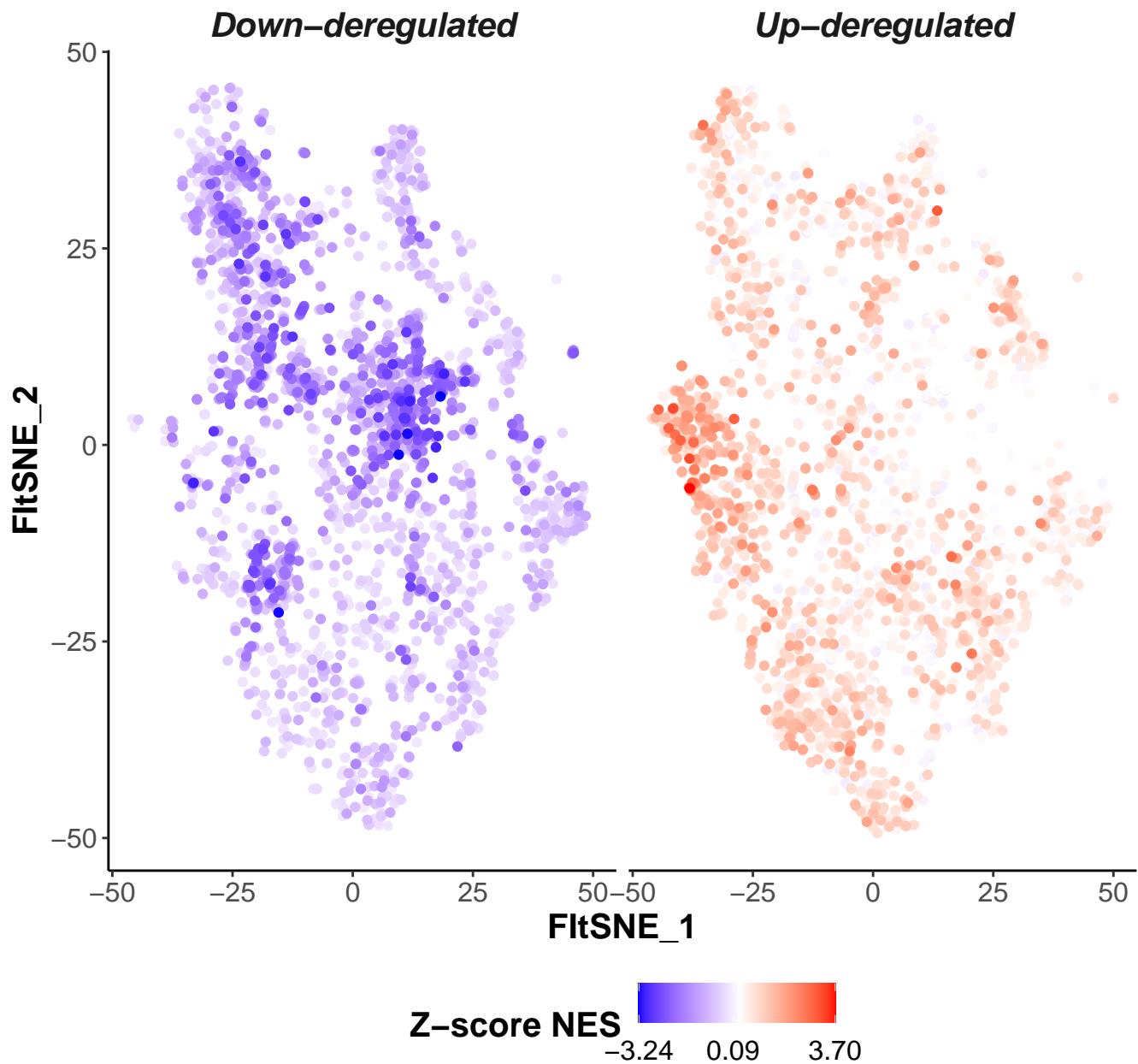
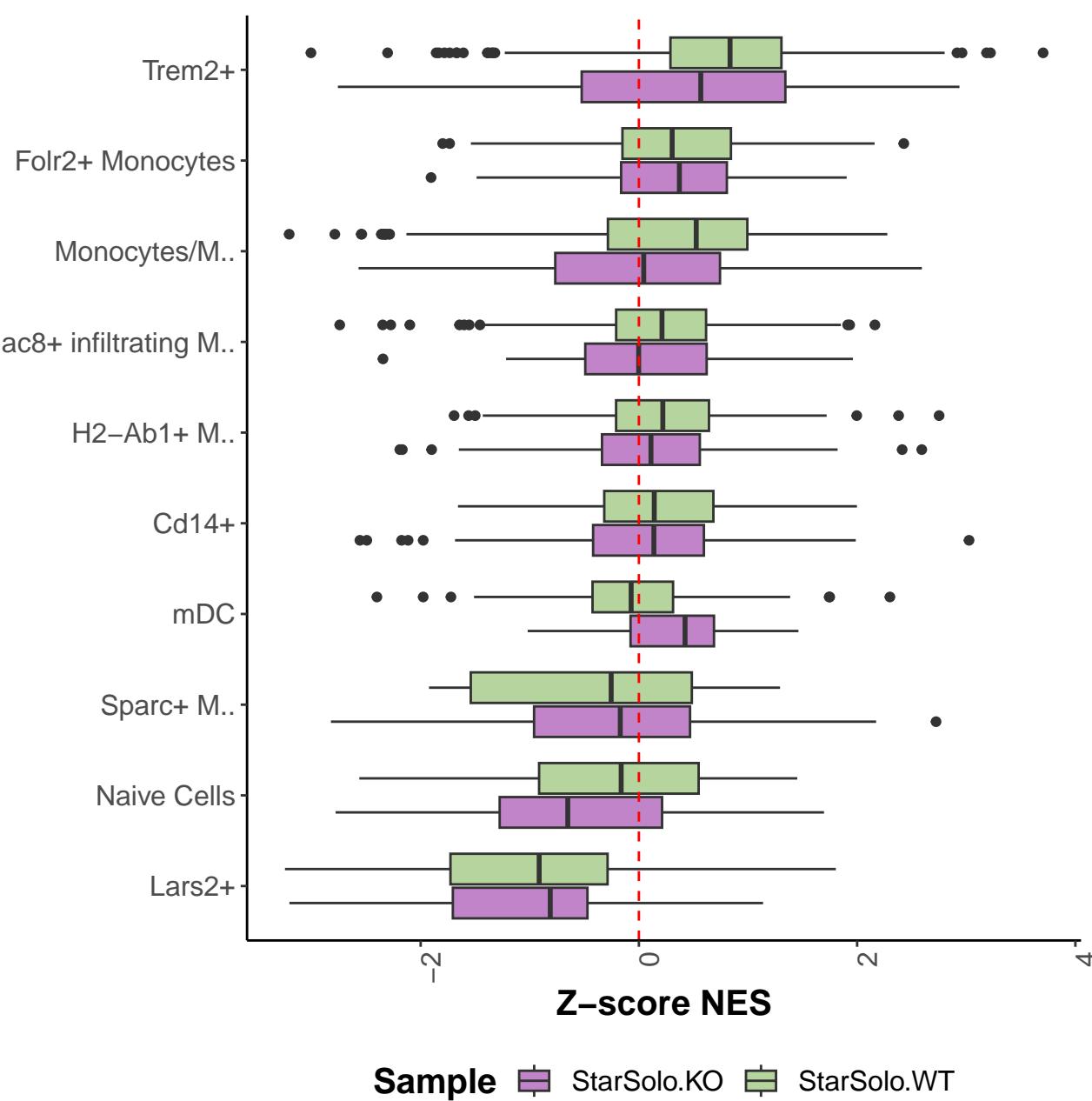


