moffitt.Top25s score



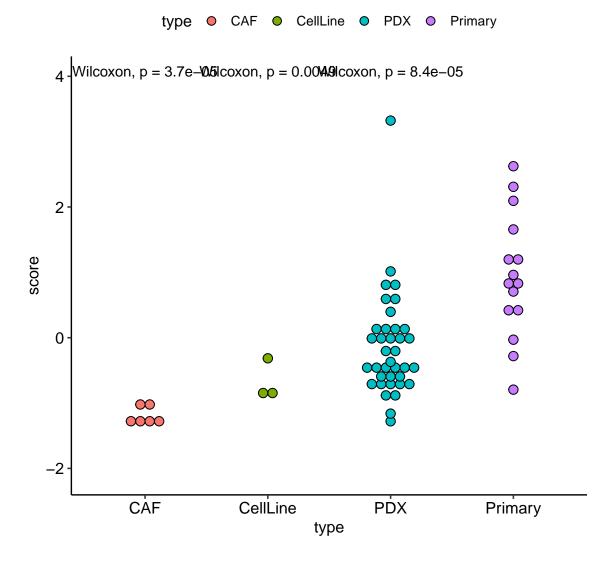
Moffitt.F1_Liver.top25 score



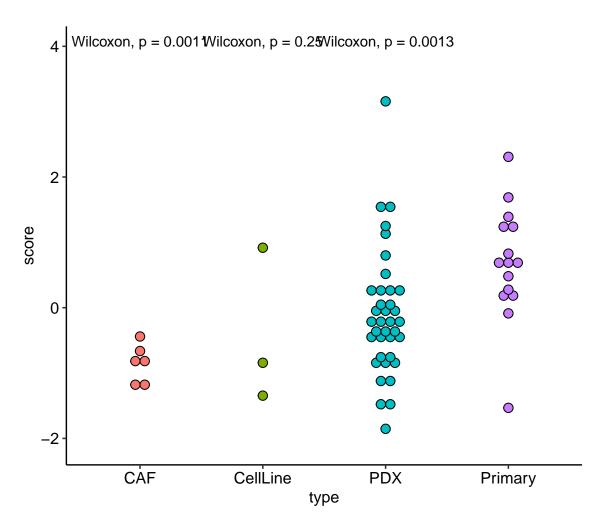
Moffitt.F1_Liver.top250 score



Moffitt.F1_Liver.top100 score



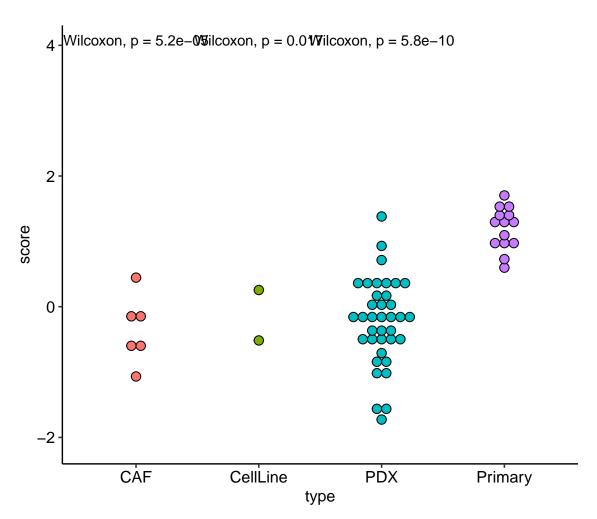
Moffitt.F2.top25 score



- ## Warning: Removed 2 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 2 rows containing non-finite values (stat_compare_means).

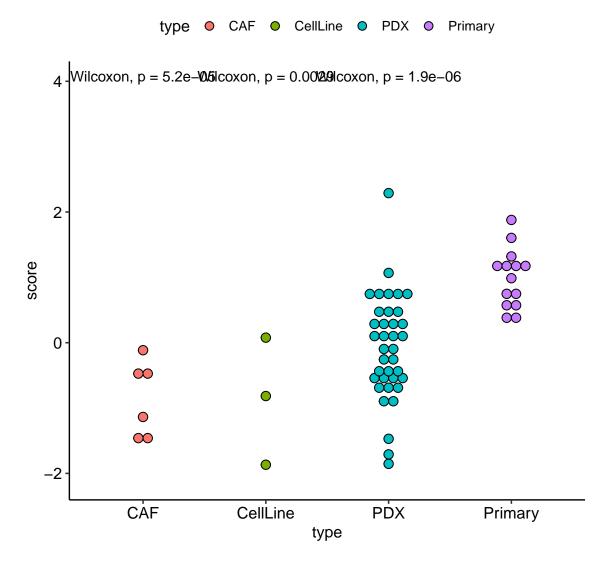
Moffitt.F2.top250 score

type ○ CAF ○ CellLine ○ PDX ○ Primary

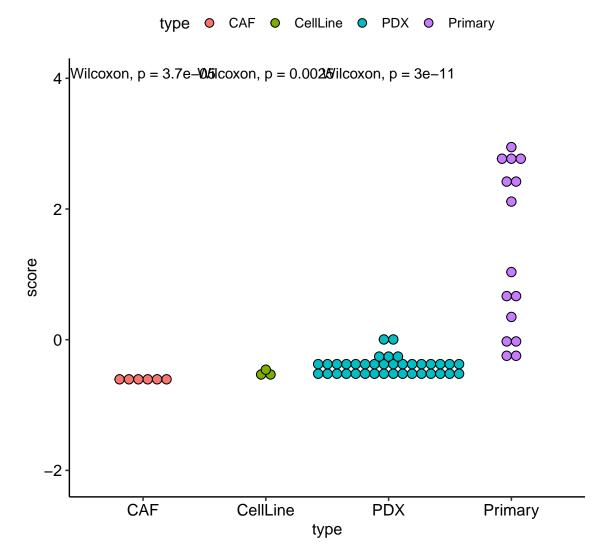


- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

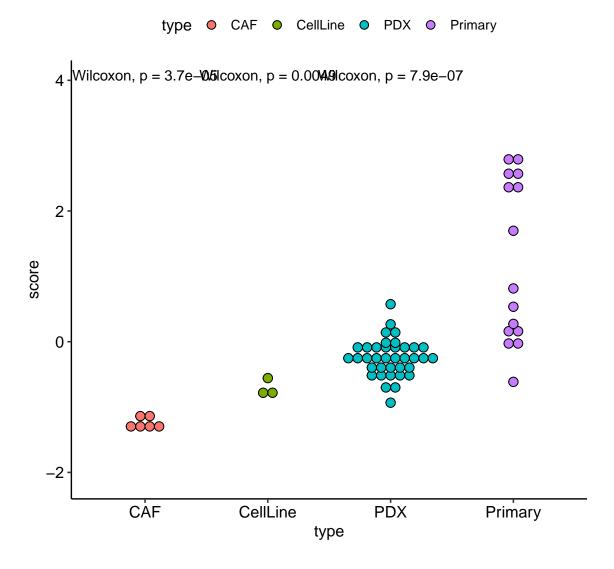
Moffitt.F2.top100 score



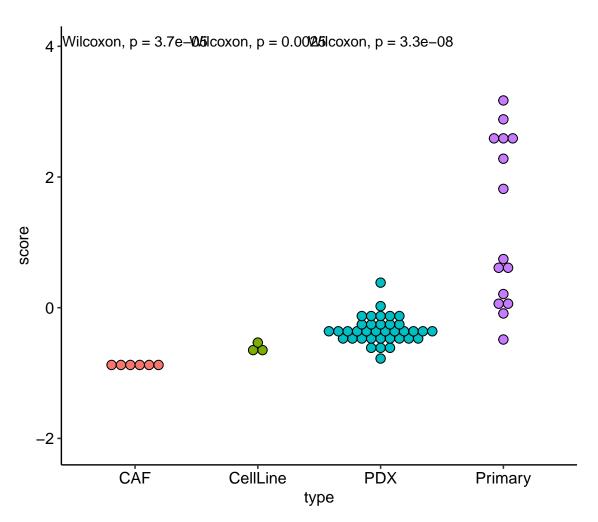
Moffitt.F3_Exocrine.top25 score



Moffitt.F3_Exocrine.top250 score

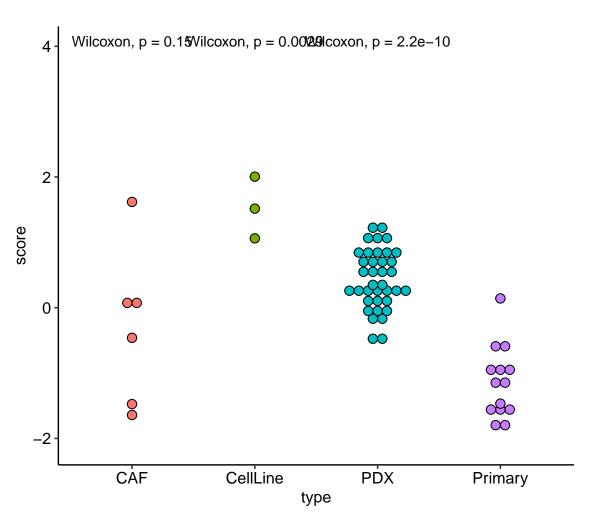


Moffitt.F3_Exocrine.top100 score



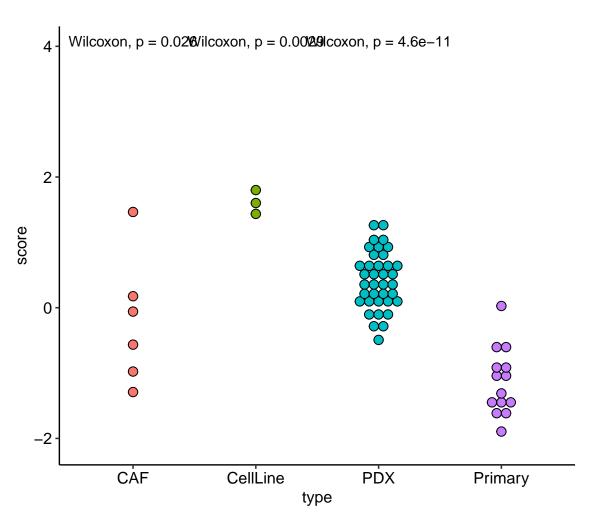
- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

Moffitt.F4_CellCycle.top25 score



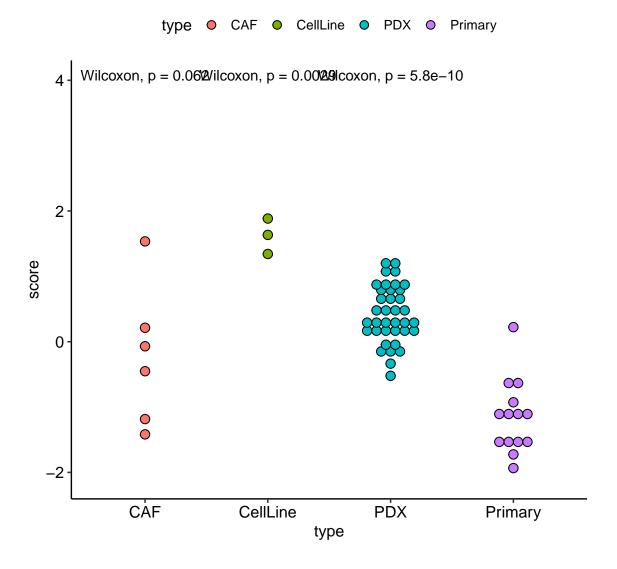
- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