HALLMARKADIPOGENESIS

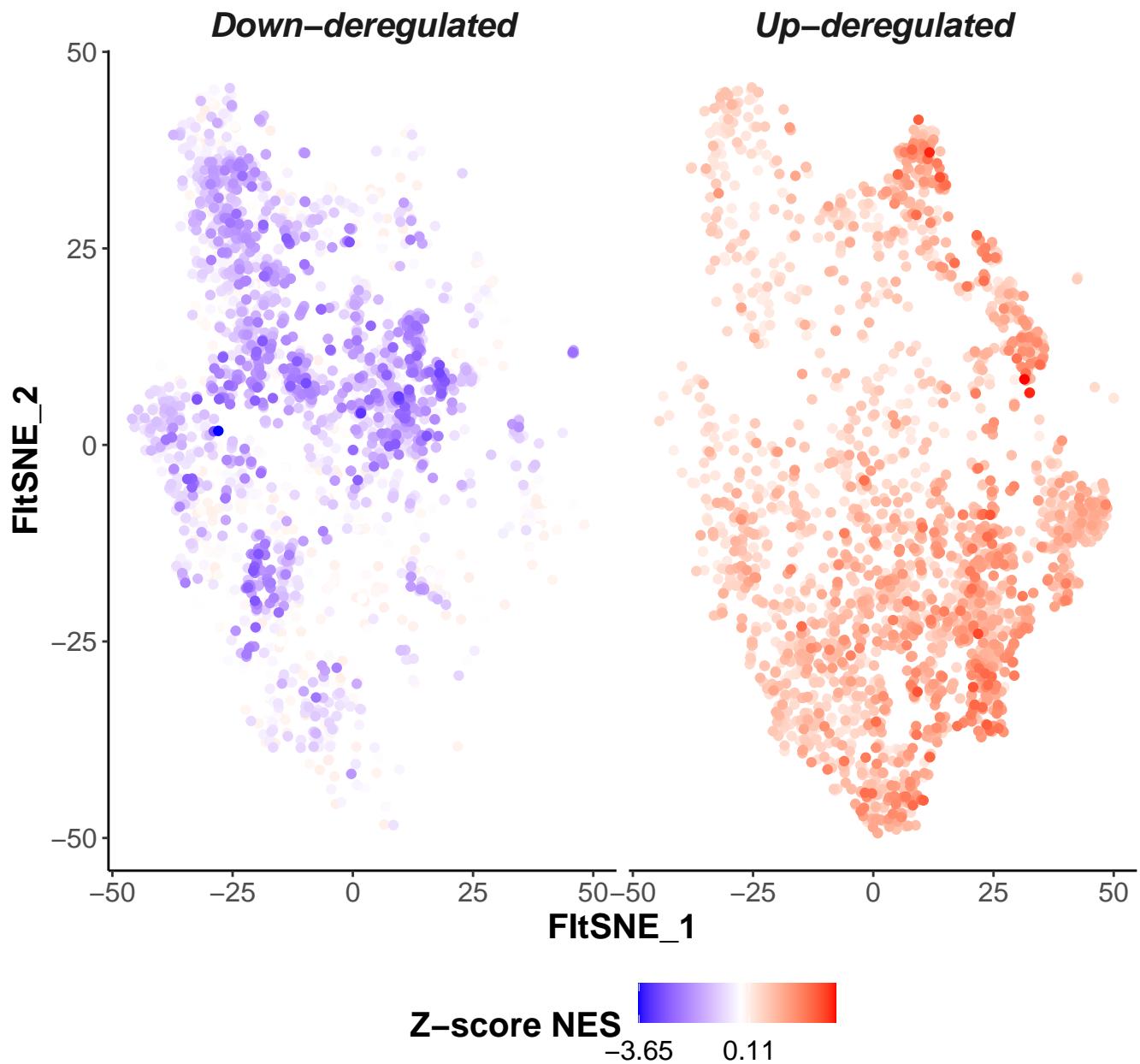


HALLMARK_ADIPOGENESIS

Subtype

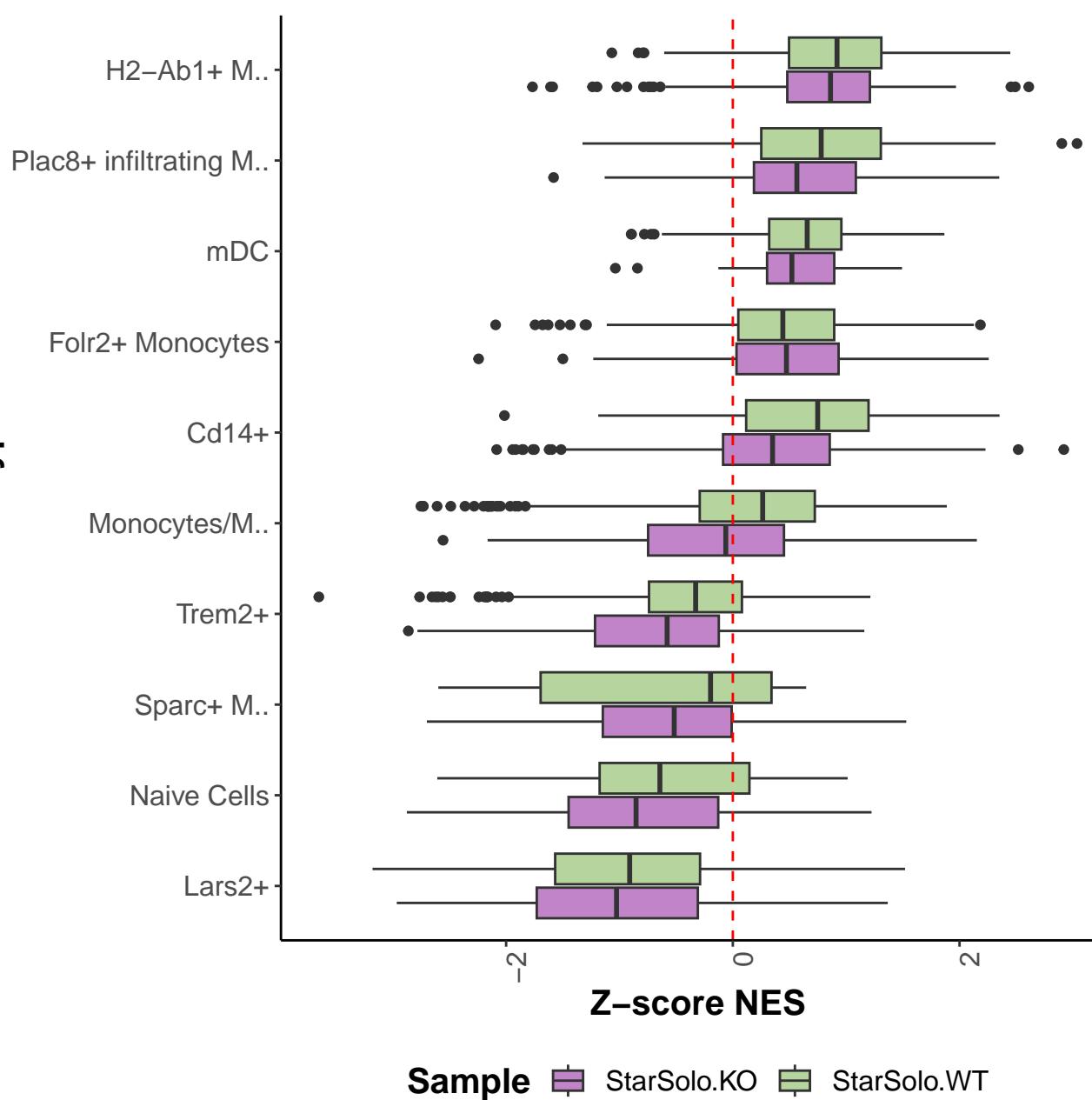


HALLMARK_ALLOGRAFT_REJECTION

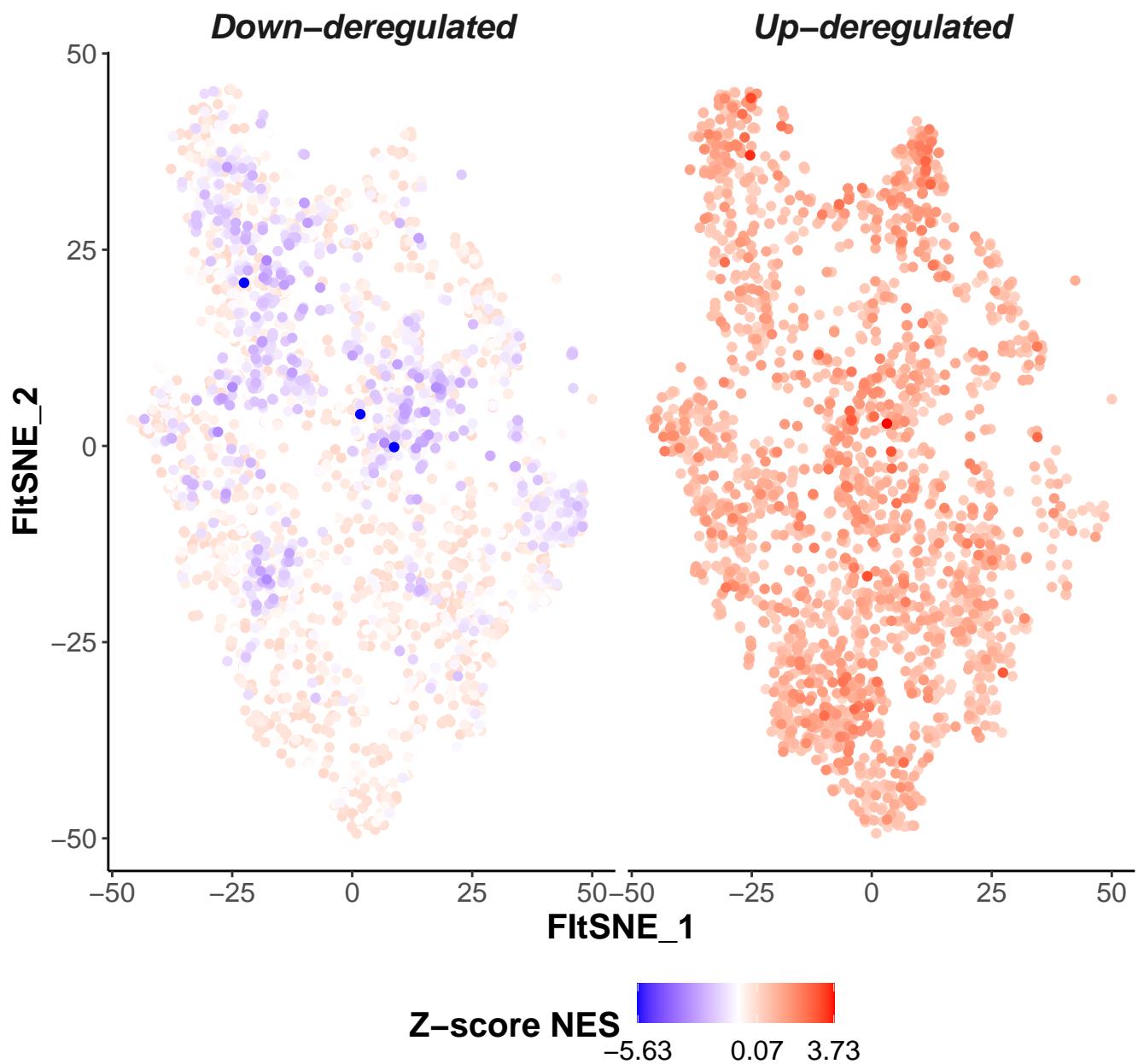


HALLMARK_ALLOGRAFT_REJECTION

Subtype

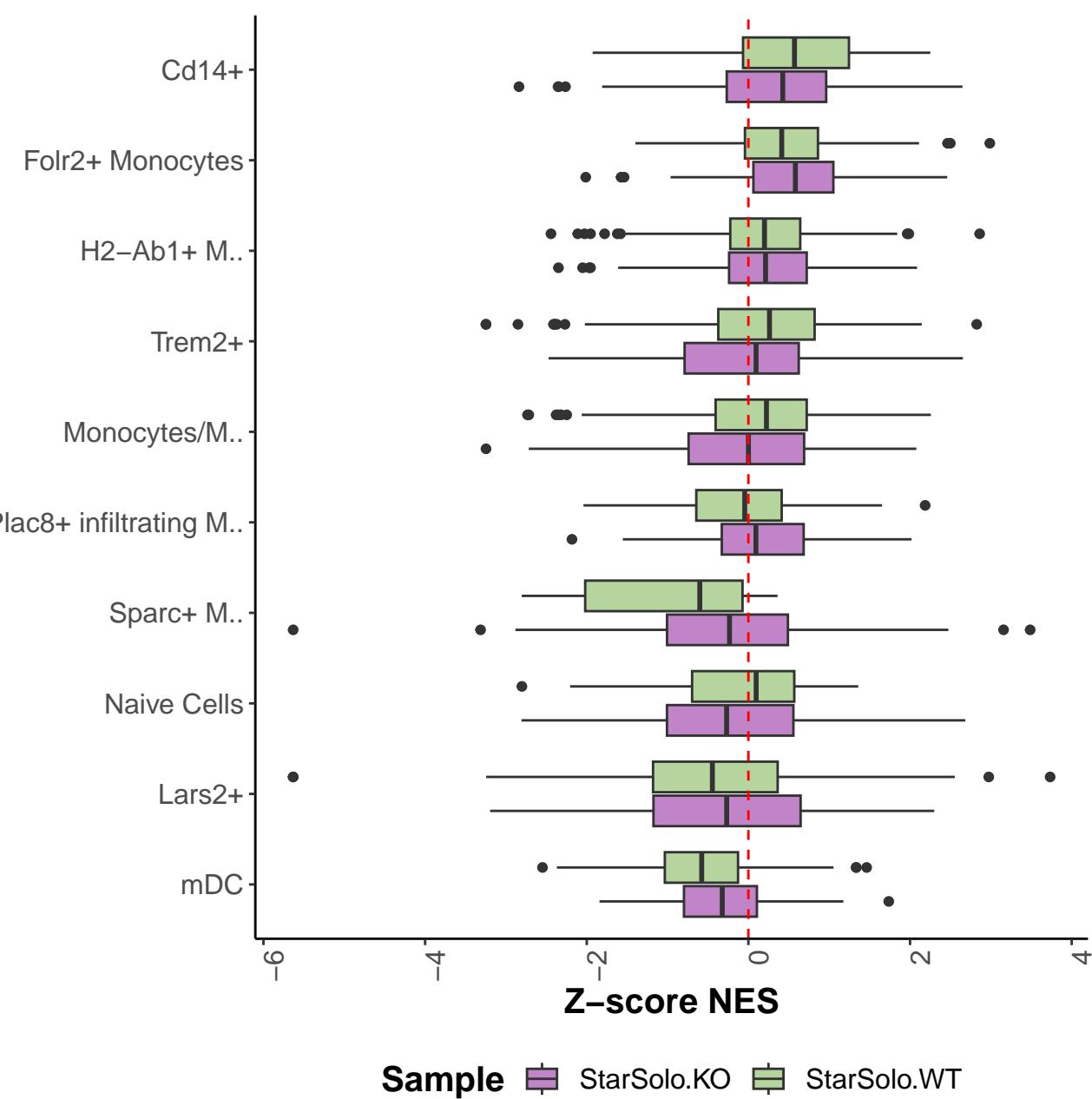


HALLMARK_ANDROGEN_RESPONSE

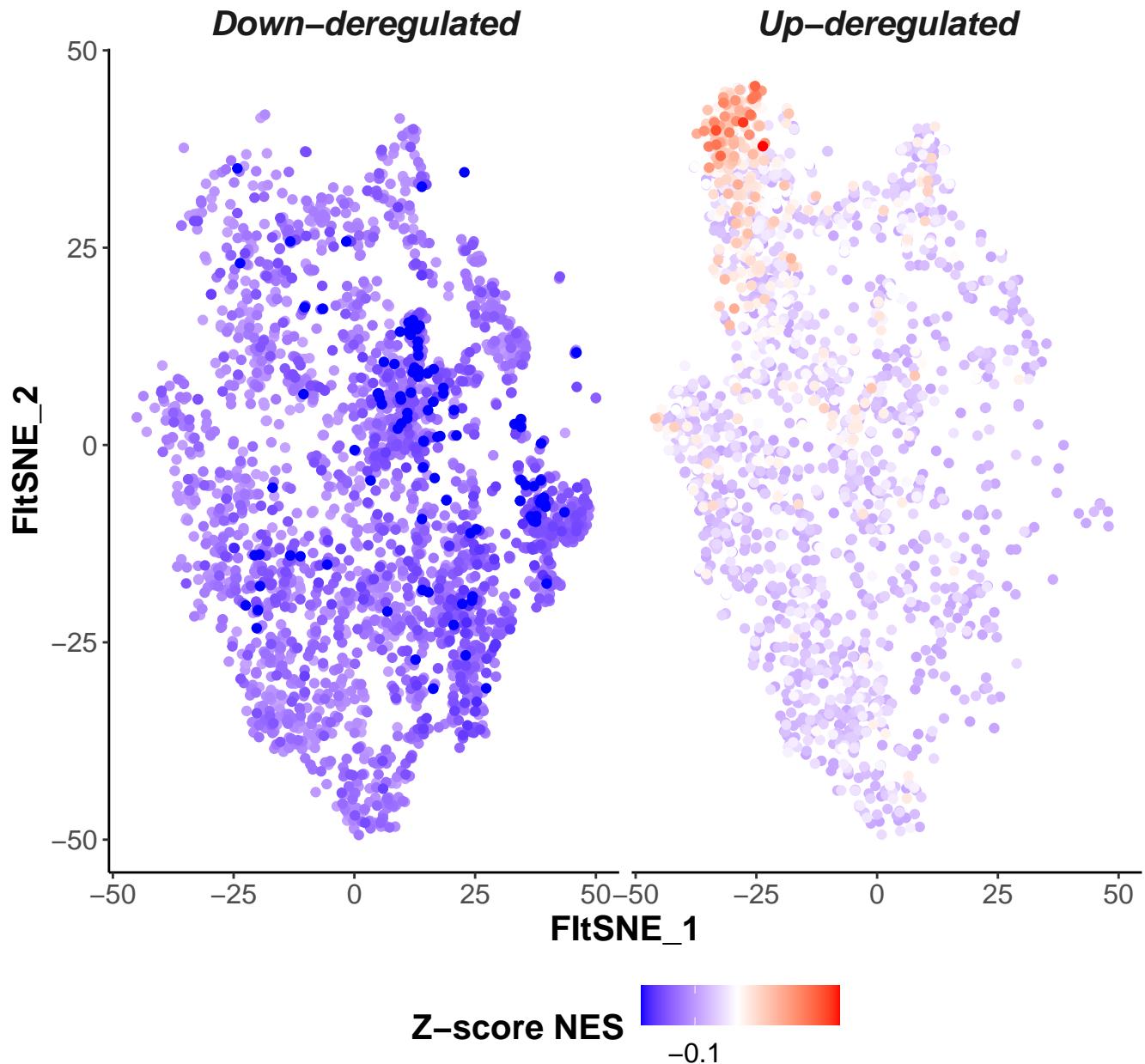


HALLMARK_ANDROGEN_RESPONSE

Subtype

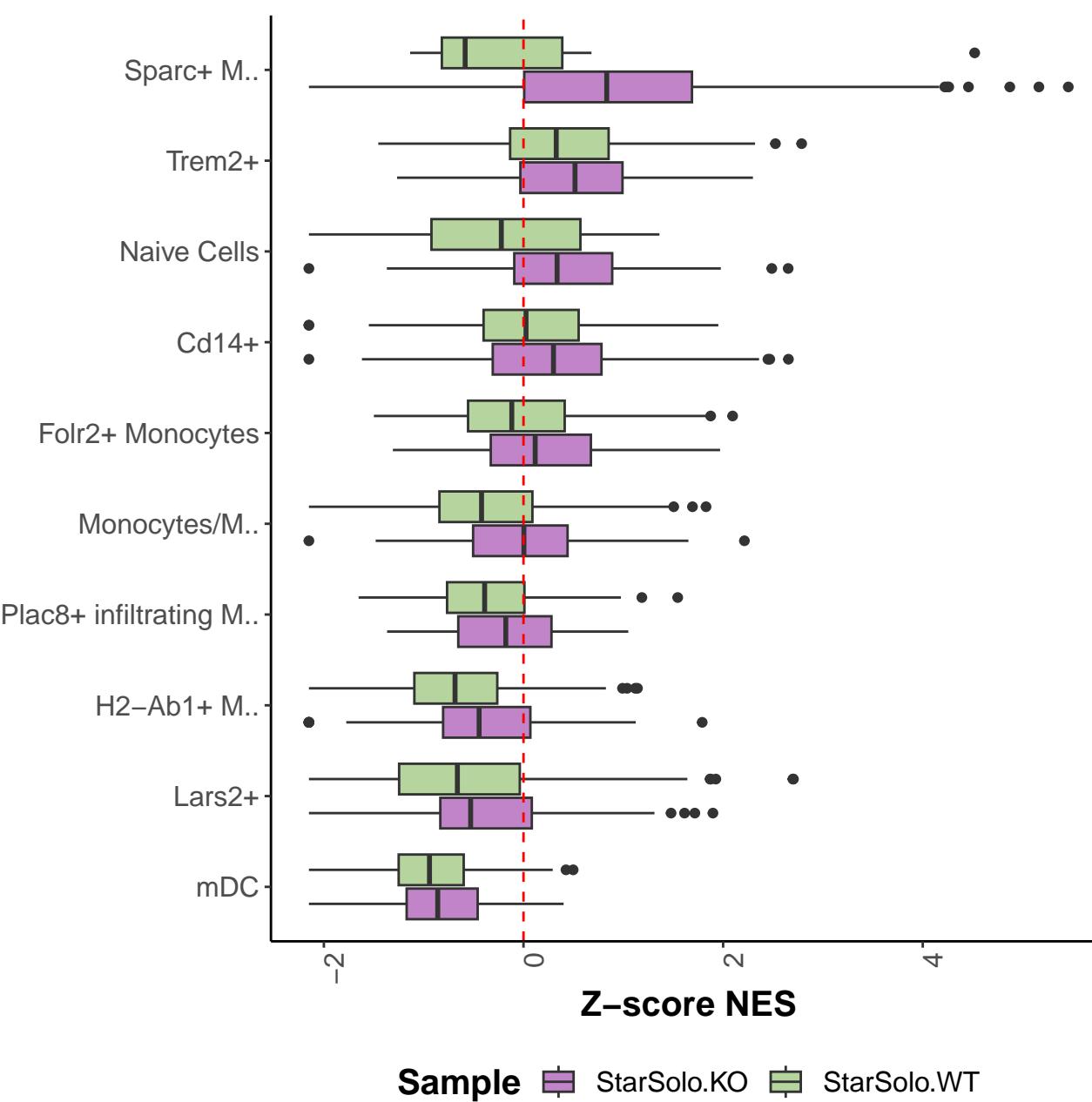


HALLMARK_ANGIOGENESIS



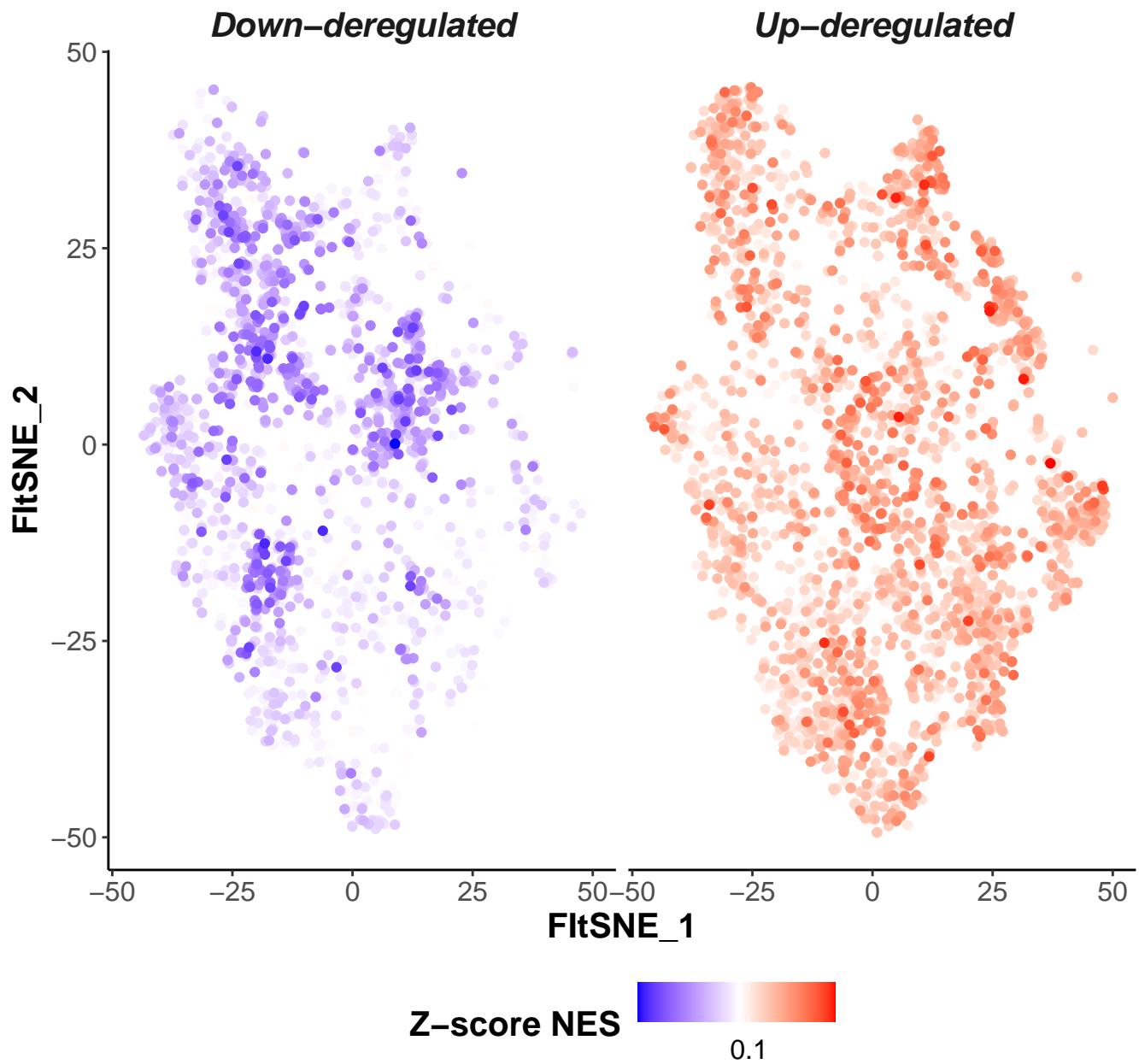
HALLMARK_ANGIOGENESIS

Subtype



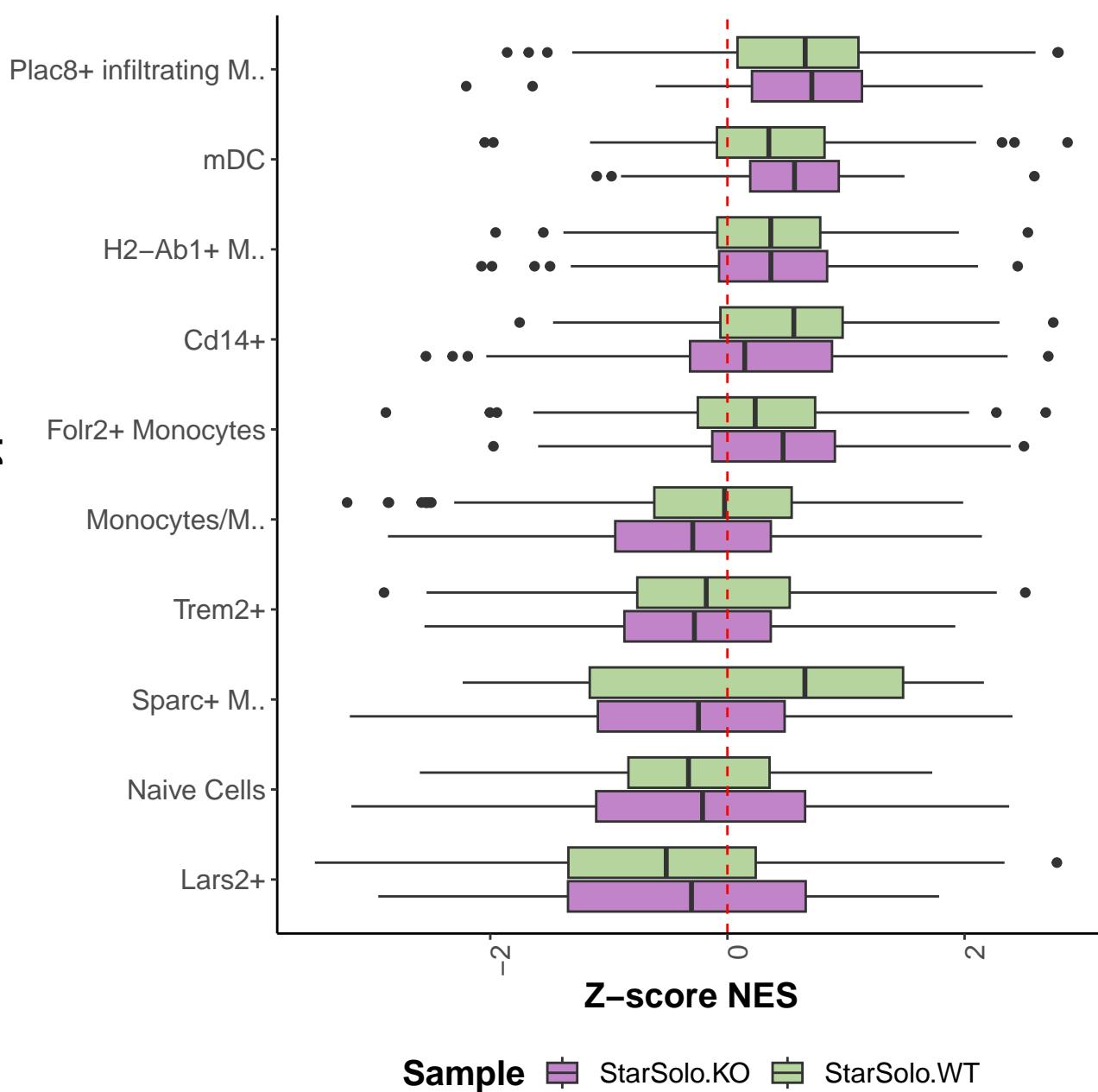
Sample ■ StarSolo.KO ■ StarSolo.WT

HALLMARK_APICAL_JUNCTION

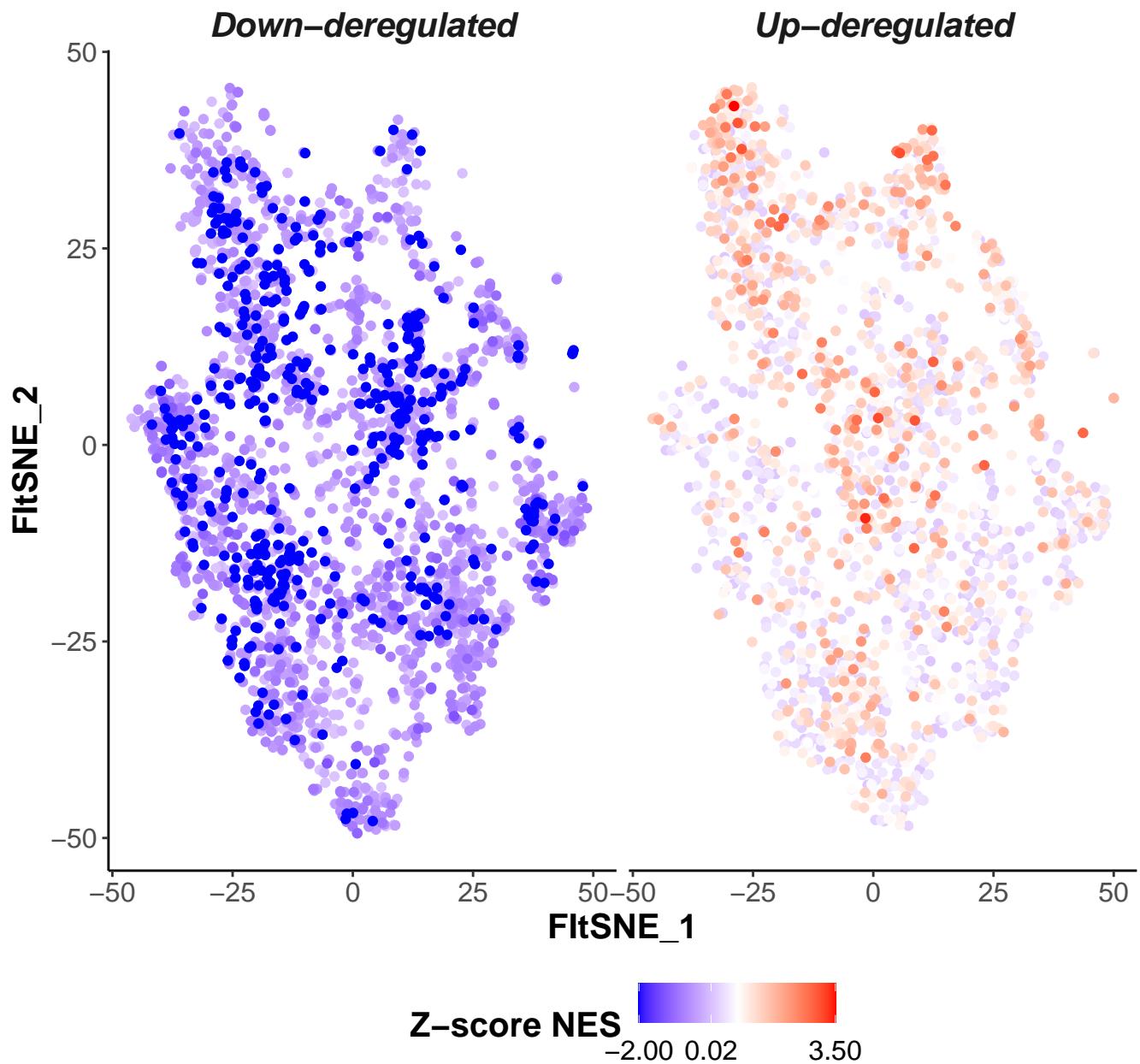


HALLMARK_APICAL_JUNCTION

Subtype

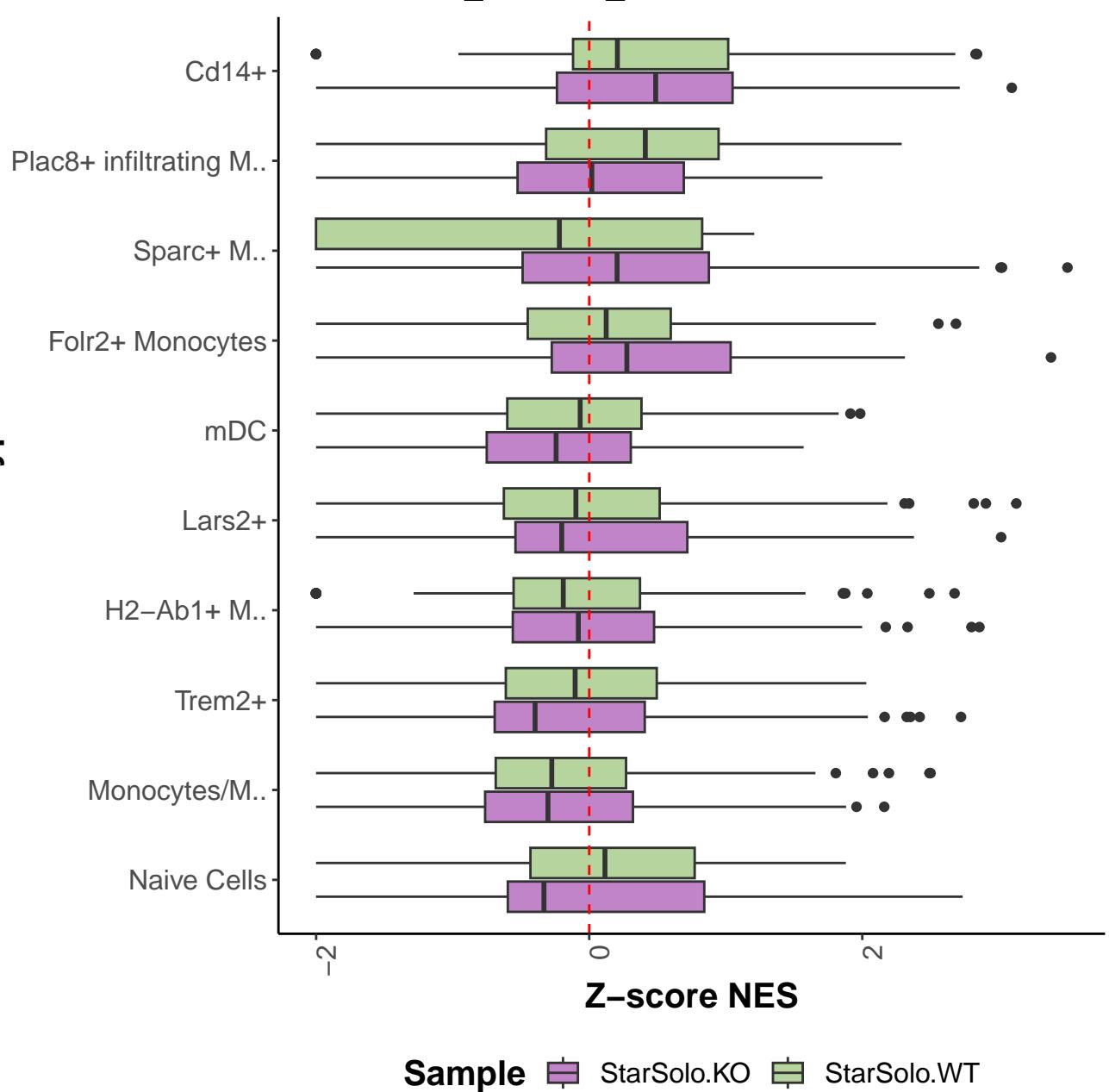


HALLMARK_APICAL_SURFACE



HALLMARK_APICAL_SURFACE

Subtype

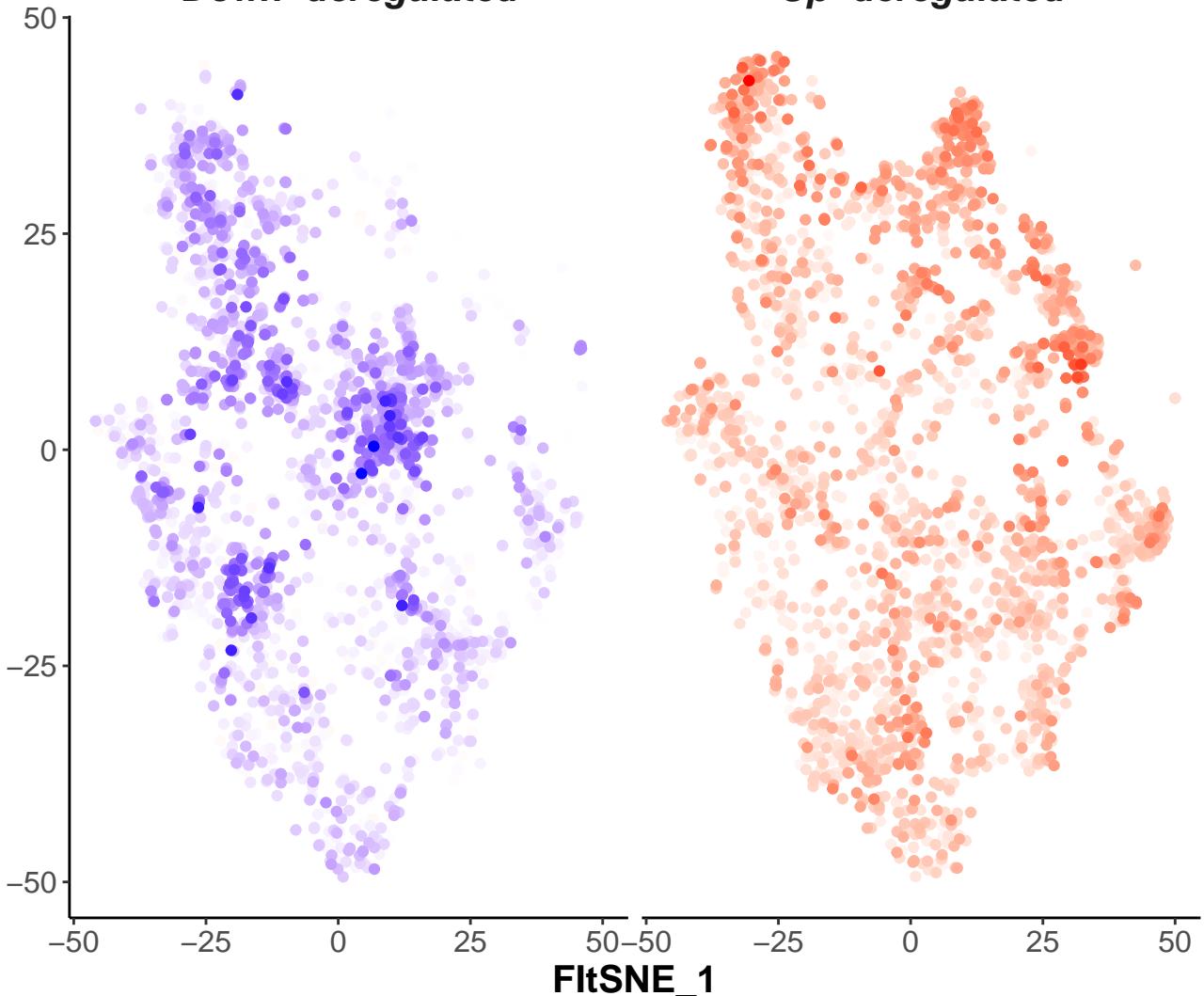