Moffitt.F4_CellCycle.top250 score

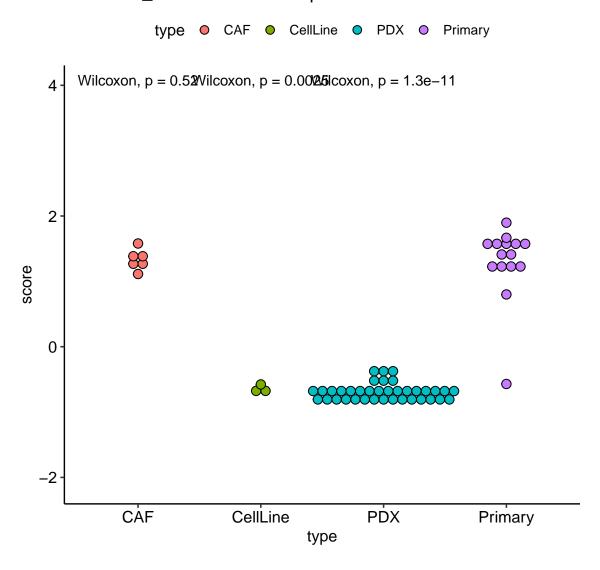


- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

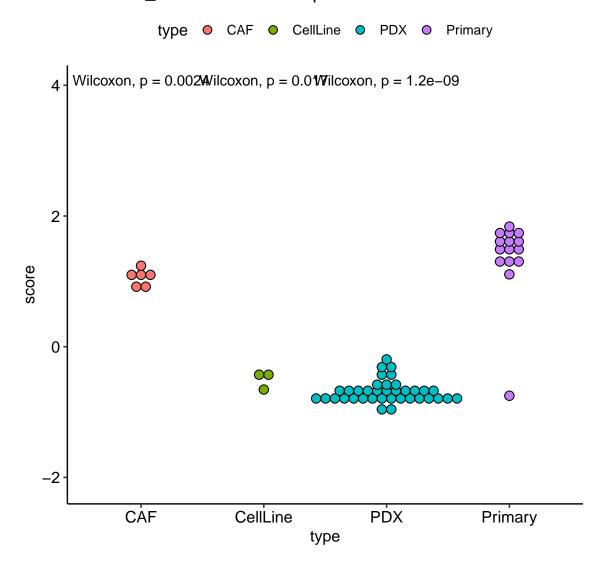
Moffitt.F4_CellCycle.top100 score



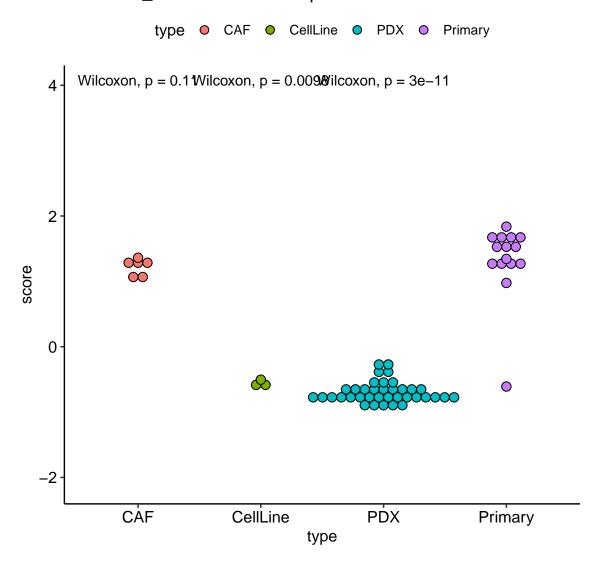
Moffitt.F5_ActivatedStroma.top25 score



Moffitt.F5_ActivatedStroma.top250 score

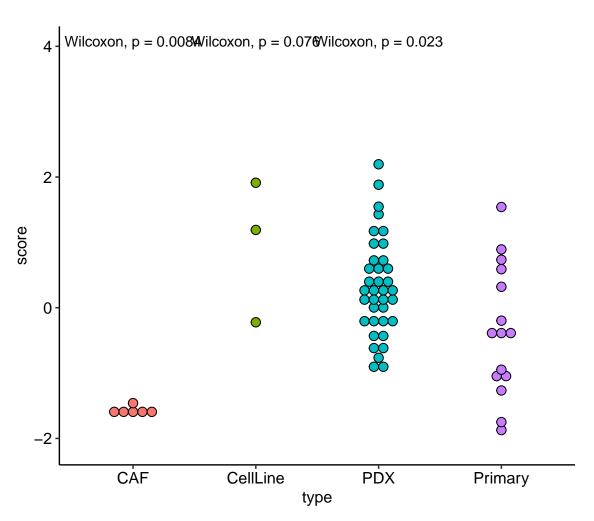


Moffitt.F5_ActivatedStroma.top100 score



Moffitt.F6_BasalLike.top25 score

type O CAF O CellLine O PDX O Primary

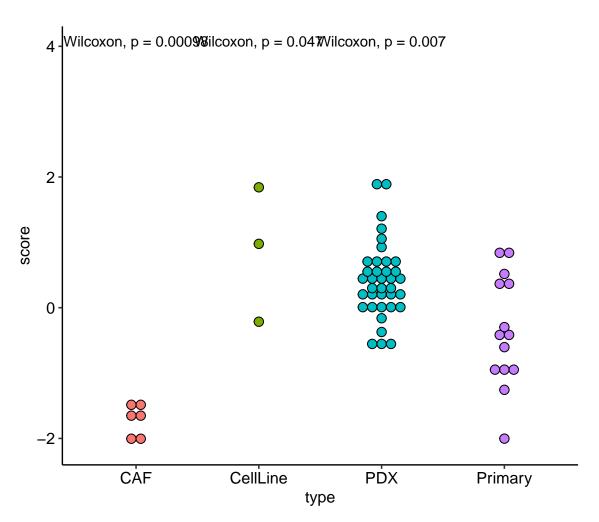


Warning: Removed 1 rows containing non-finite values (stat_bindot).

Warning: Removed 1 rows containing non-finite values (stat_compare_means).

Moffitt.F6_BasalLike.top250 score

type O CAF O CellLine O PDX O Primary

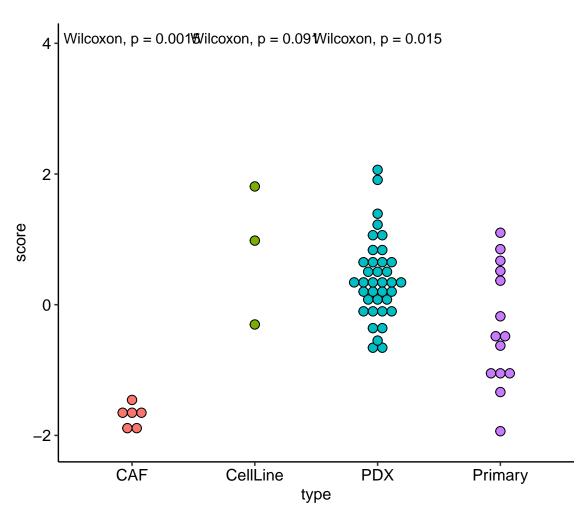


Warning: Removed 1 rows containing non-finite values (stat_bindot).

Warning: Removed 1 rows containing non-finite values (stat_compare_means).

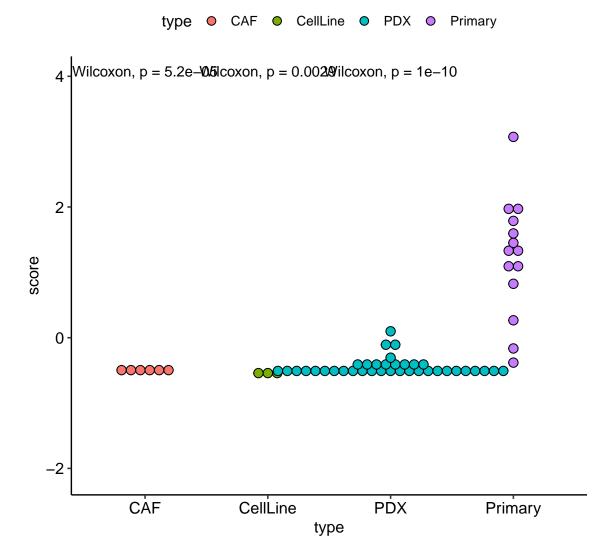
Moffitt.F6_BasalLike.top100 score





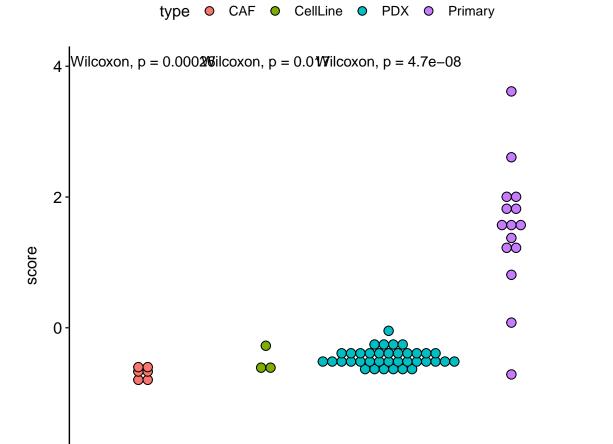
- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