HALLMARK_APOPTOSIS

Down-deregulated

Up-deregulated

FitSNE_2



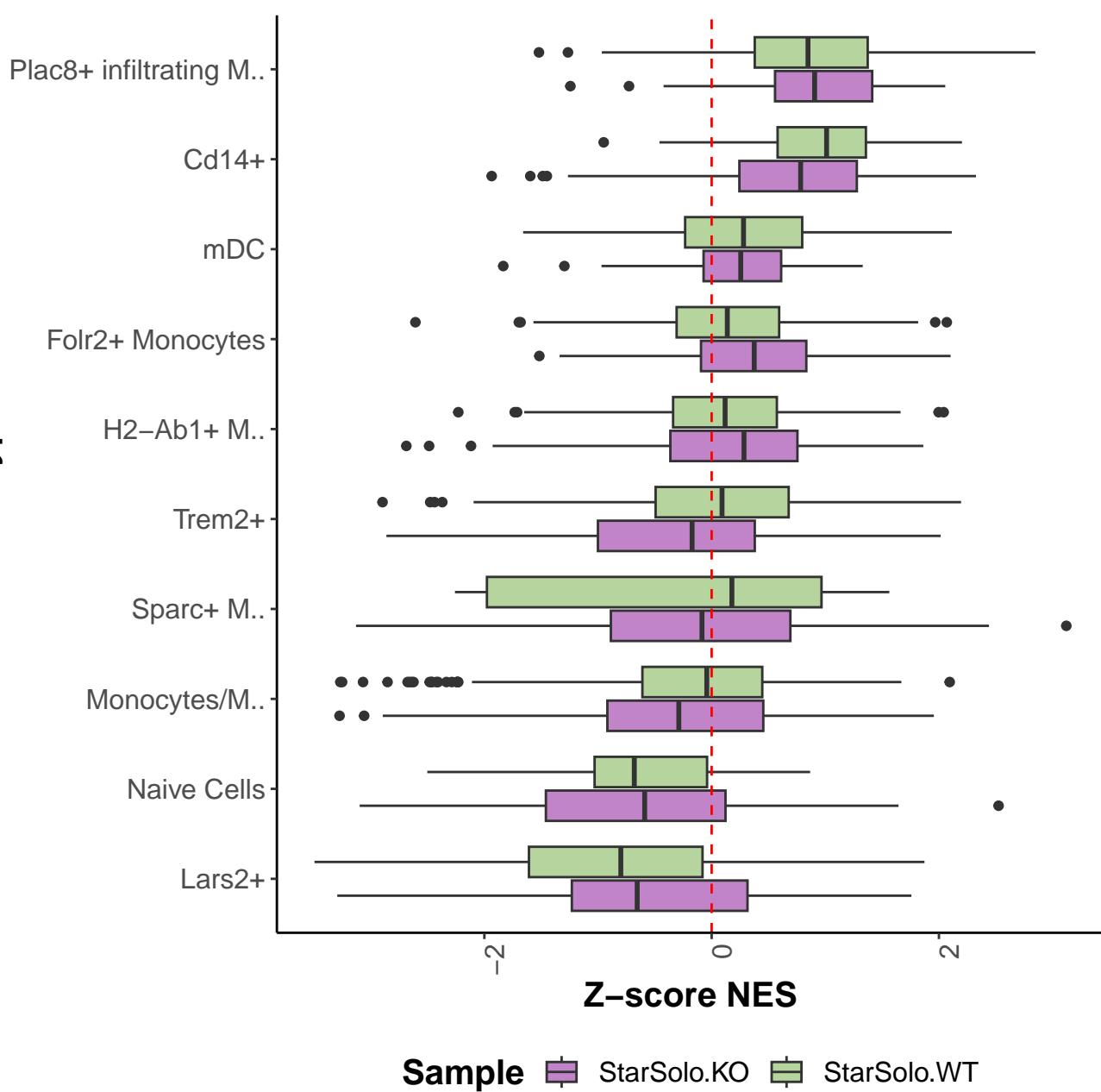
Z-score NES



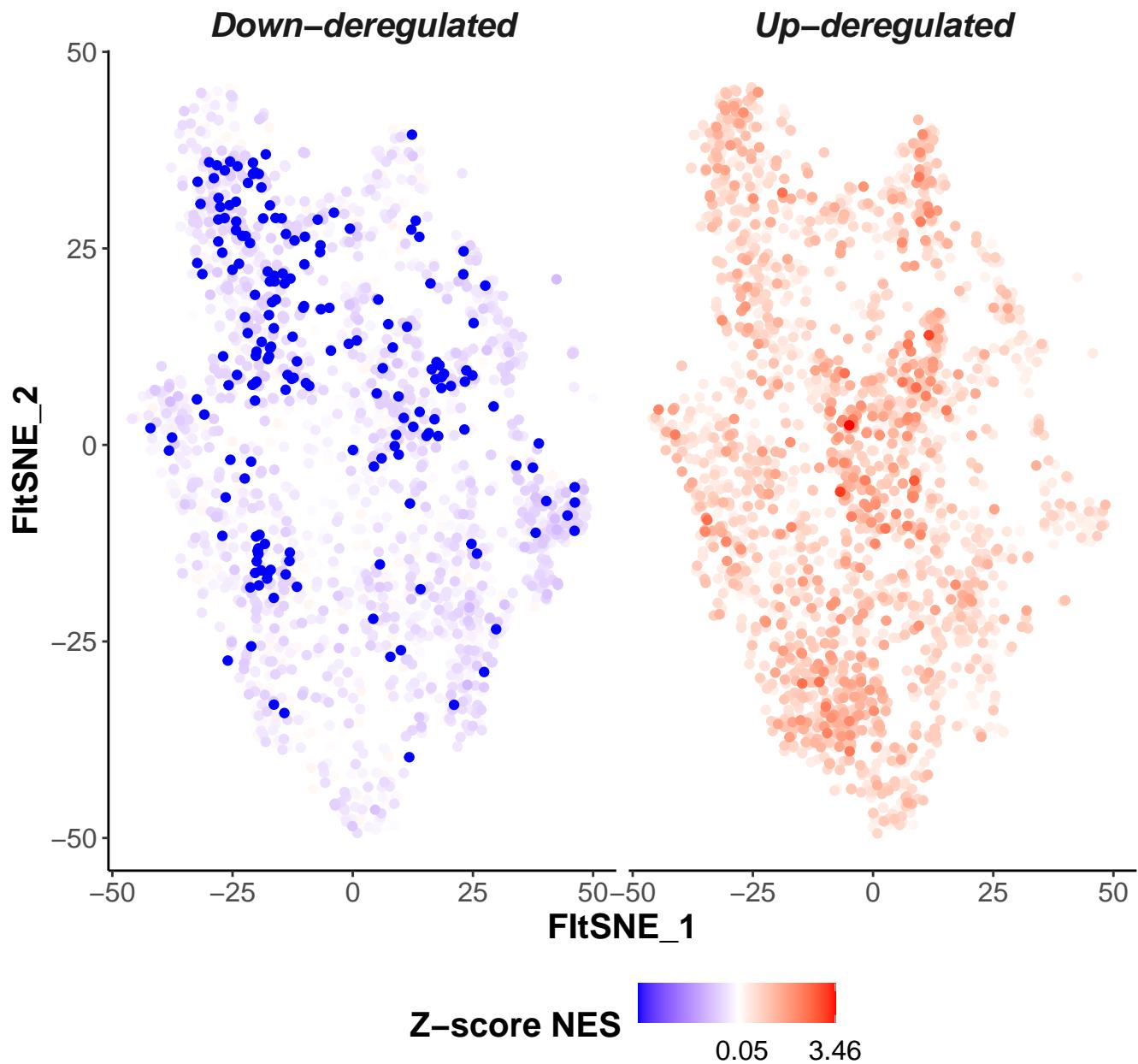
-3.49 0.09 3.12

HALLMARK_APOPTOSIS

Subtype

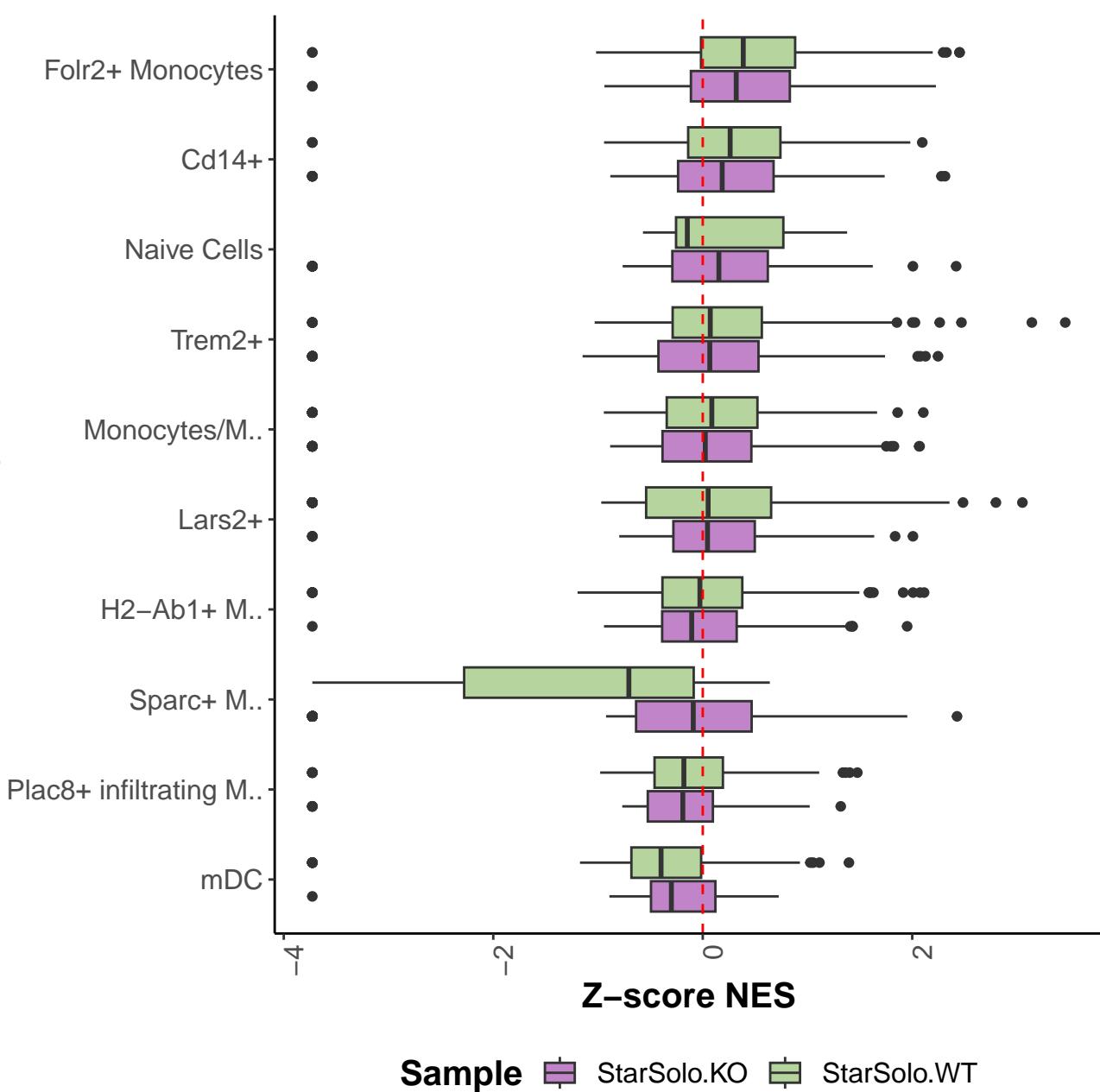


HALLMARK_BILE_ACID_METABOLISM

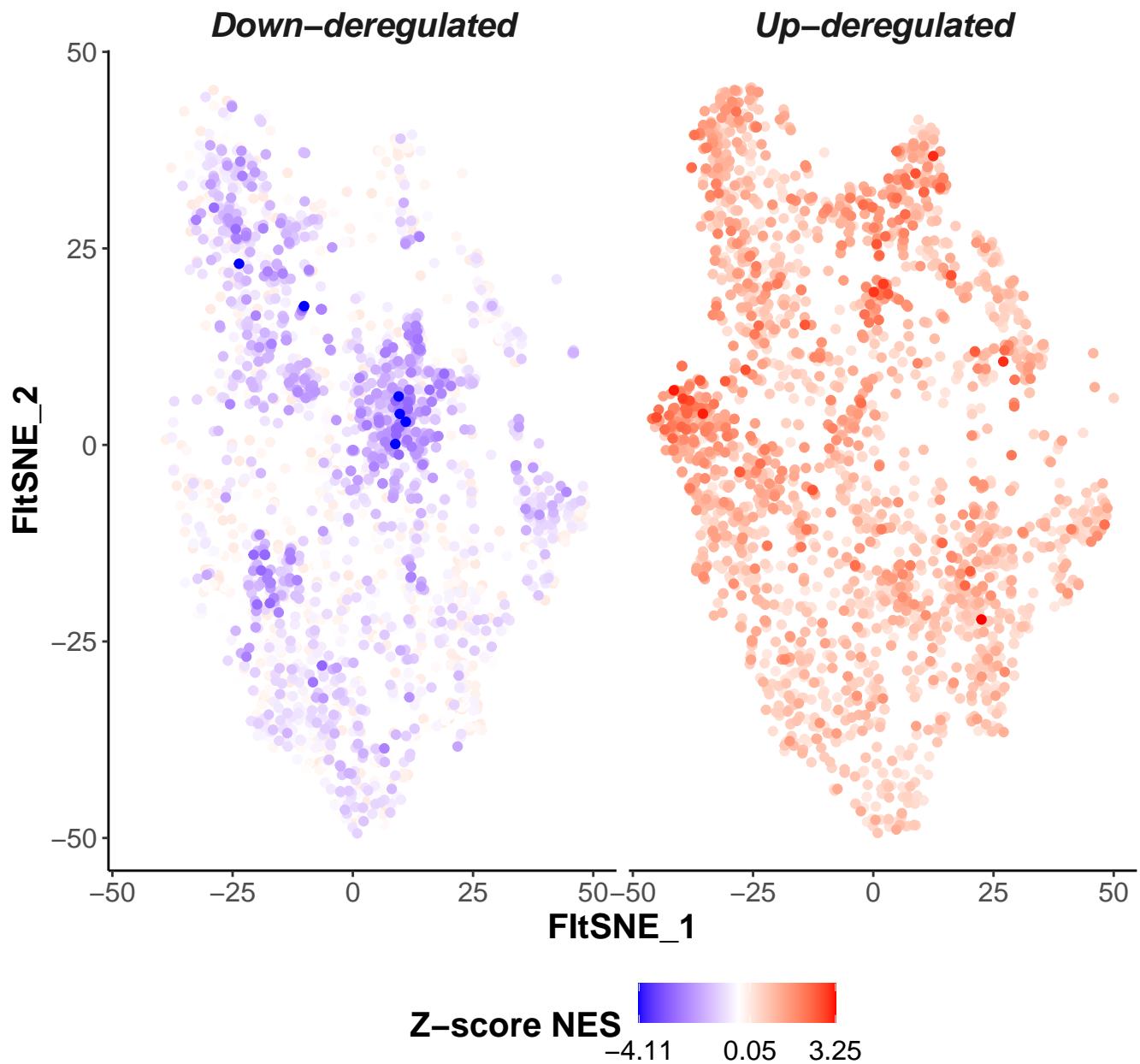


HALLMARK_BILE_ACID_METABOLISM

Subtype

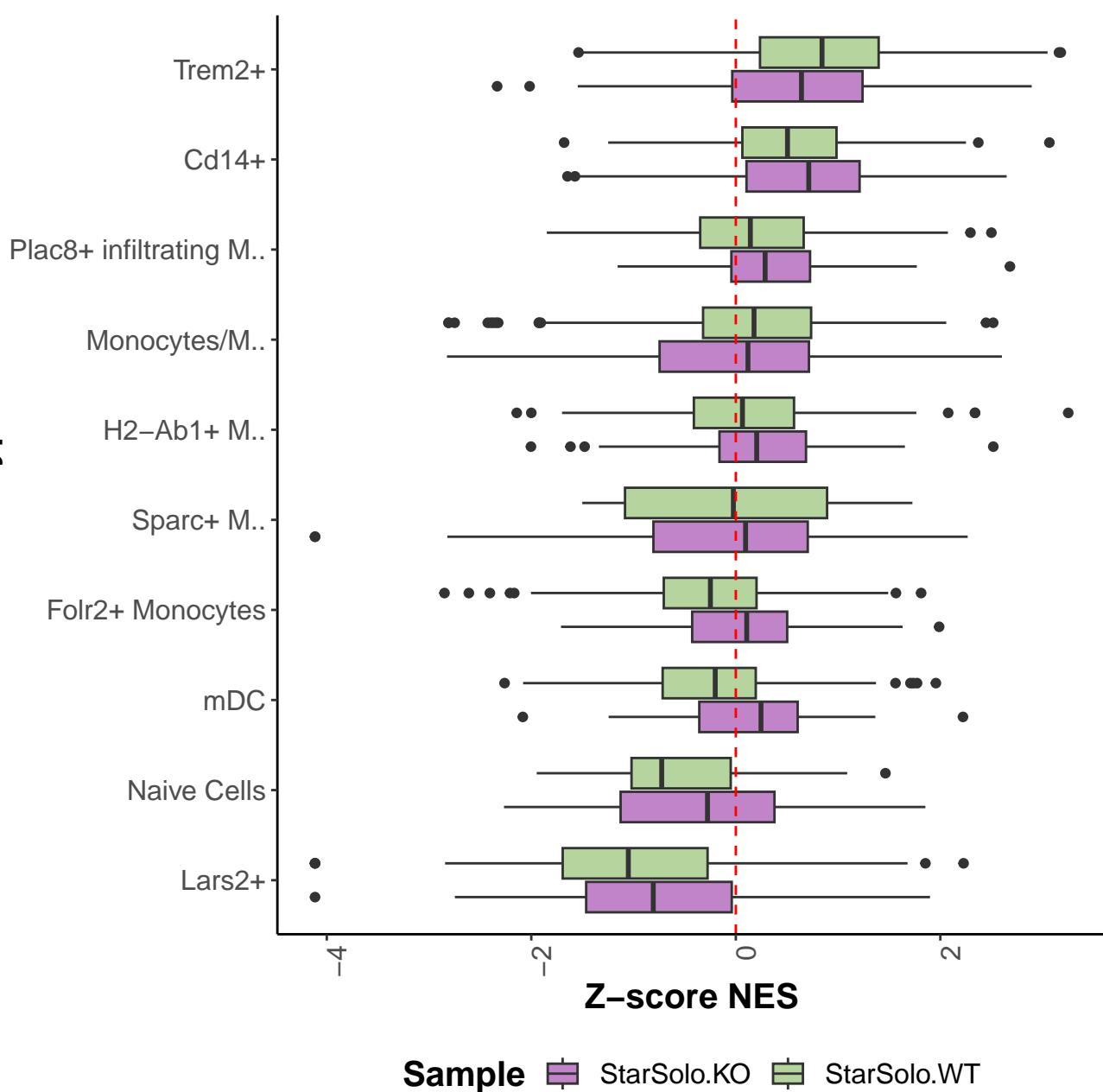