Moffitt.F7_Immune.top25 score



Moffitt.F7_Immune.top250 score

CAF



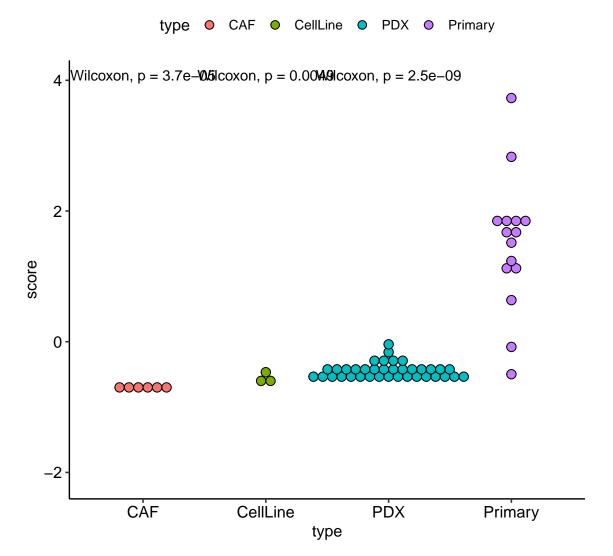
CellLine

type

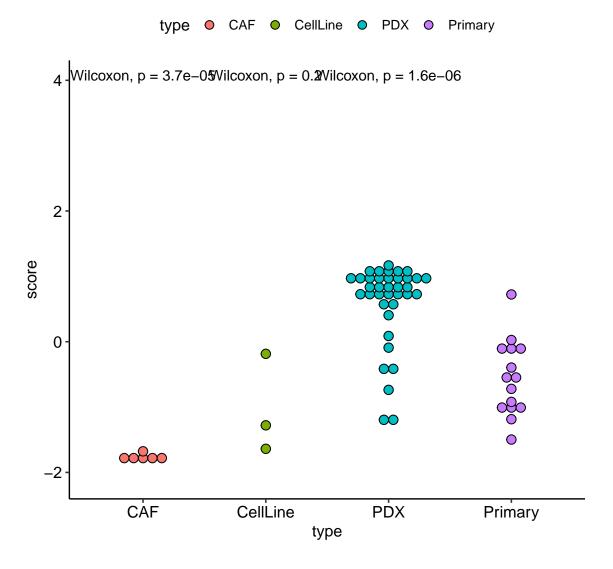
Primary

PDX

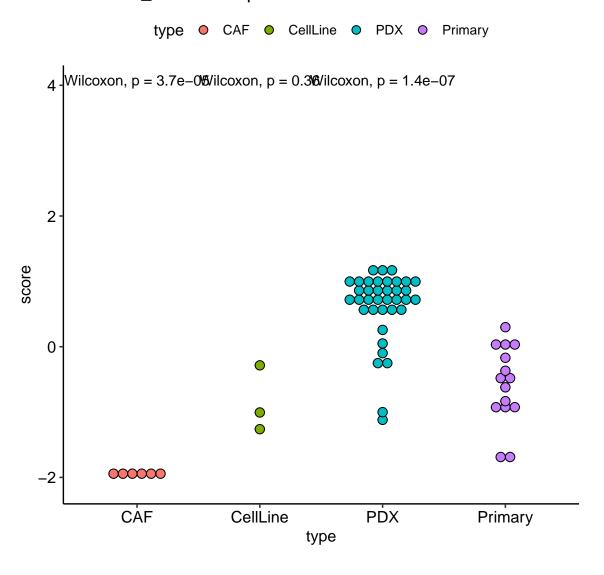
Moffitt.F7_Immune.top100 score



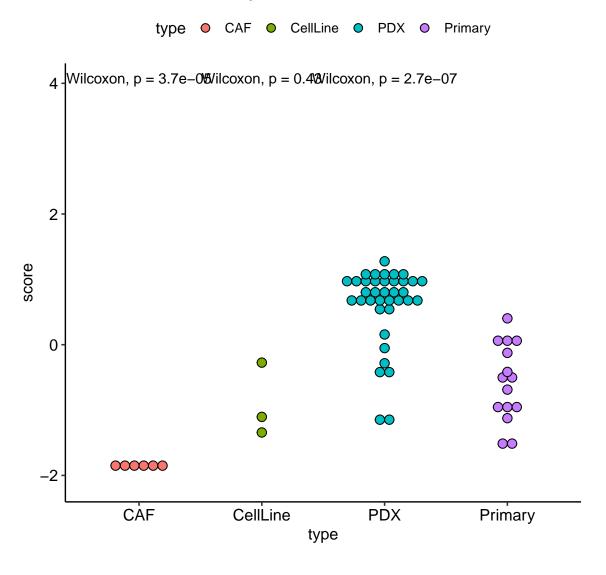
Moffitt.F8_Classical.top25 score



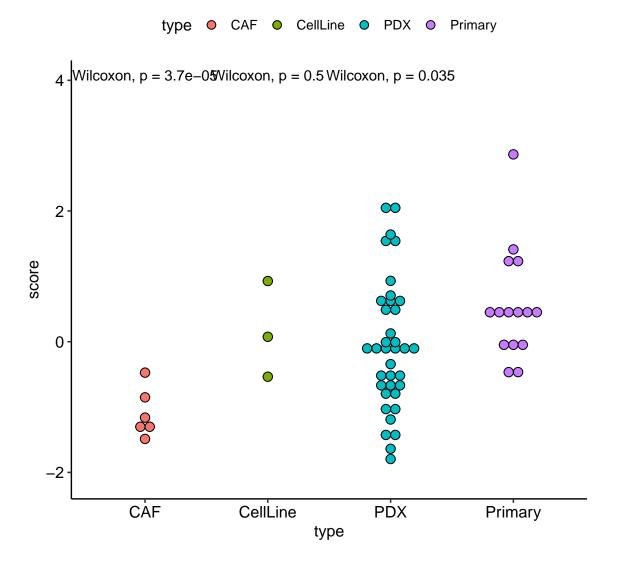
Moffitt.F8_Classical.top250 score



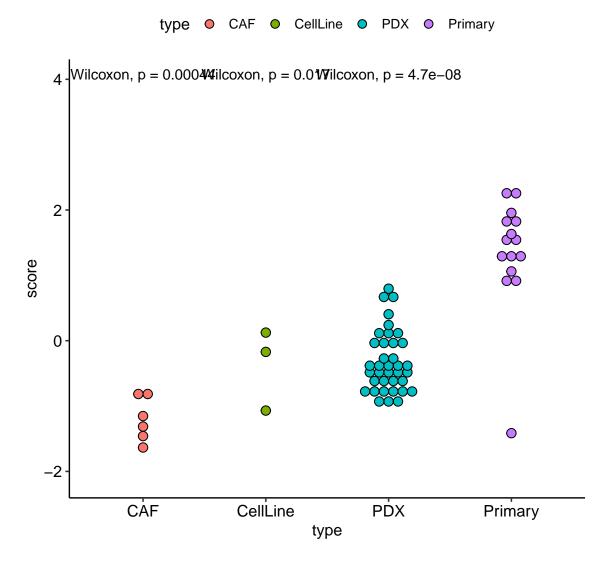
Moffitt.F8_Classical.top100 score



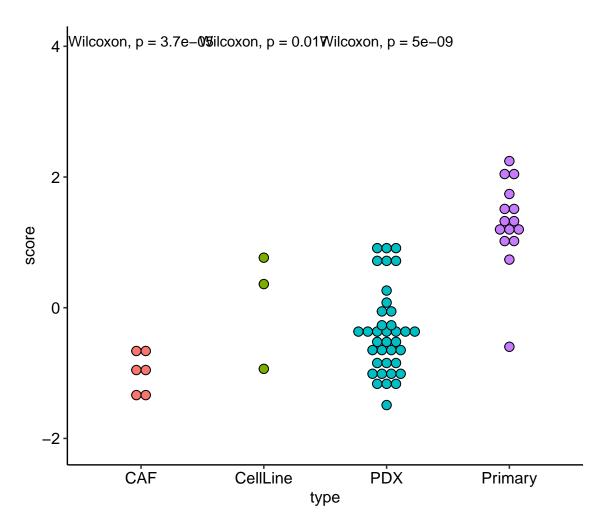
Moffitt.F9_Lung.top25 score



Moffitt.F9_Lung.top250 score



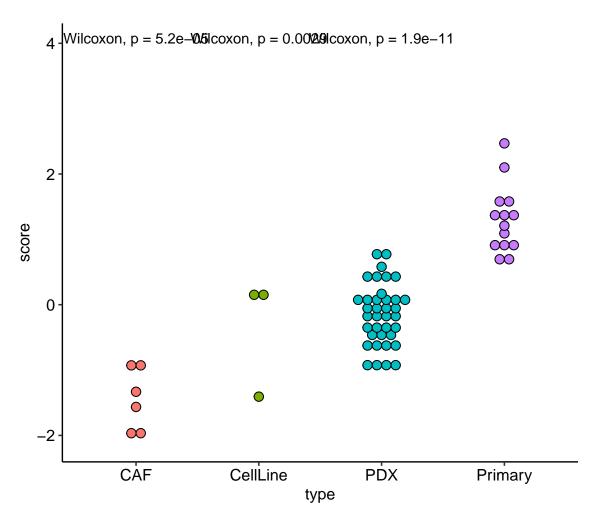
Moffitt.F9_Lung.top100 score



- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

Moffitt.F10.top25 score

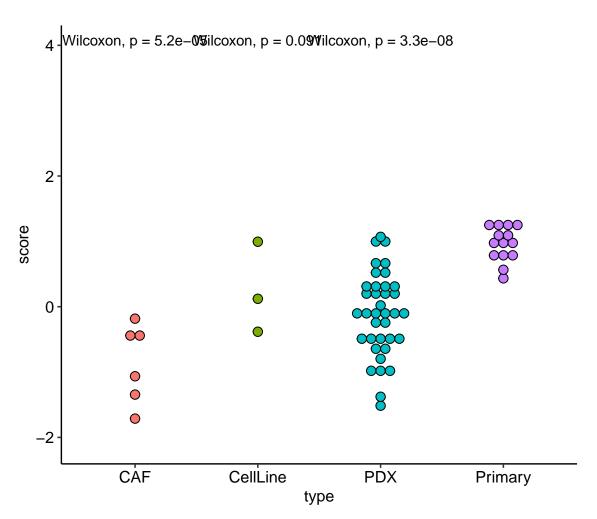
type ullet CAF ullet CellLine ullet PDX ullet Primary



- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

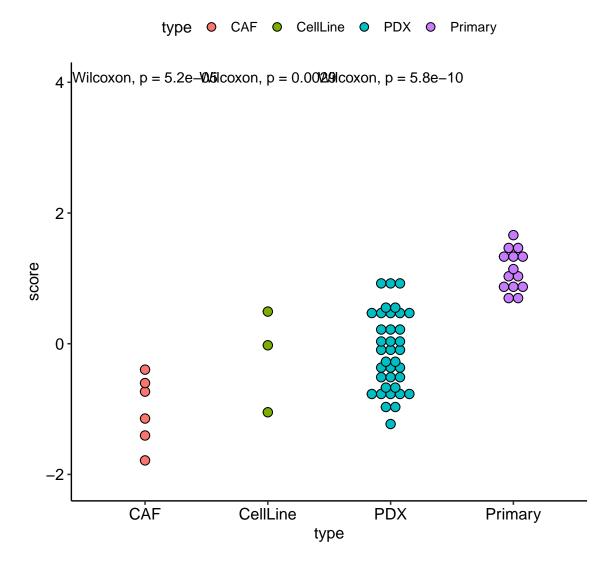
Moffitt.F10.top250 score

type ○ CAF ○ CellLine ○ PDX ○ Primary

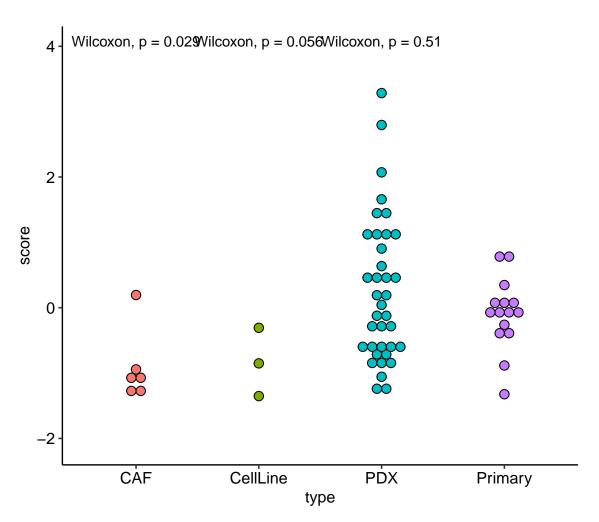


- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

Moffitt.F10.top100 score

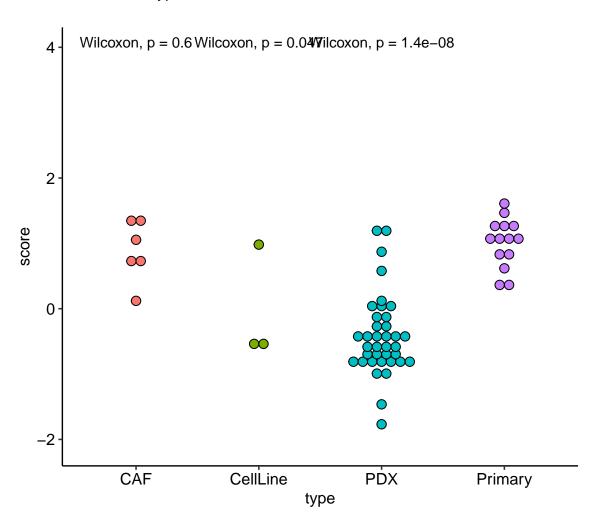


Moffitt.F11_Muscle.top25 score



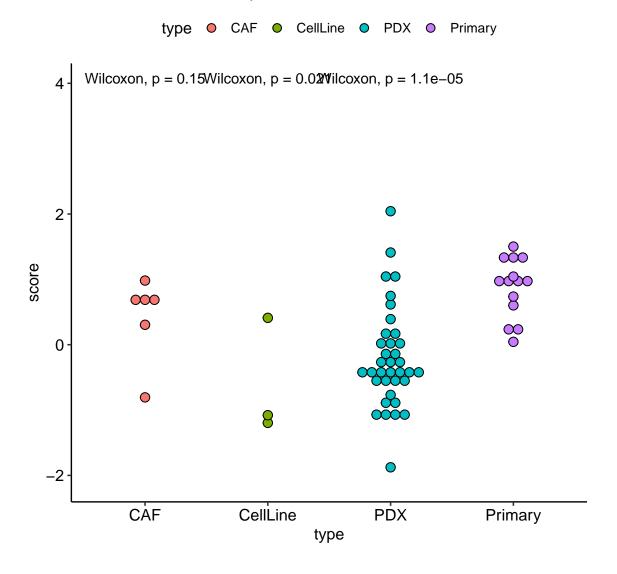
- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

Moffitt.F11_Muscle.top250 score

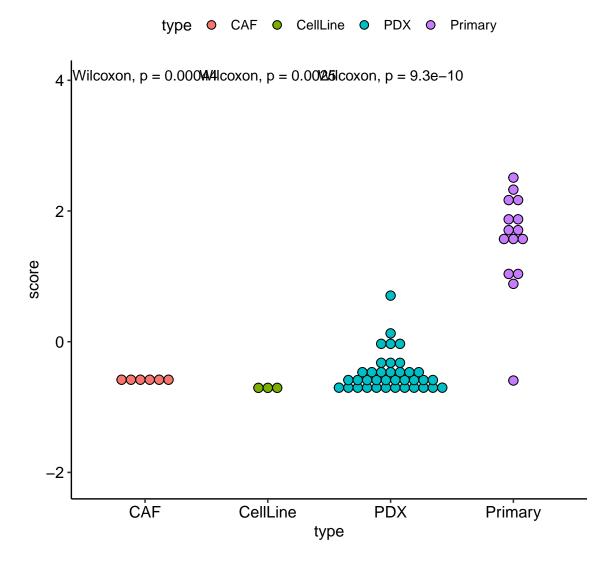


- ## Warning: Removed 2 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 2 rows containing non-finite values (stat_compare_means).

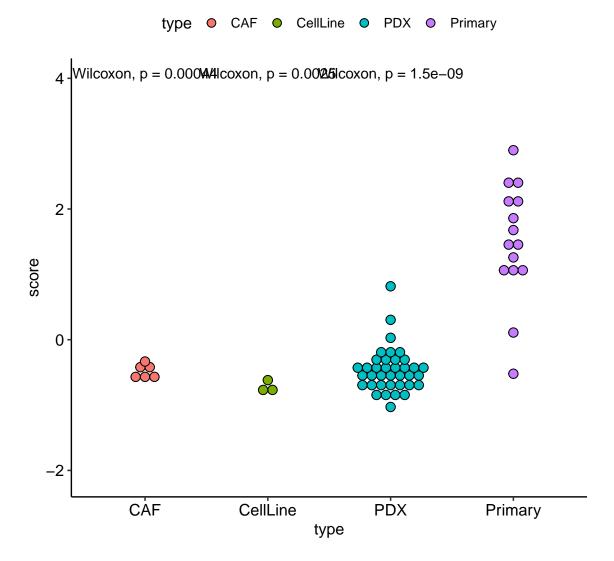
Moffitt.F11_Muscle.top100 score



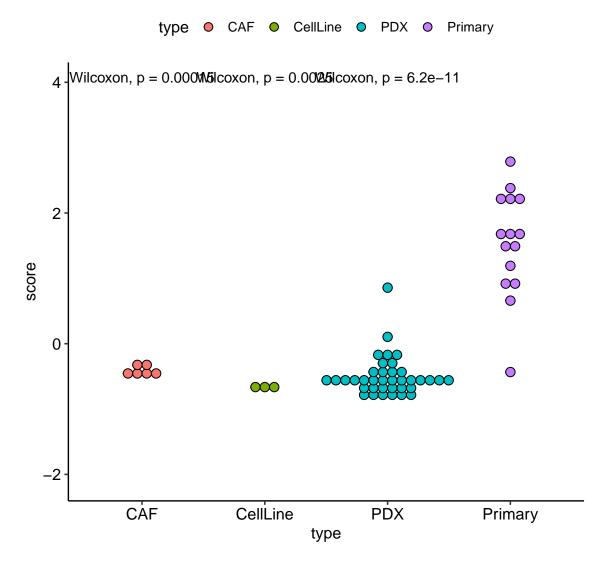
Moffitt.F12_Endocrine.top25 score



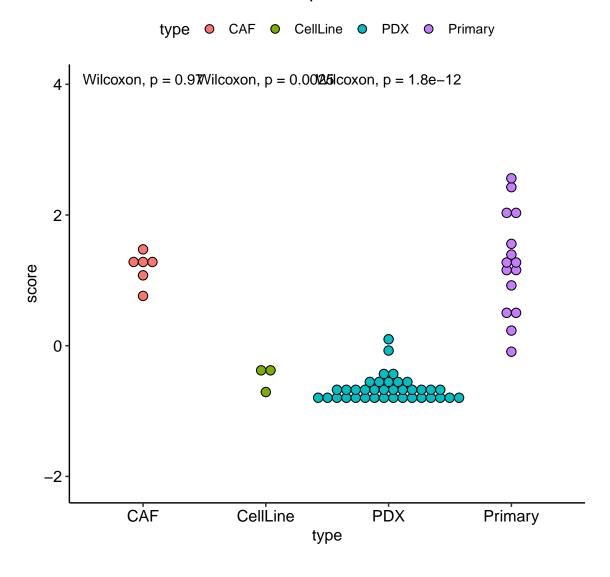
Moffitt.F12_Endocrine.top250 score



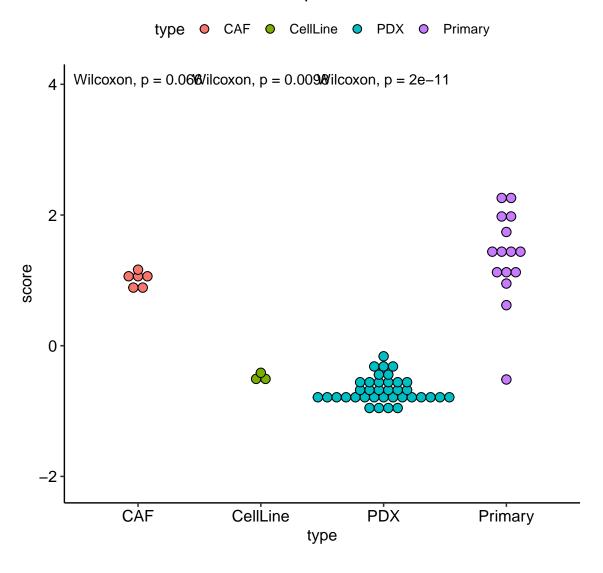
Moffitt.F12_Endocrine.top100 score



Moffitt.F13_NormalStroma.top25 score

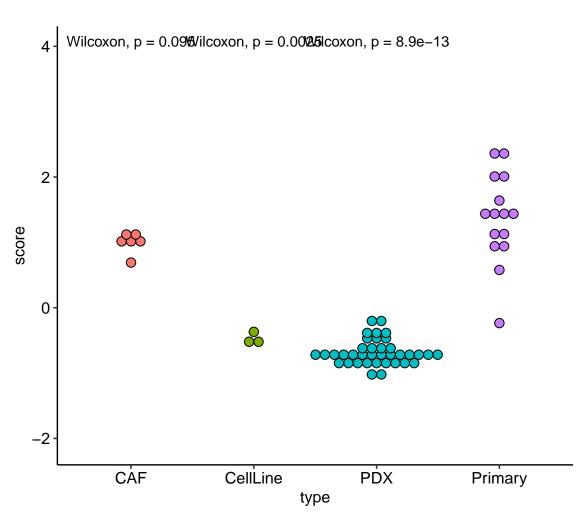


Moffitt.F13_NormalStroma.top250 score



Moffitt.F13_NormalStroma.top100 score

type O CAF O CellLine O PDX O Primary

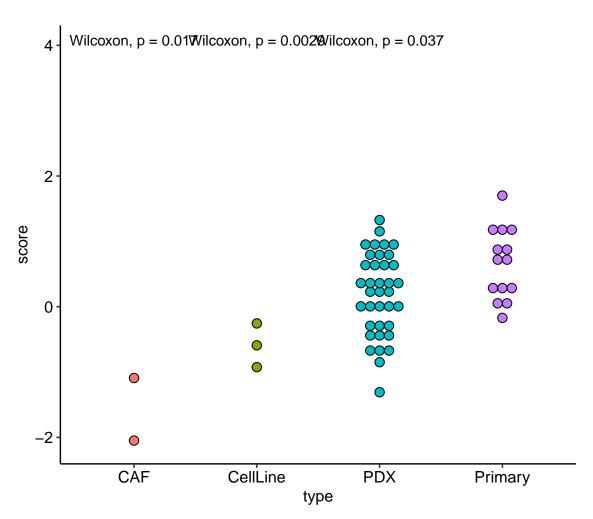


Warning: Removed 5 rows containing non-finite values (stat_bindot).