HALLMARK_CHOLESTEROL_HOMEOSTASIS

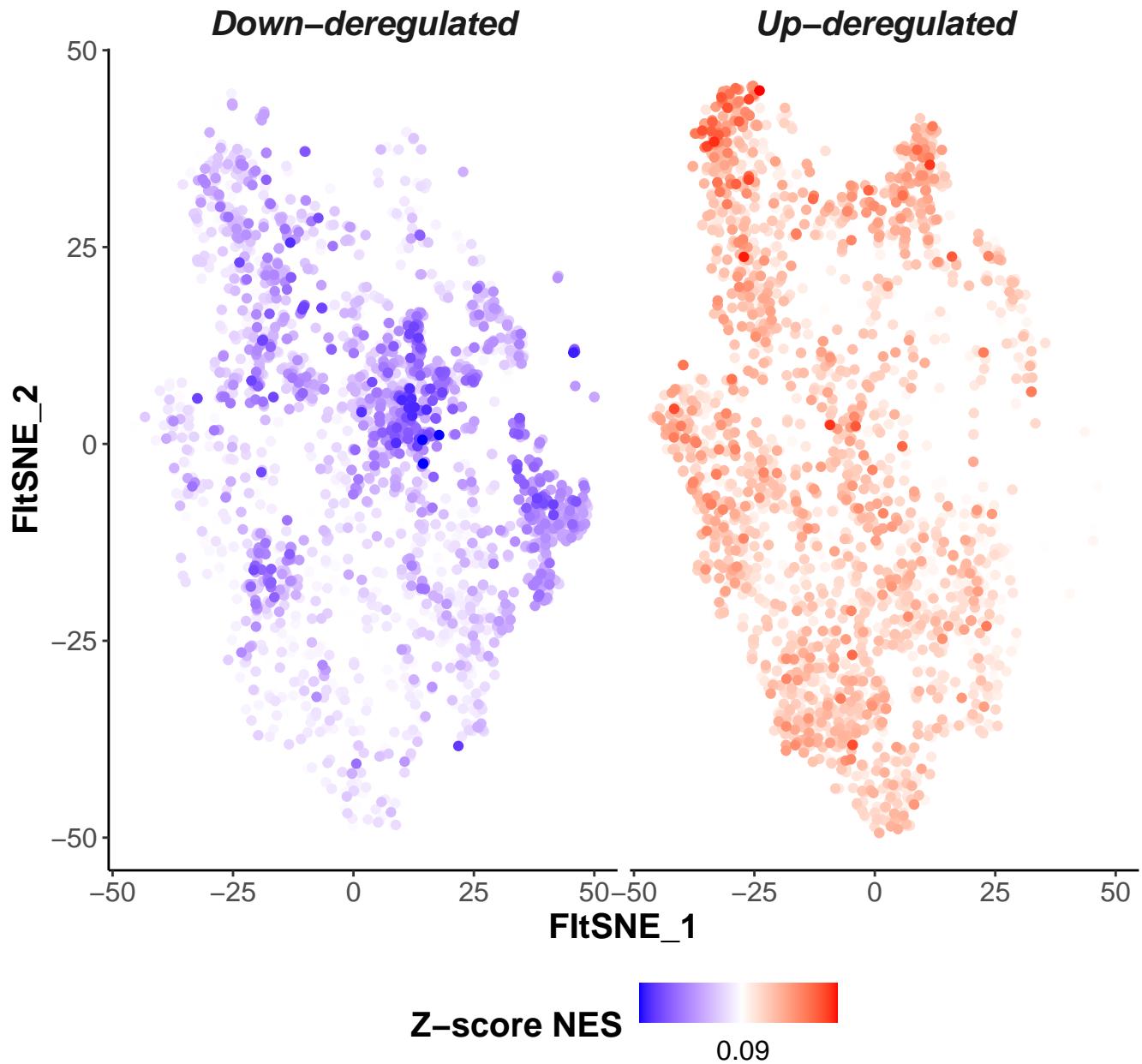


HALLMARK_CHOLESTEROL_HOMEOSTASIS

Subtype

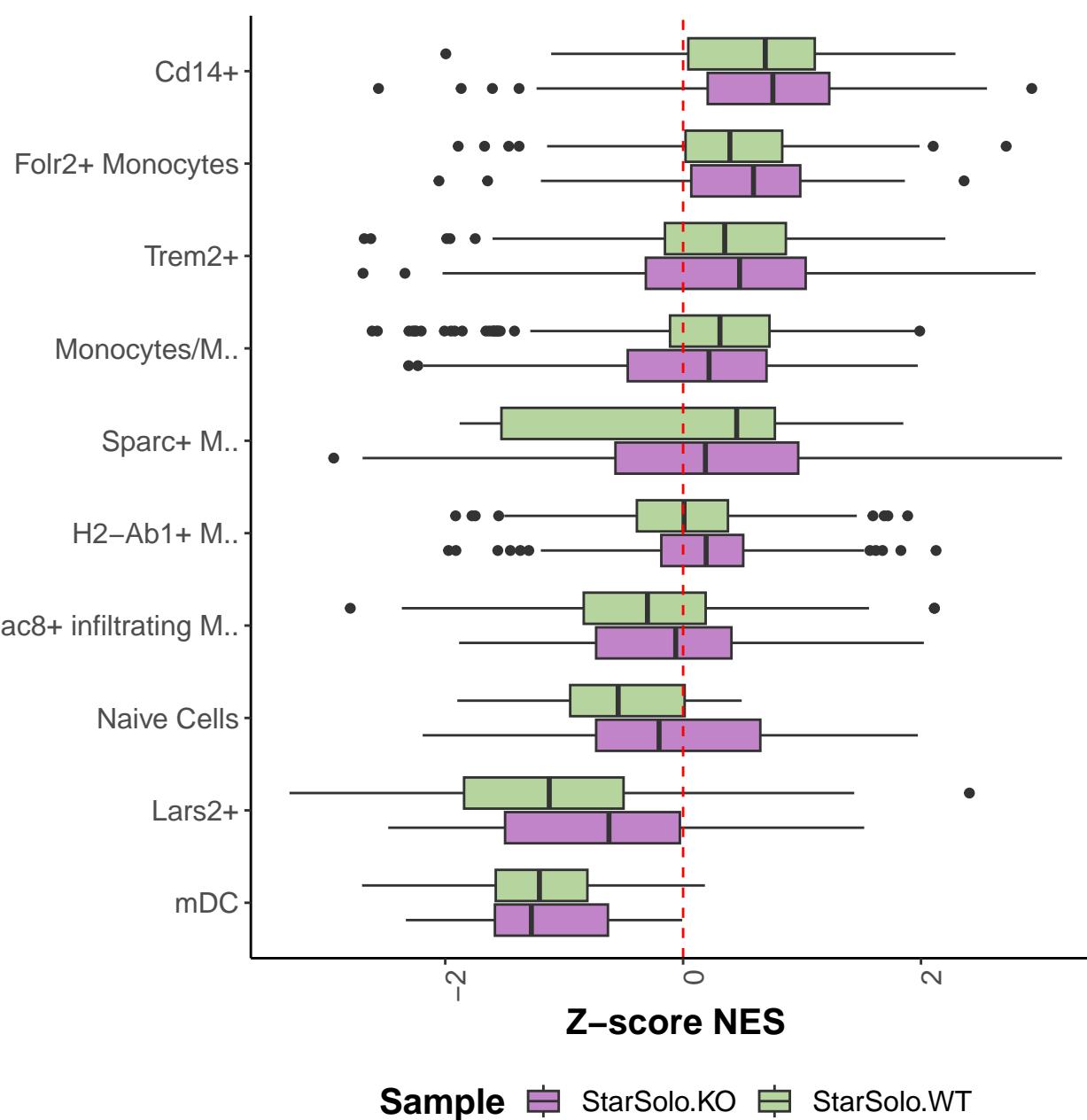


HALLMARK_COAGULATION

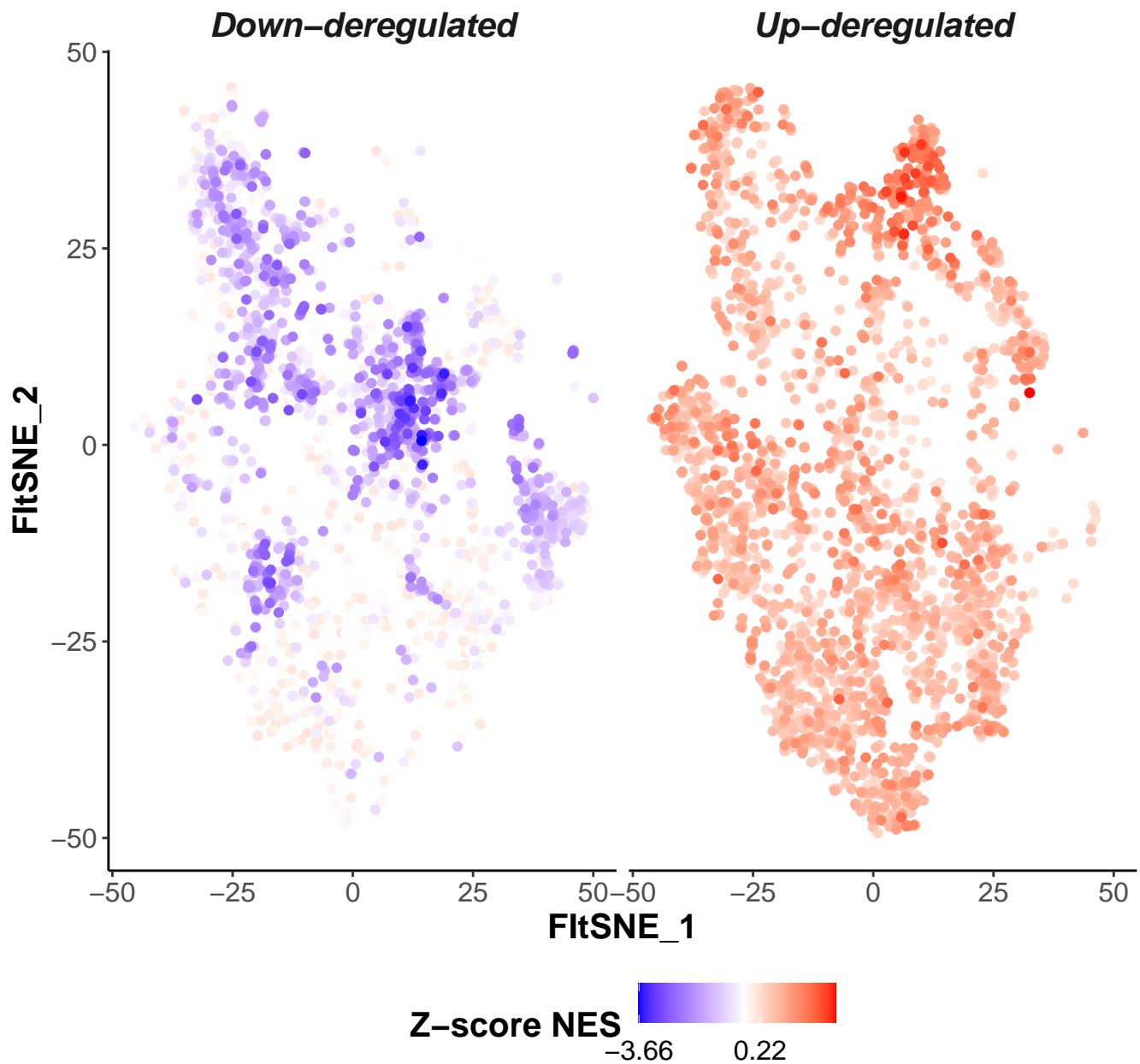


HALLMARK_COAGULATION

Subtype

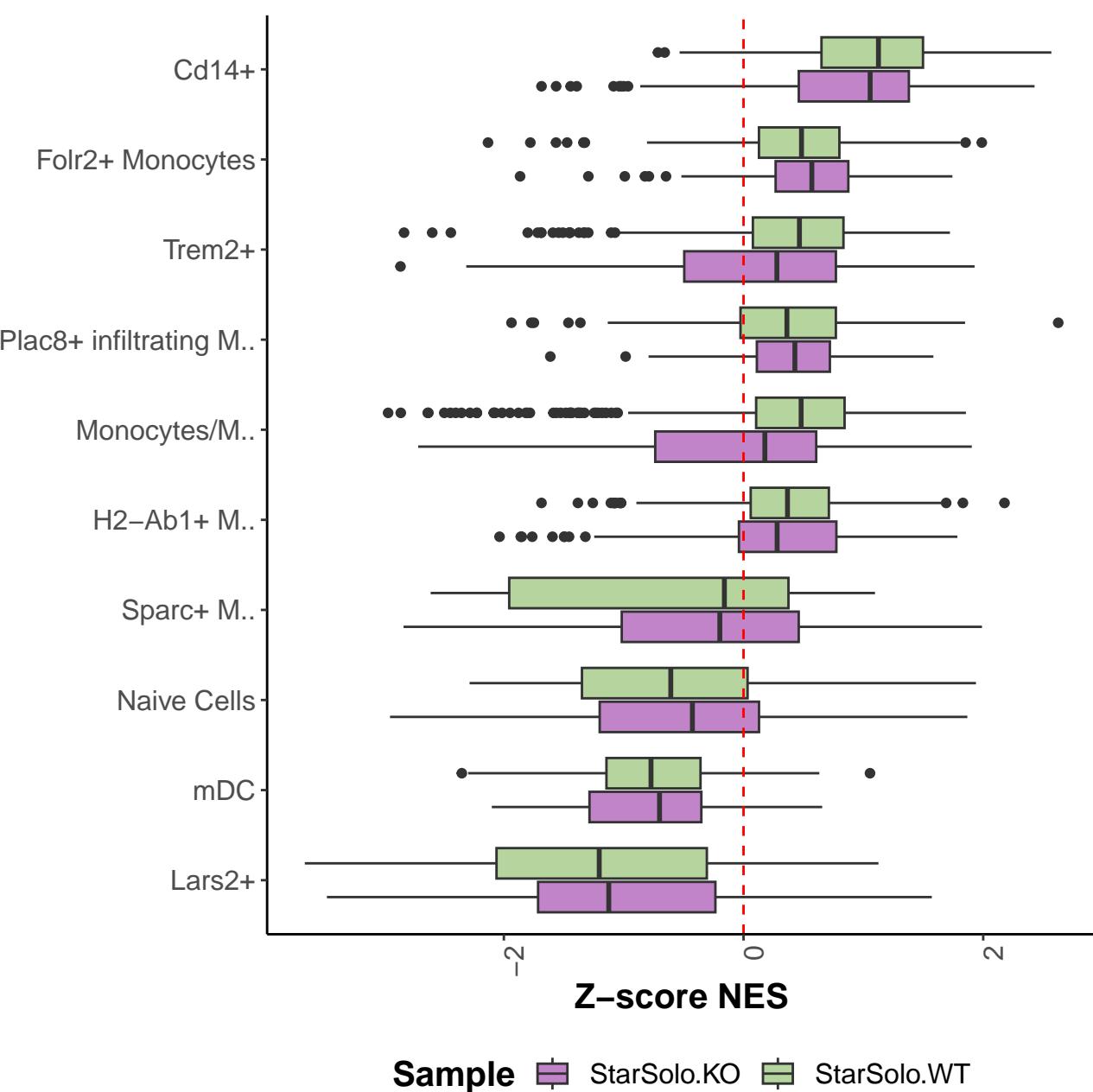


HALLMARK_COMPLEMENT



HALLMARK_COMPLEMENT

Subtype

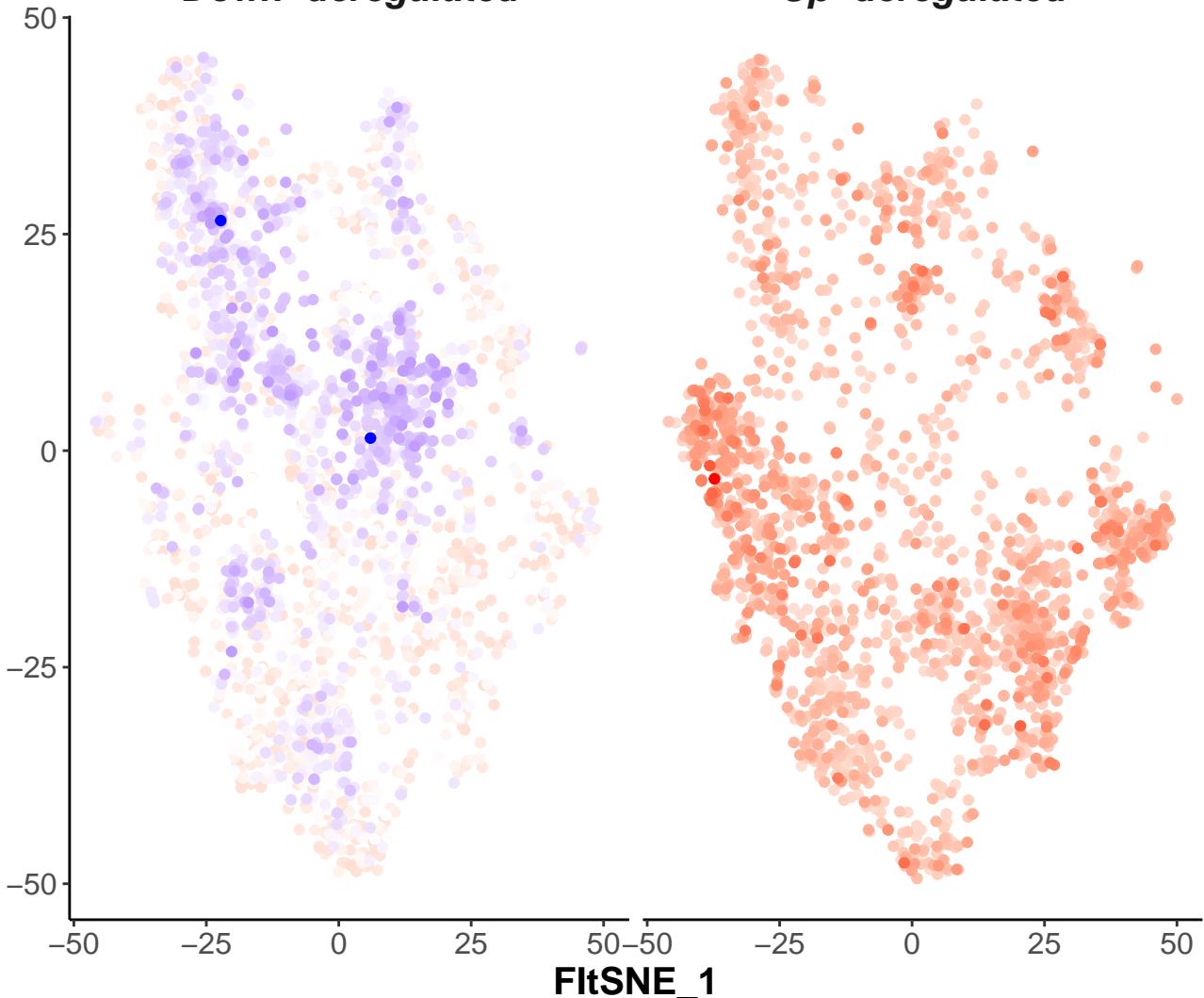


HALLMARK_DNA_REPAIR

Down-deregulated