Warning: Removed 5 rows containing non-finite values (stat_compare_means).

Moffitt.F14.top25 score

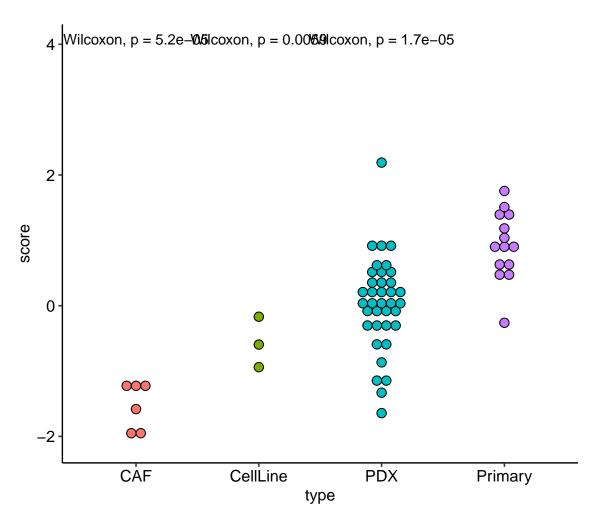
type O CAF O CellLine O PDX O Primary



- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

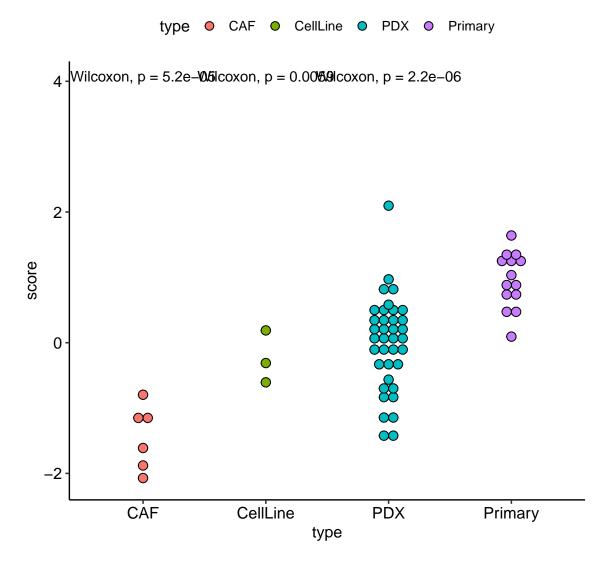
Moffitt.F14.top250 score

type • CAF • CellLine • PDX • Primary

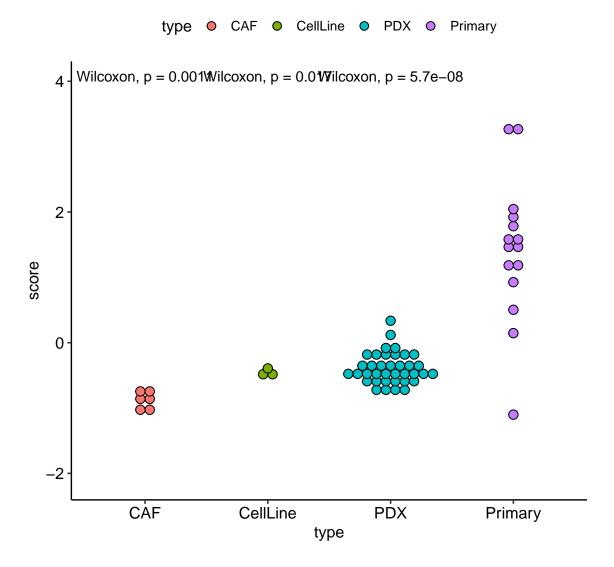


- ## Warning: Removed 1 rows containing non-finite values (stat_bindot).
- ## Warning: Removed 1 rows containing non-finite values (stat_compare_means).

Moffitt.F14.top100 score

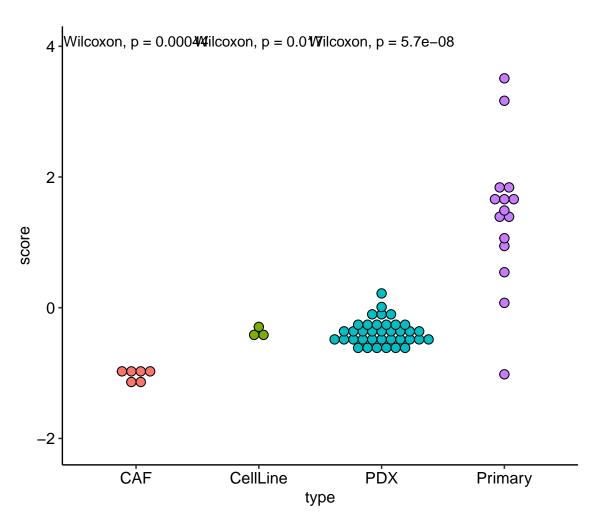


CIBERSORT.B.cells.naive score



CIBERSORT.B.cells.memory score

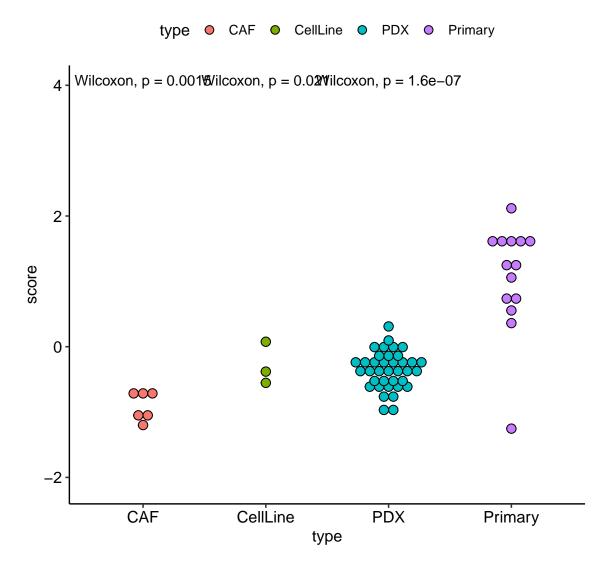
type O CAF O CellLine O PDX O Primary



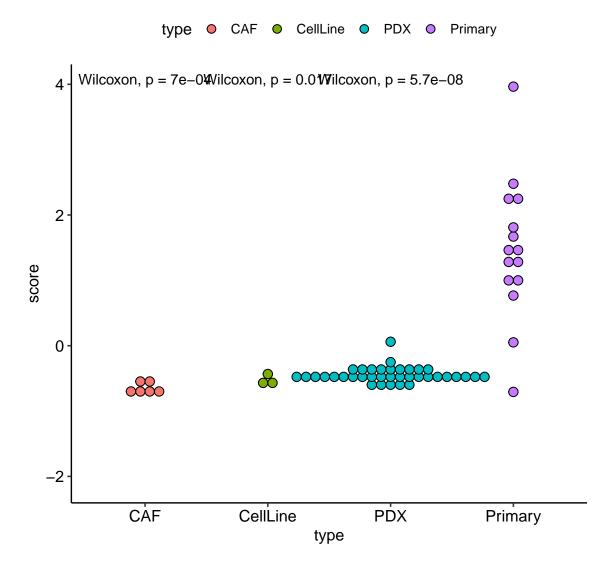
Warning: Removed 1 rows containing non-finite values (stat_bindot).

Warning: Removed 1 rows containing non-finite values (stat_compare_means).

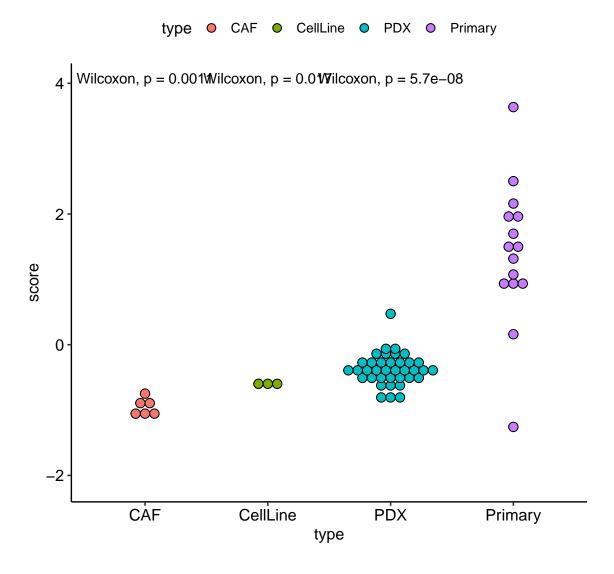
CIBERSORT.Plasma.cells score



CIBERSORT.T.cells.CD8 score

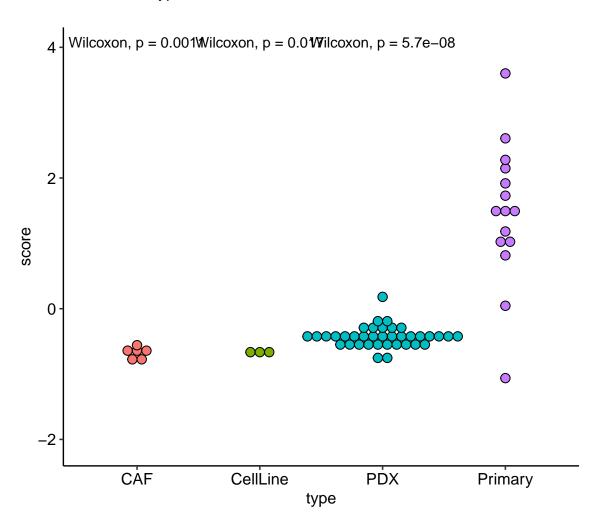


CIBERSORT.T.cells.CD4.naive score



CIBERSORT.T.cells.CD4.memory.resting score

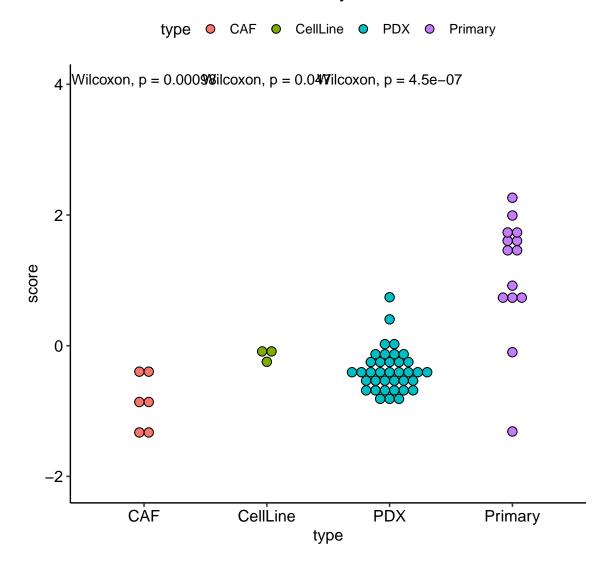
type O CAF O CellLine O PDX O Primary



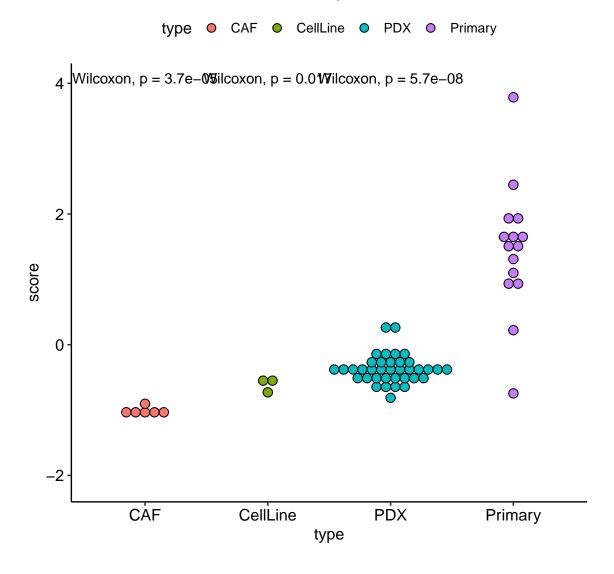
Warning: Removed 1 rows containing non-finite values (stat_bindot).

Warning: Removed 1 rows containing non-finite values (stat_compare_means).

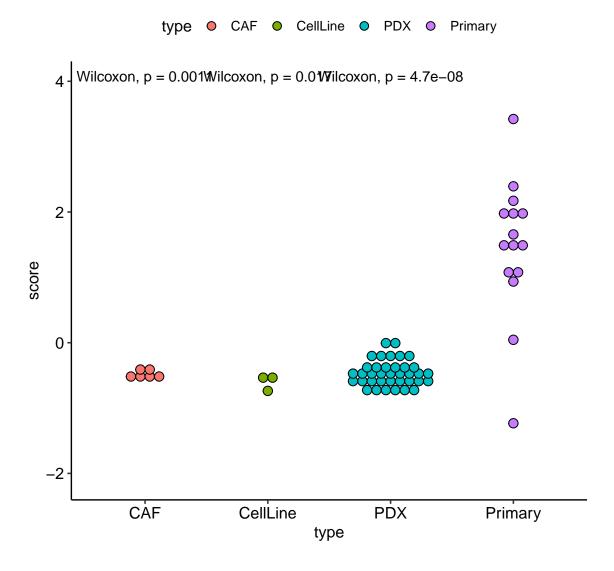
CIBERSORT.T.cells.CD4.memory.activated score



CIBERSORT.T.cells.follicular.helper score

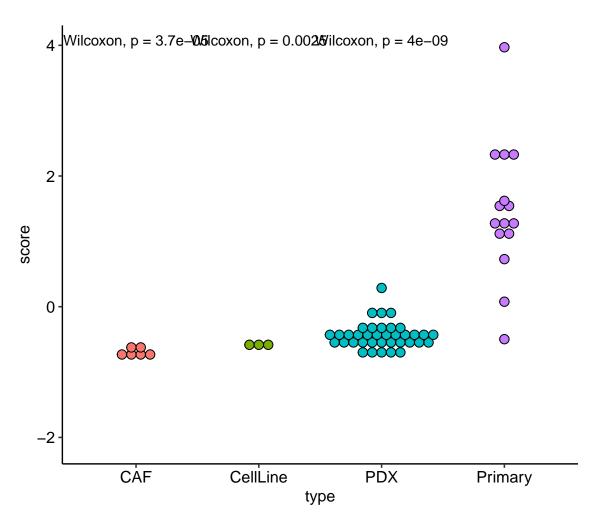


CIBERSORT.T.cells.regulatory..Tregs. score



CIBERSORT.T.cells.gamma.delta score

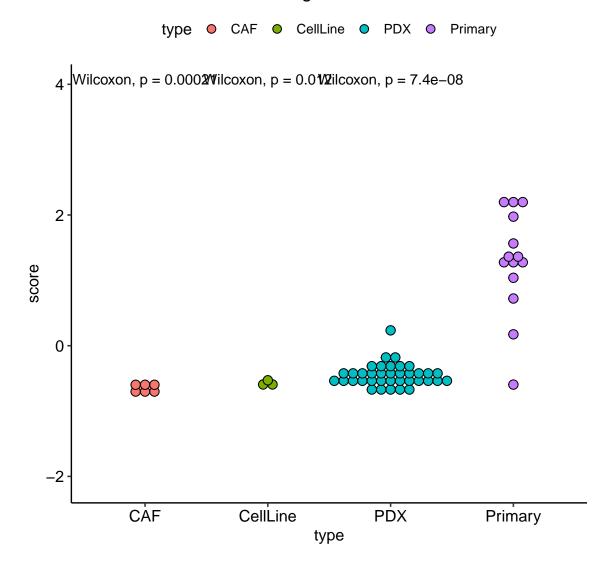




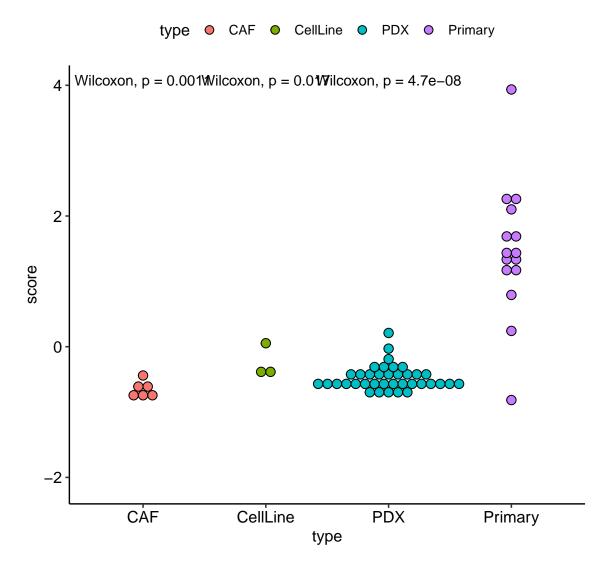
Warning: Removed 1 rows containing non-finite values (stat_bindot).

Warning: Removed 1 rows containing non-finite values (stat_compare_means).