Up-deregulated

FitSNE_2



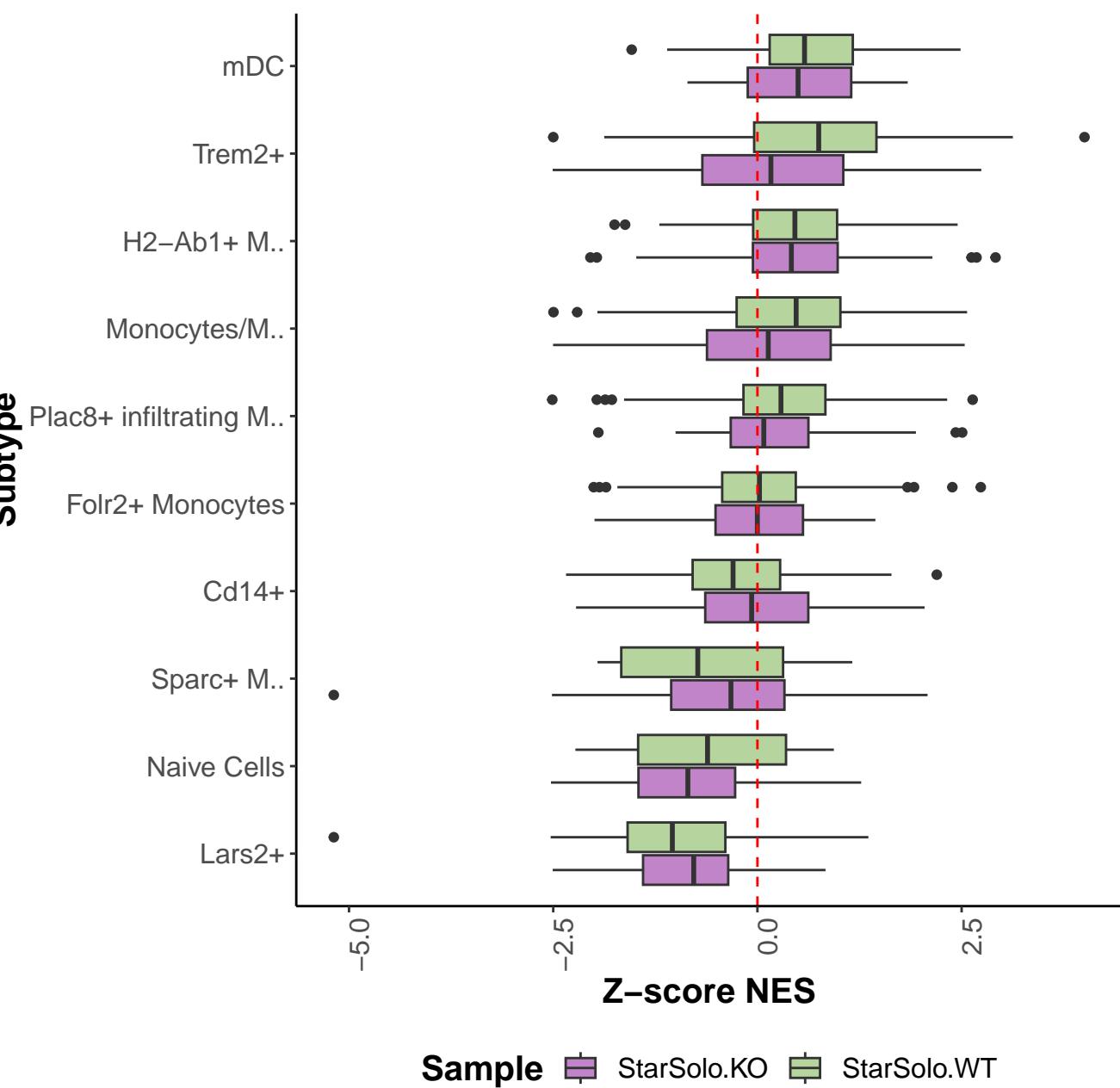
Z-score NES



0.03 4.00

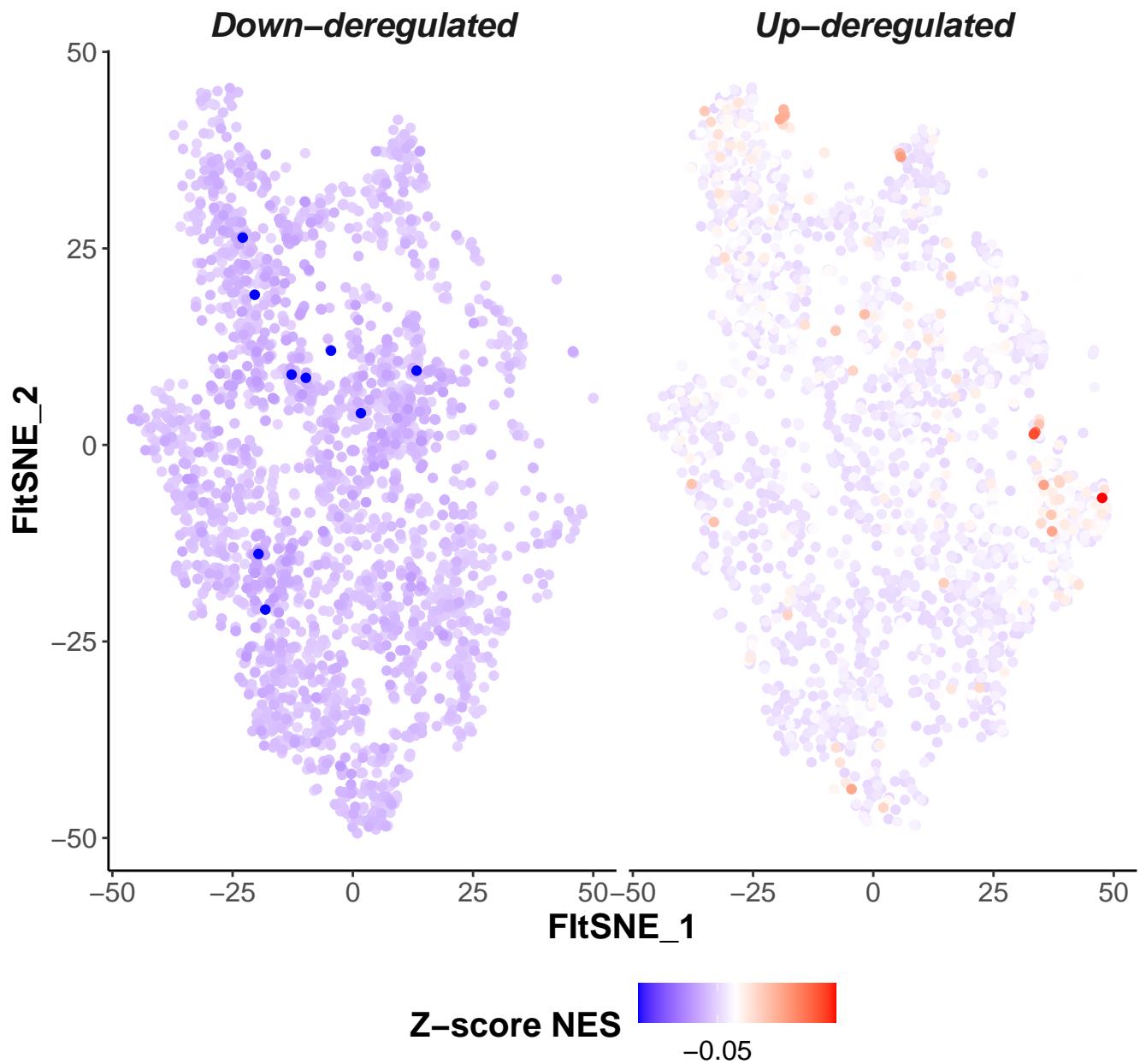
HALLMARK_DNA_REPAIR

Subtype



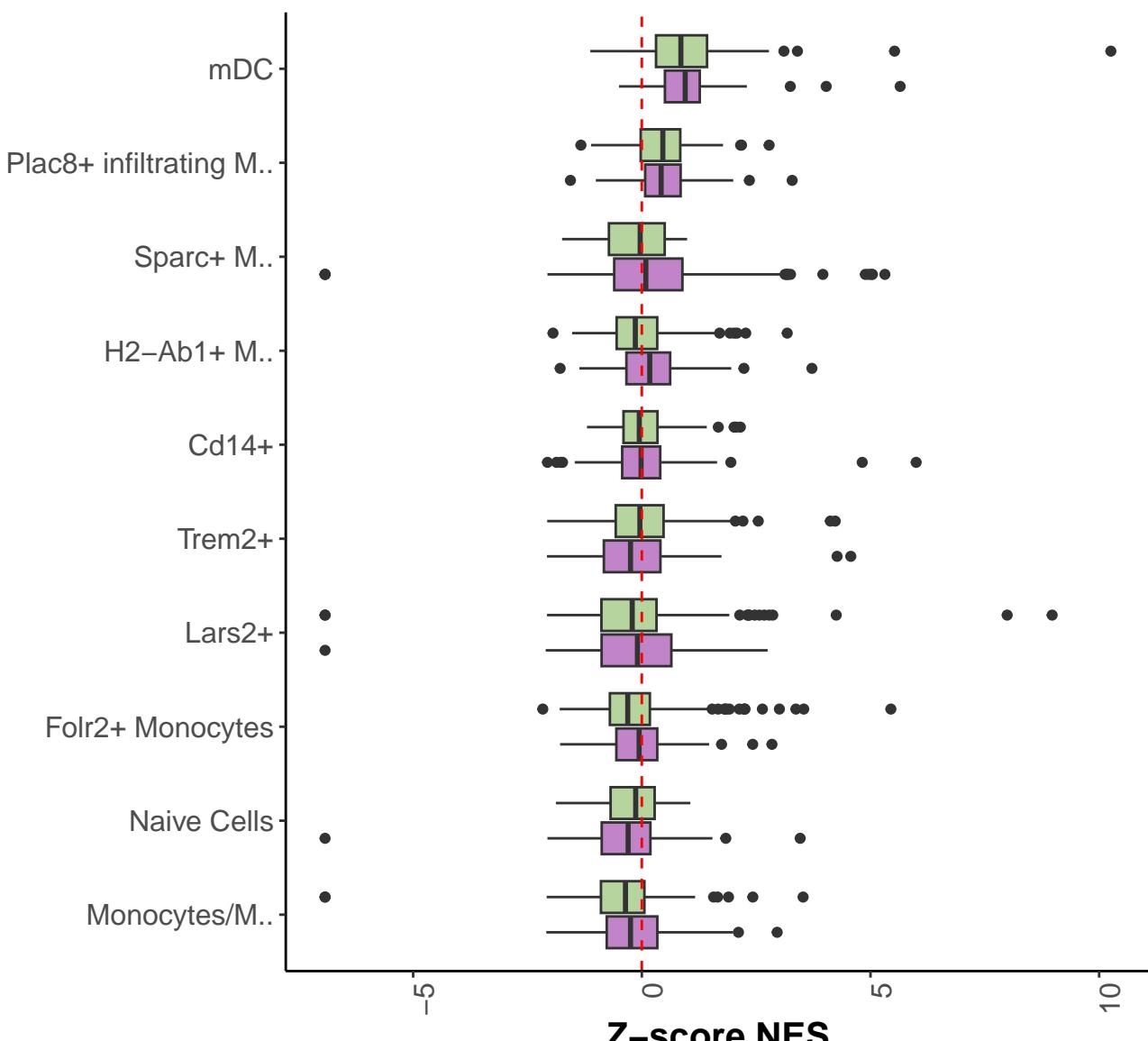
Sample StarSolo.KO StarSolo.WT

HALLMARK_E2F_TARGETS



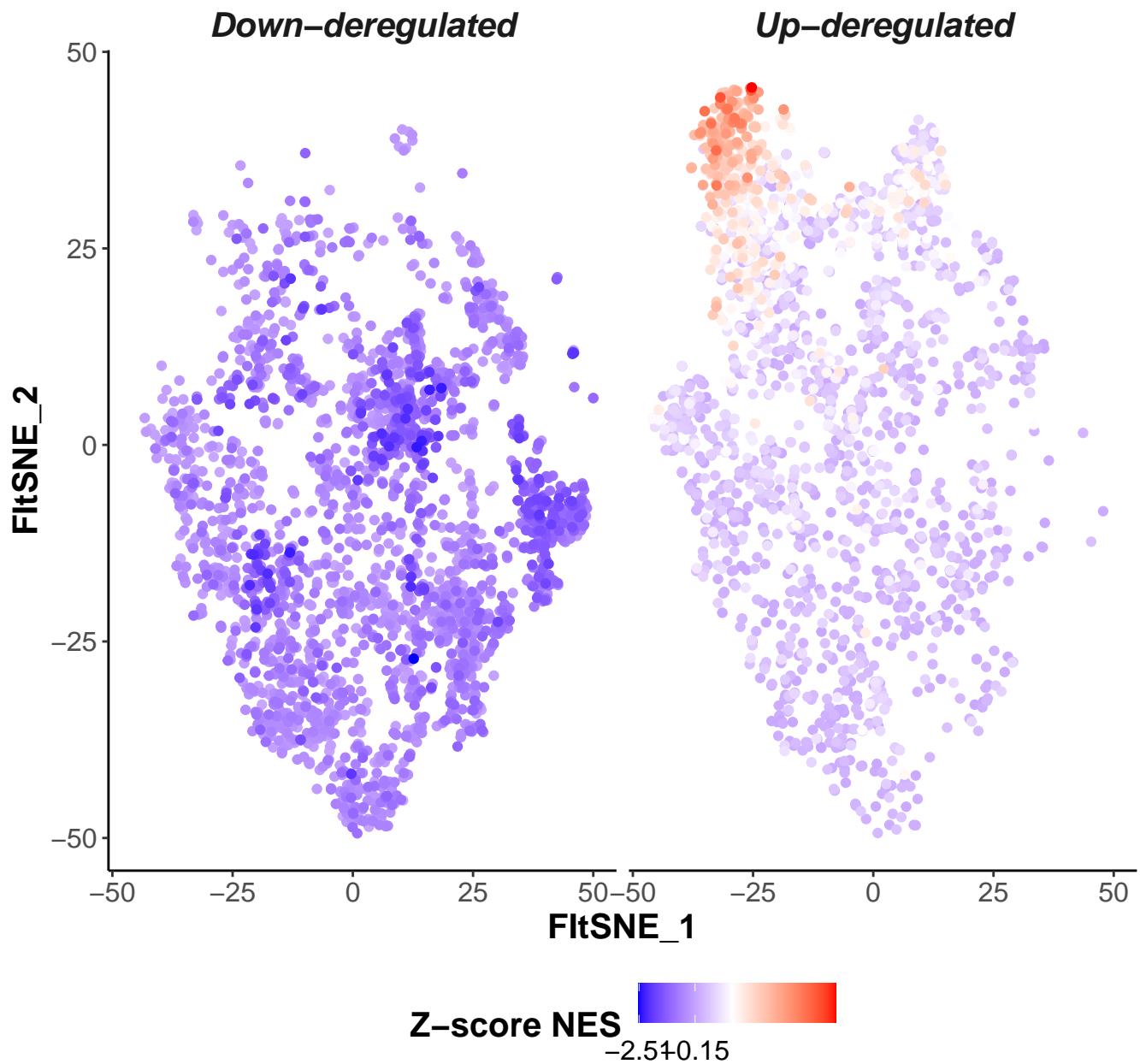
HALLMARK_E2F_TARGETS

Subtype



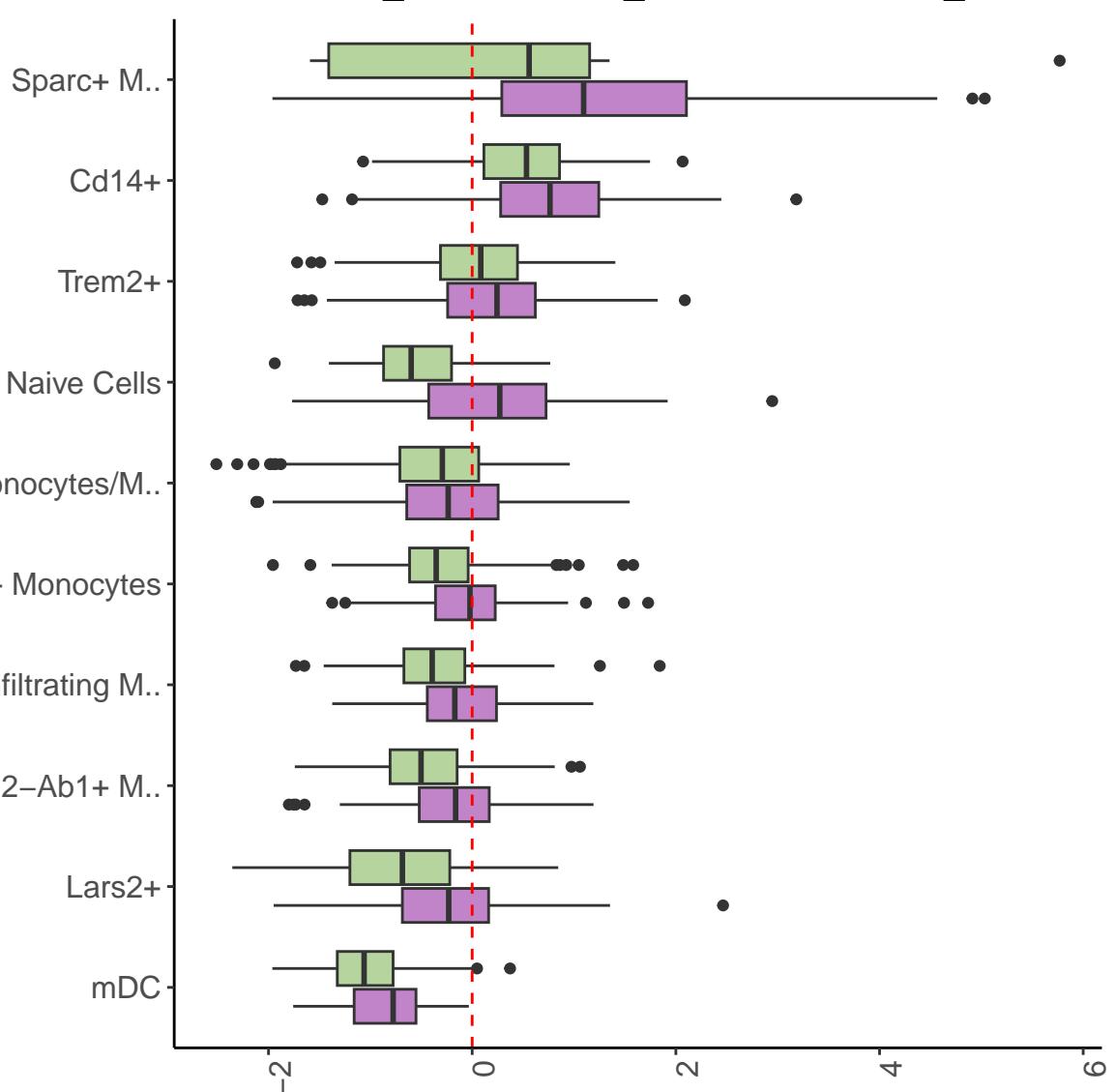
Sample StarSolo.KO StarSolo.WT

HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION



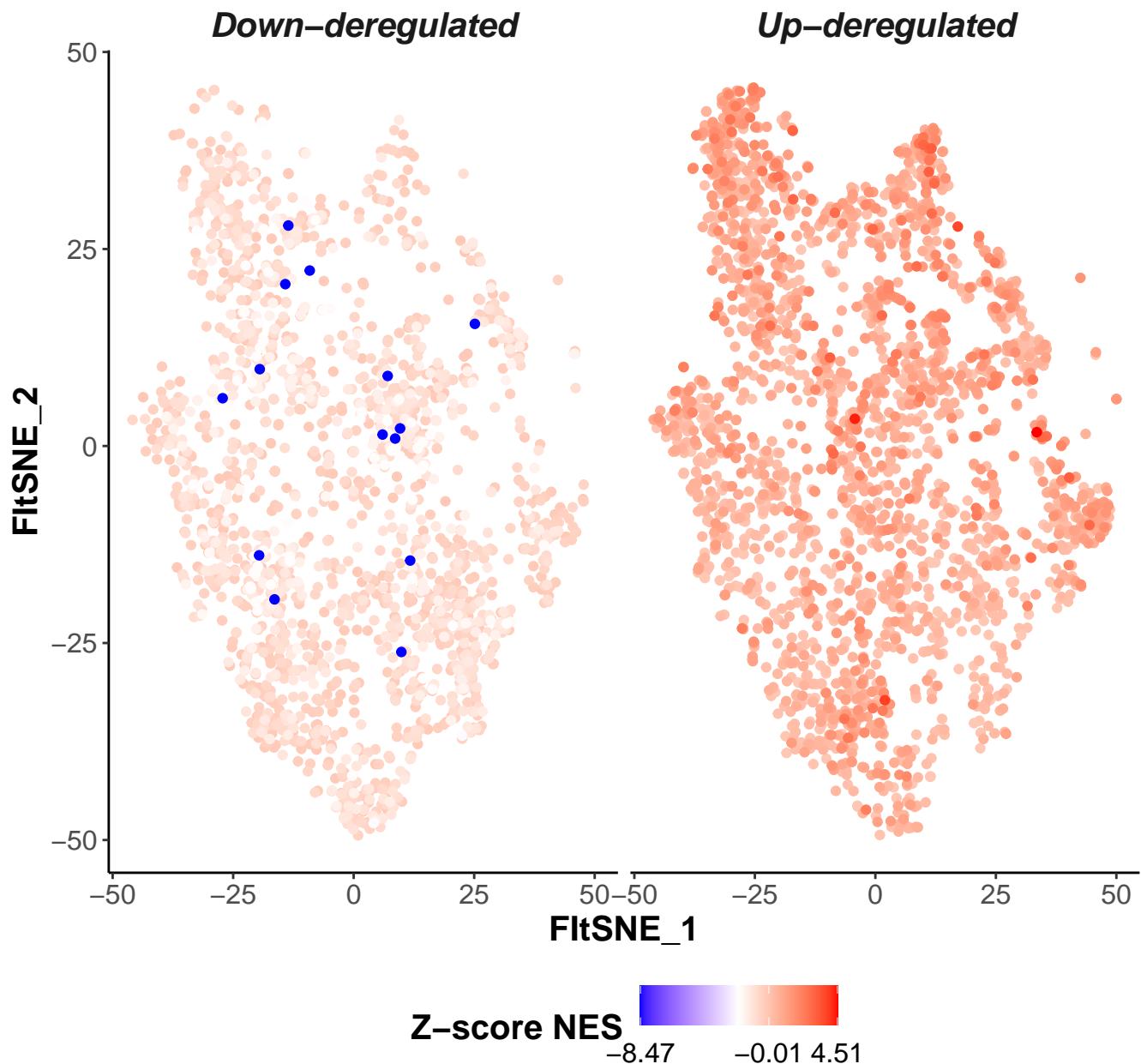
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION

Subtype



Sample █ StarSolo.KO █ StarSolo.WT

HALLMARK_ESTROGEN_RESPONSE_EARLY



HALLMARK_ESTROGEN_RESPONSE_EARLY

Subtype

Cd14+

mDC

Plac8+ infiltrating M..

Trem2+

Sparc+ M..

Lars2+

Folr2+ Monocytes

Naive Cells

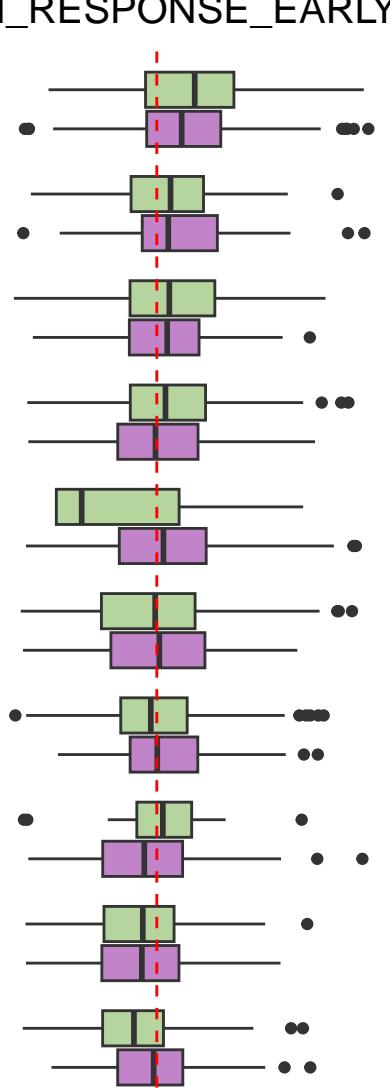
Monocytes/M..

H2-Ab1+ M..