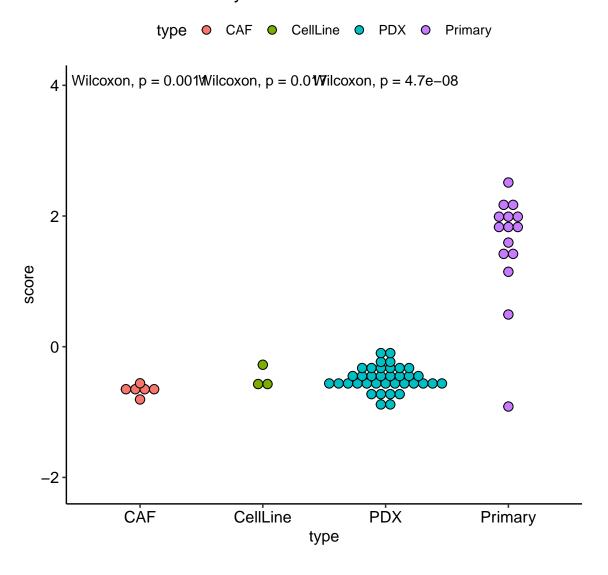
CIBERSORT.NK.cells.resting score



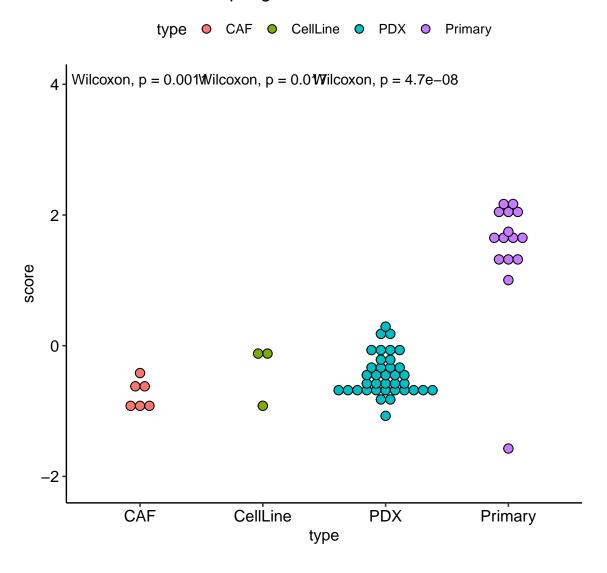
CIBERSORT.NK.cells.activated score



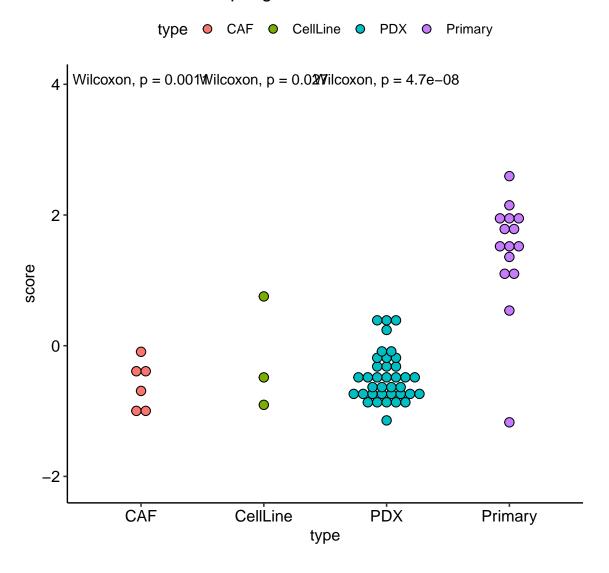
CIBERSORT.Monocytes score



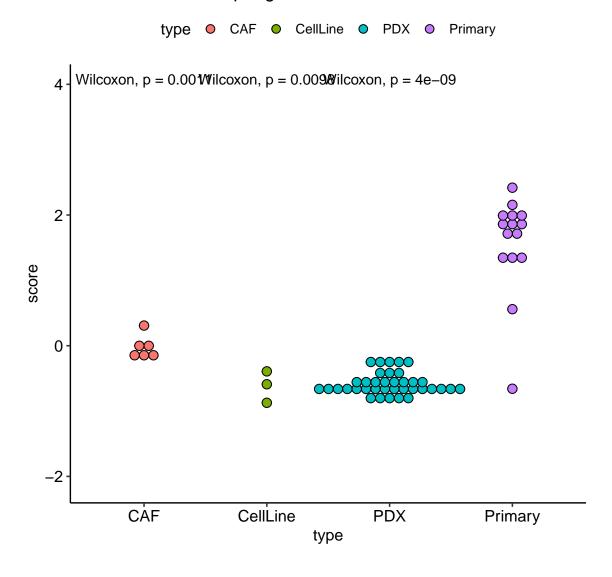
CIBERSORT.Macrophages.M0 score



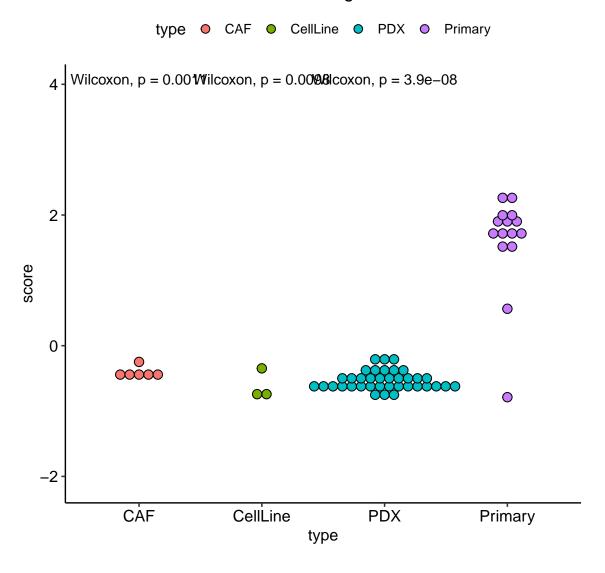
CIBERSORT.Macrophages.M1 score



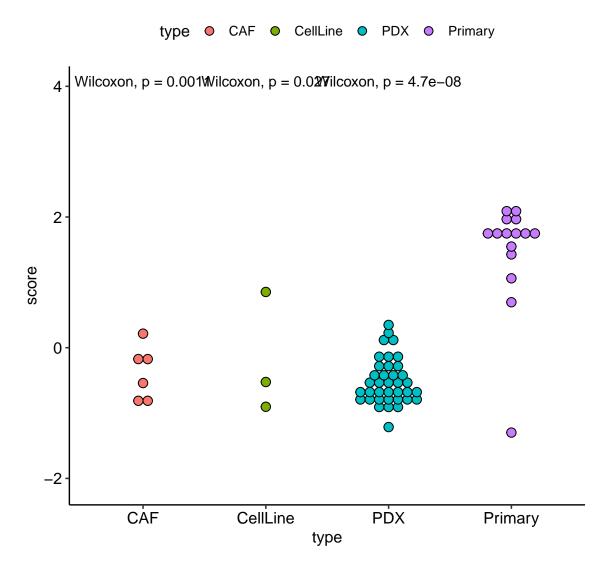
CIBERSORT.Macrophages.M2 score



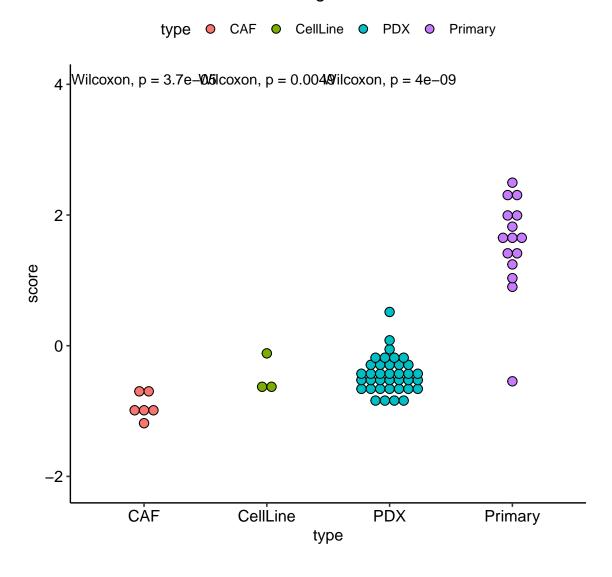
CIBERSORT.Dendritic.cells.resting score



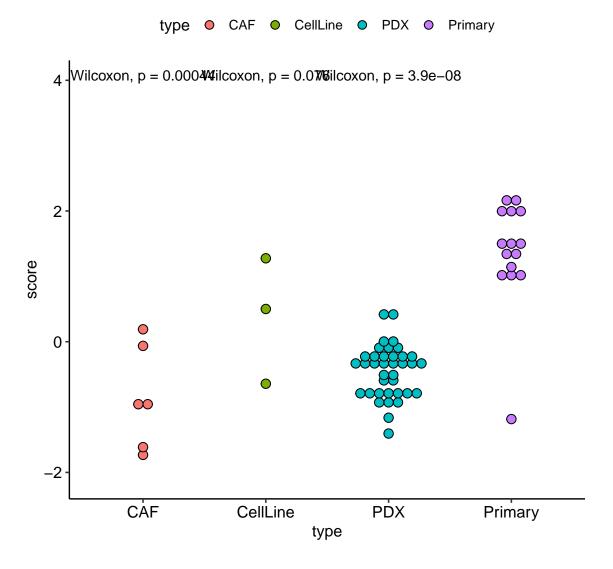
CIBERSORT.Dendritic.cells.activated score



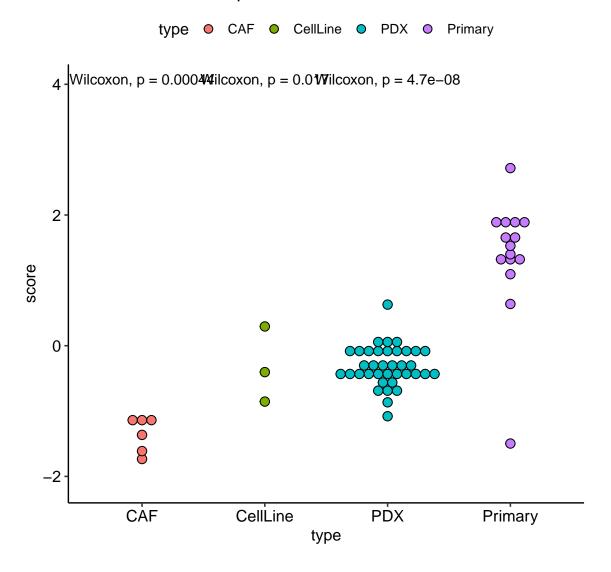
CIBERSORT.Mast.cells.resting score



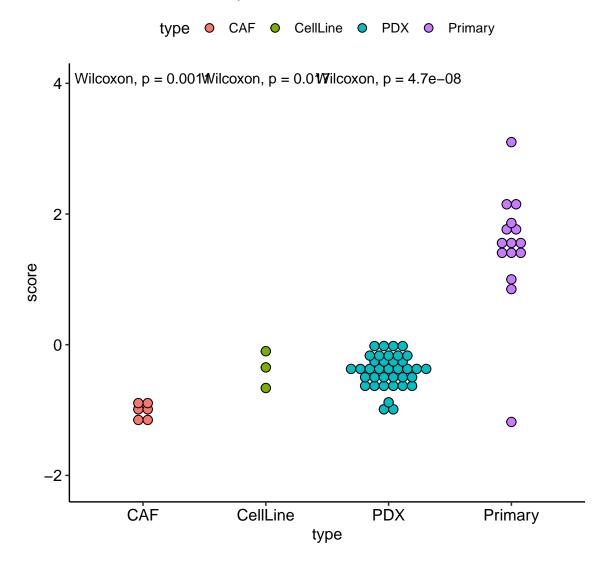
CIBERSORT.Mast.cells.activated score



CIBERSORT. Eosinophils score



CIBERSORT.Neutrophils score



Notta.BasalA score

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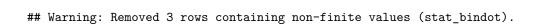
CAF

0

-2

4 - Wilcoxon, p = 0.001 Wilcoxon, p = 0.7 Wilcoxon, p = 0.00039

type O CAF O CellLine O PDX O Primary



CellLine

PDX

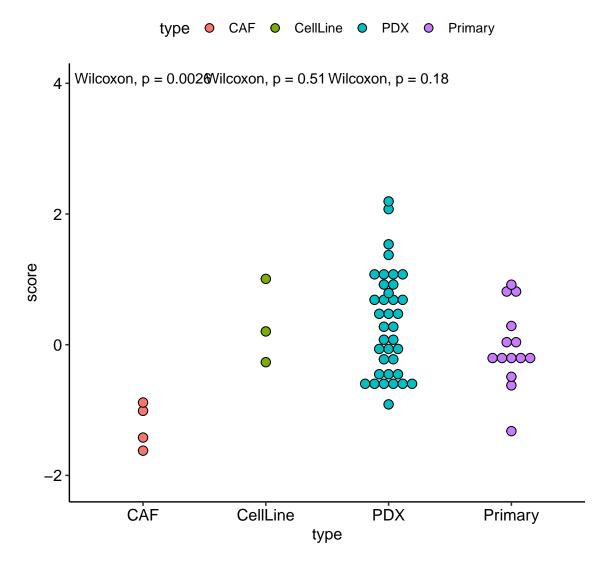
Warning: Removed 3 rows containing non-finite values (stat_compare_means).

type

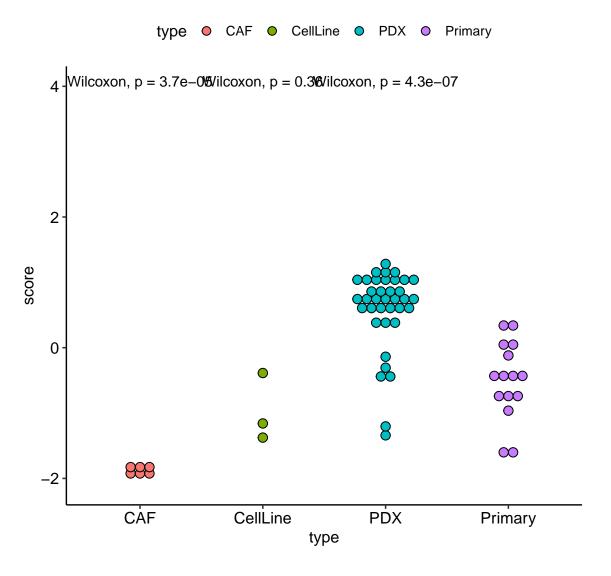
 \bigcirc

Primary

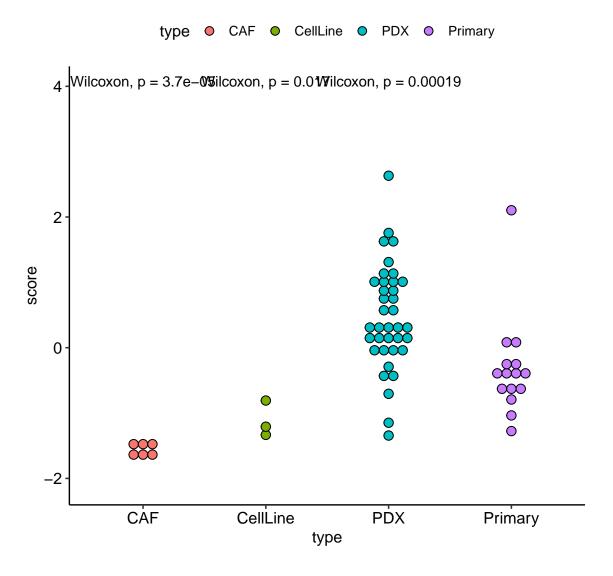
Notta.BasalB score



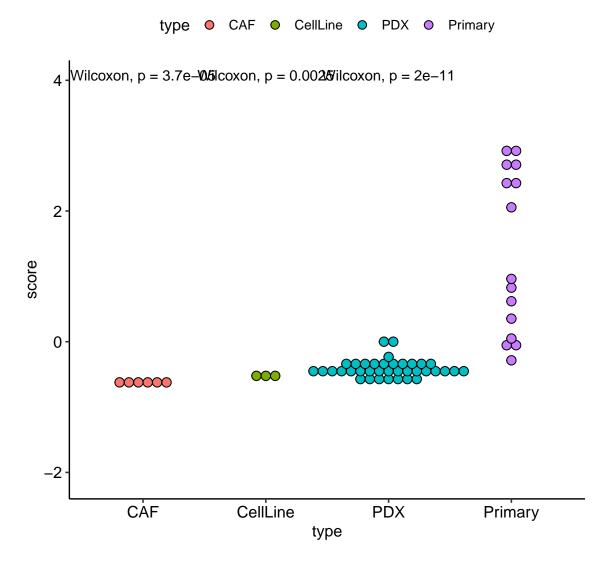
Notta.ClassicalA score



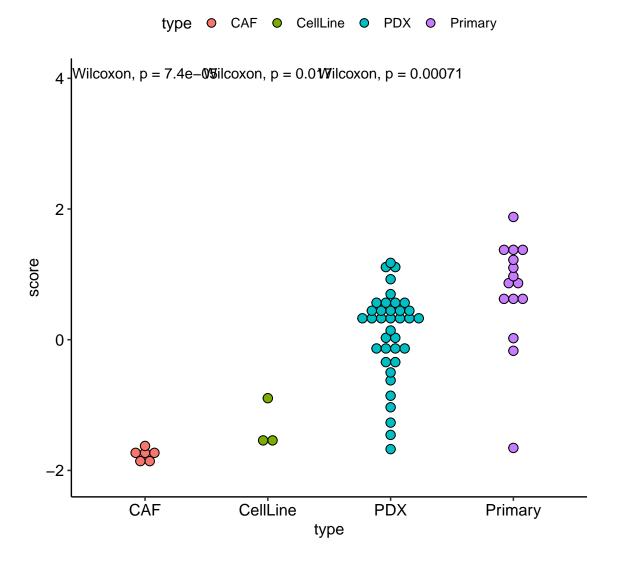
Notta.ClassicalB score



ADEX_unique score

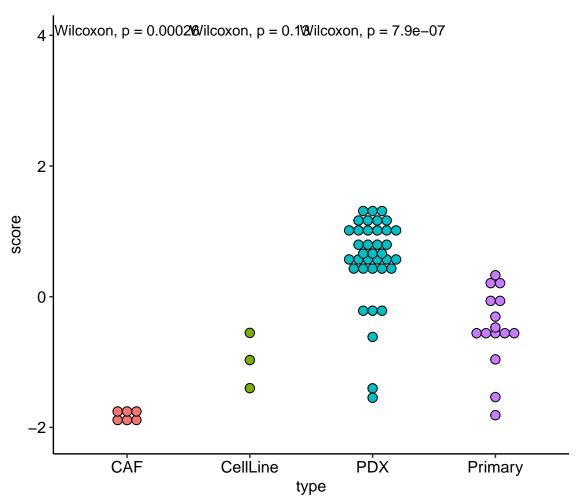


Immunogenic_unique score



Progenitor_unique score

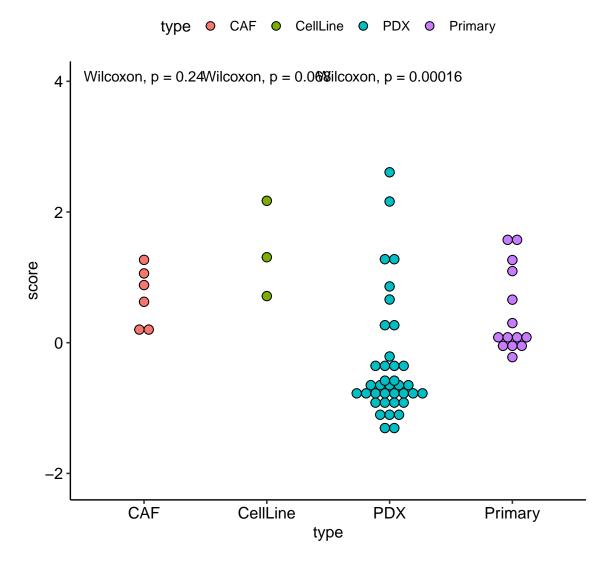
type • CAF • CellLine • PDX • Primary



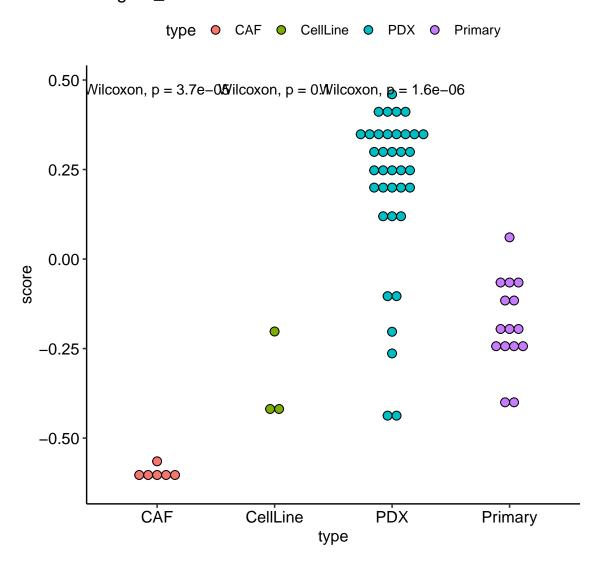
Warning: Removed 1 rows containing non-finite values (stat_bindot).

Warning: Removed 1 rows containing non-finite values (stat_compare_means).

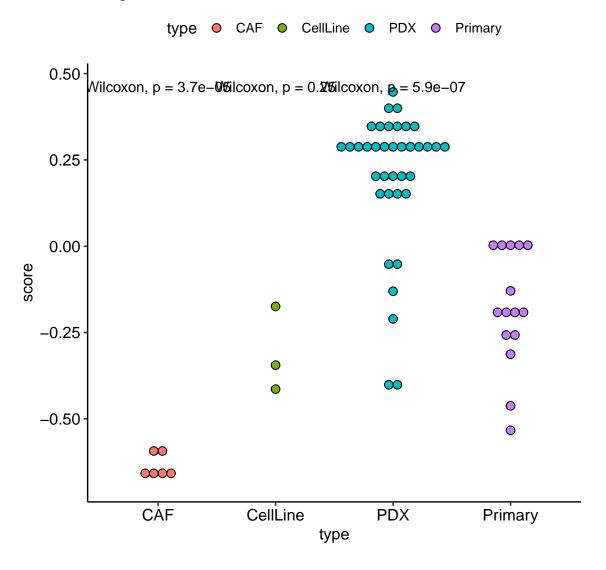
Squamous_unique score



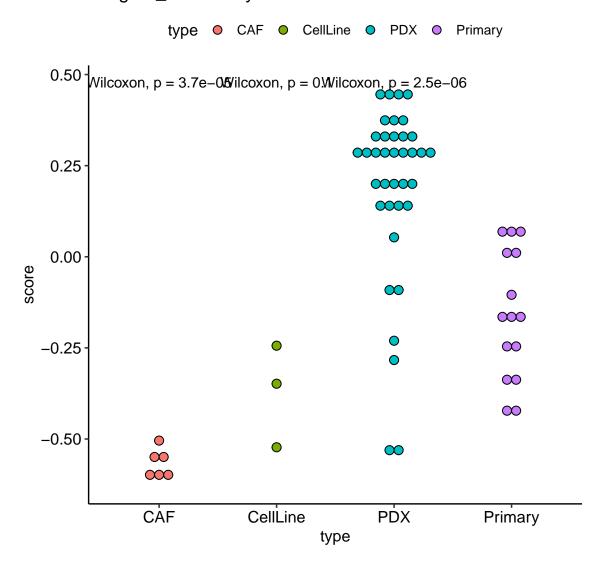
molgrad_PDX score



molgrad_Puleo score

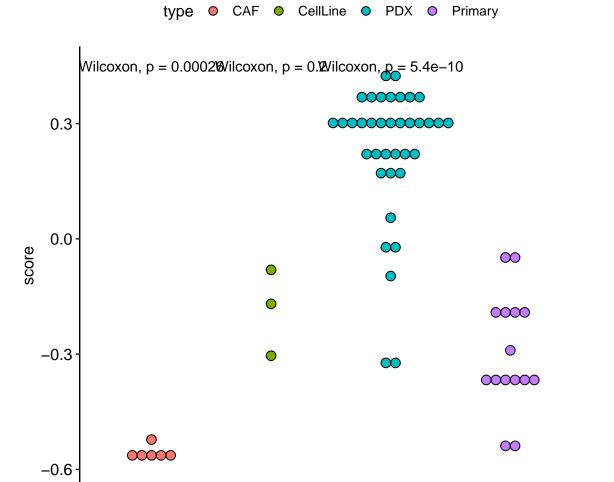


molgrad_ICGCarray score



molgrad_ICGCrnaseq score

CAF



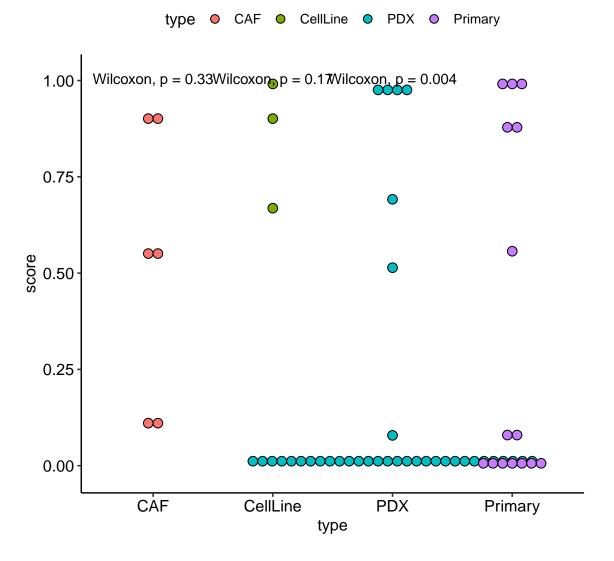
CellLine

PDX

type

Primary

purIST score



molgrad_scaled score