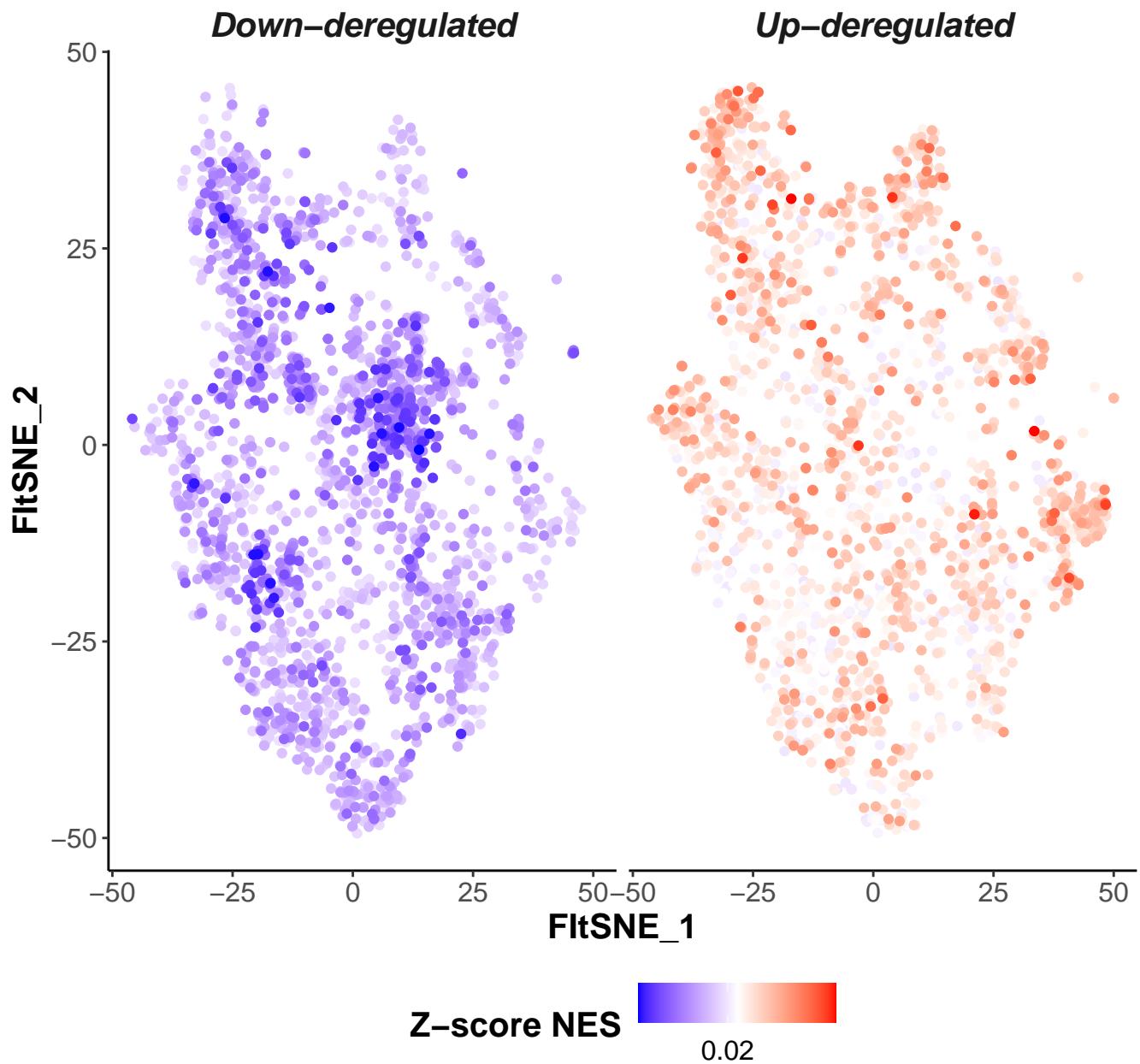
-5 0 5

Z-score NES

Sample  StarSolo.KO  StarSolo.WT

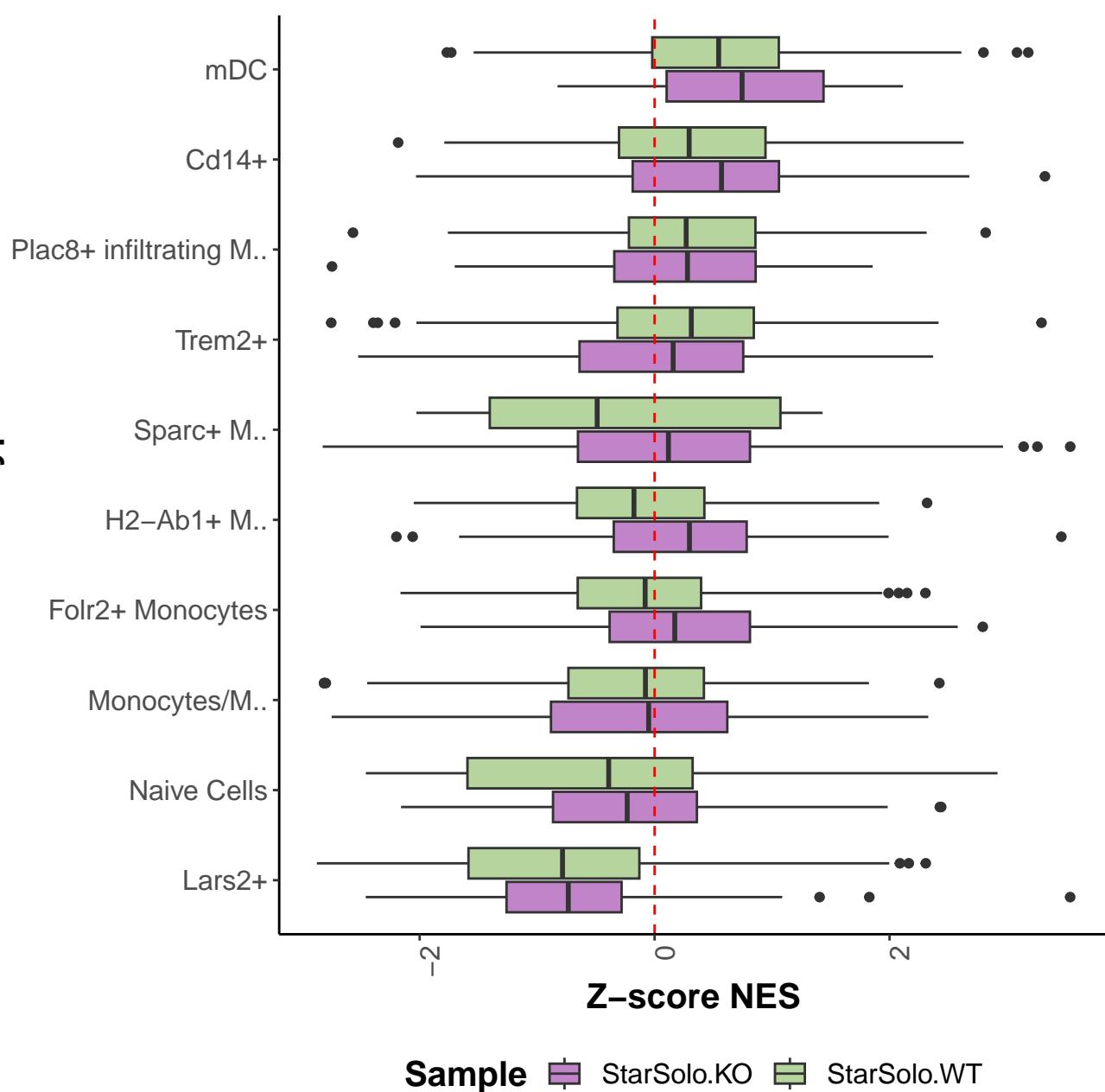


HALLMARK_ESTROGEN_RESPONSE_LATE



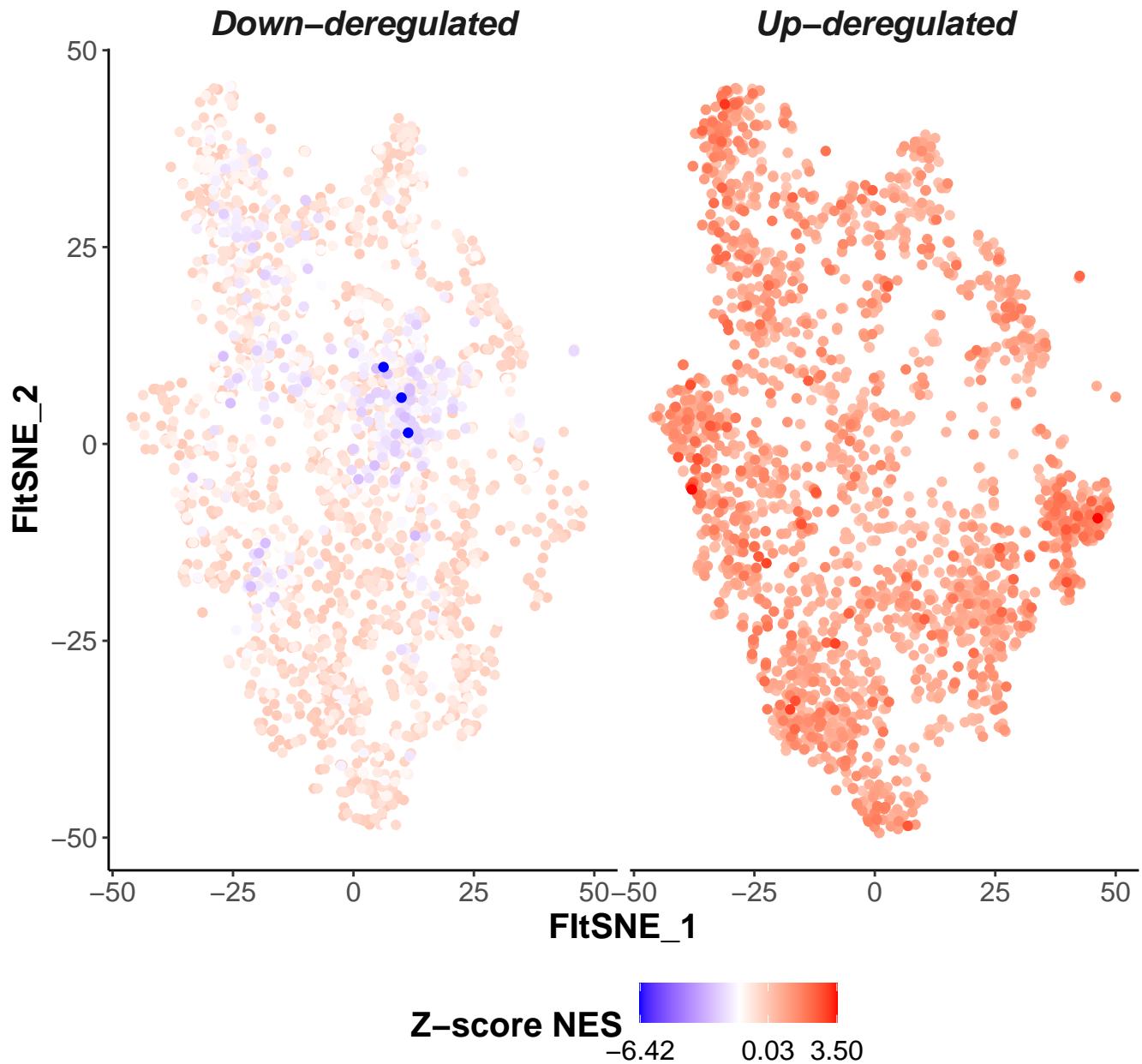
HALLMARK_ESTROGEN_RESPONSE_LATE

Subtype



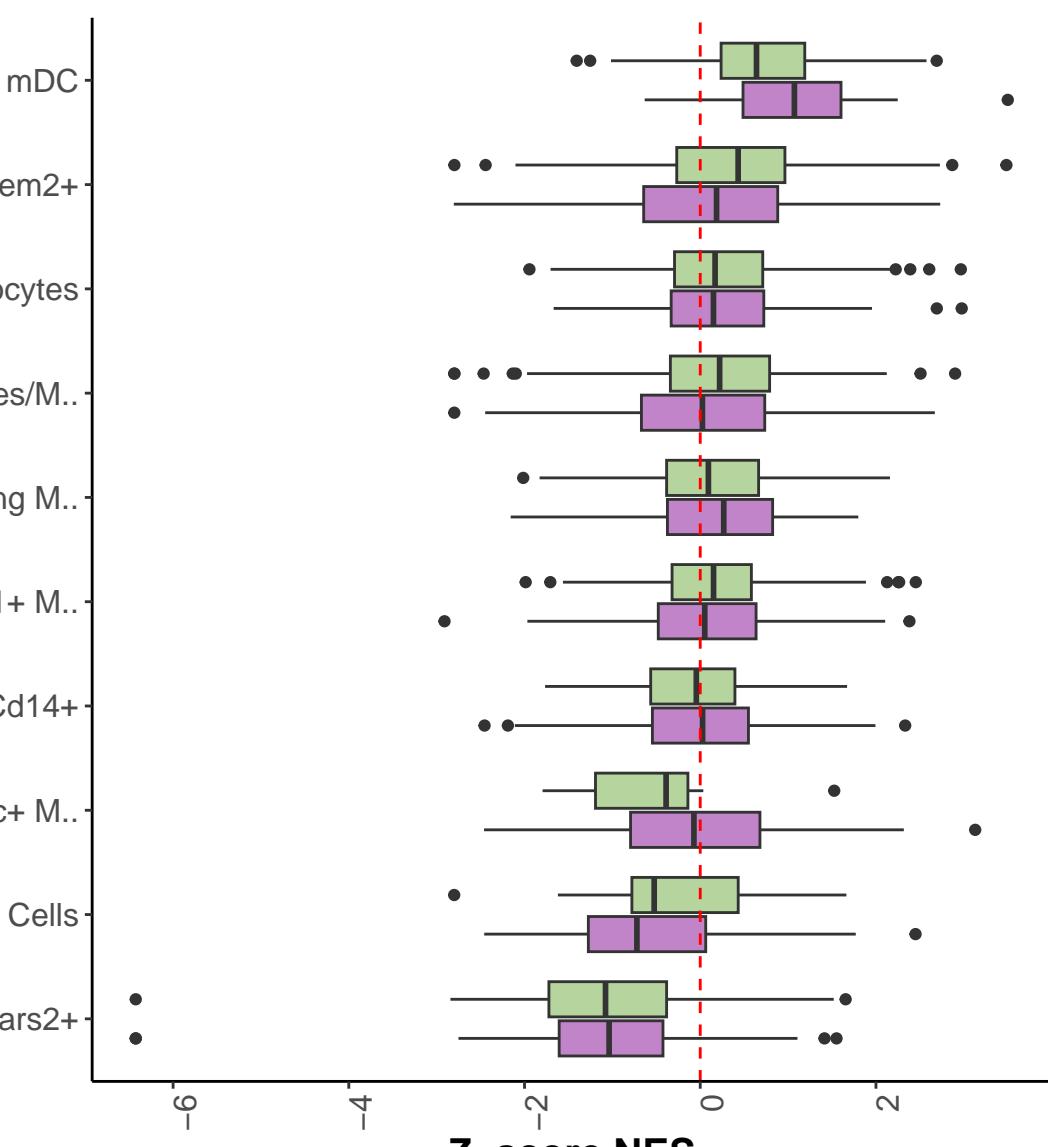
Sample ■ StarSolo.KO ■ StarSolo.WT

HALLMARK_FATTY_ACID_METABOLISM



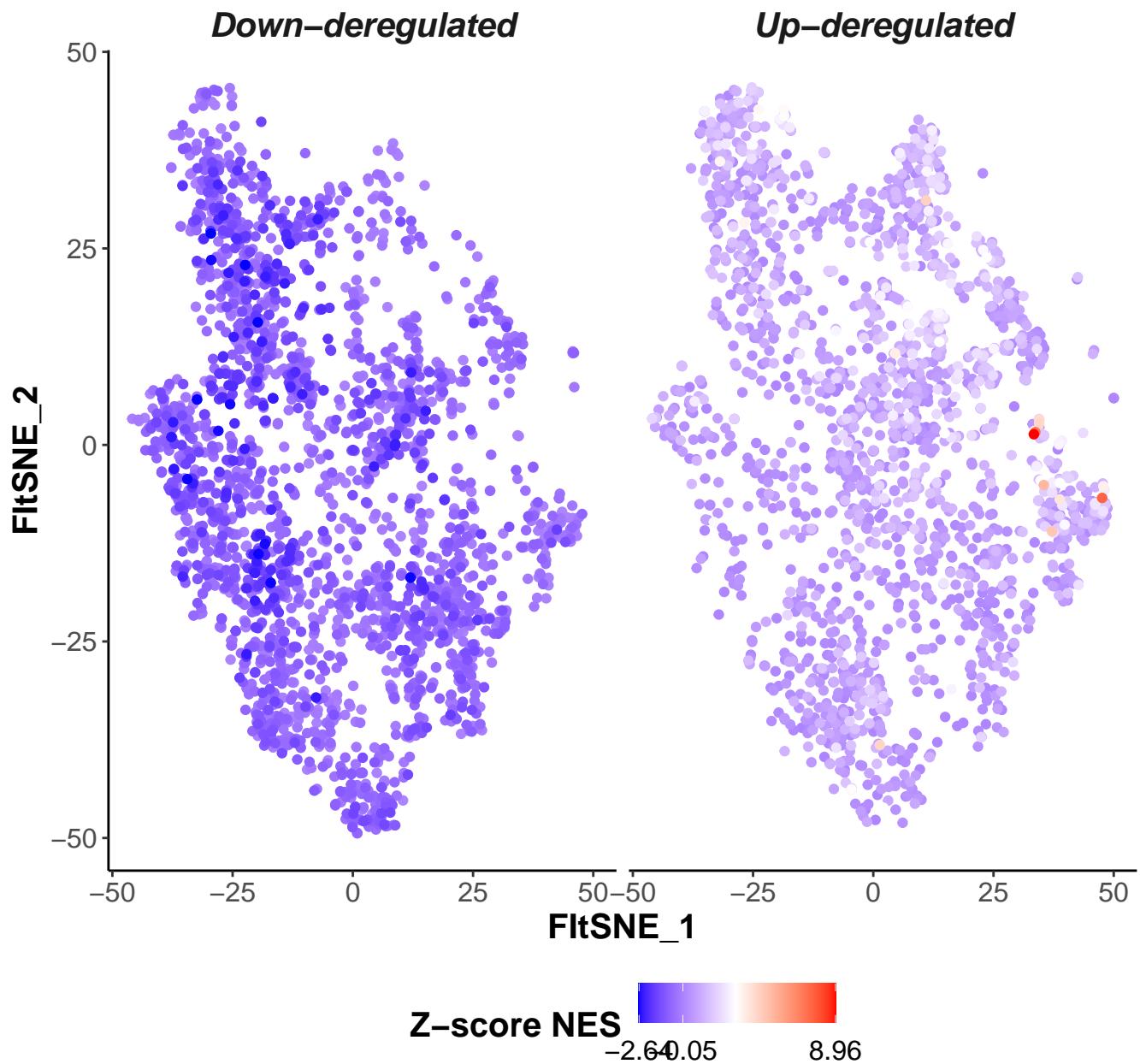
HALLMARK_FATTY_ACID_METABOLISM

Subtype



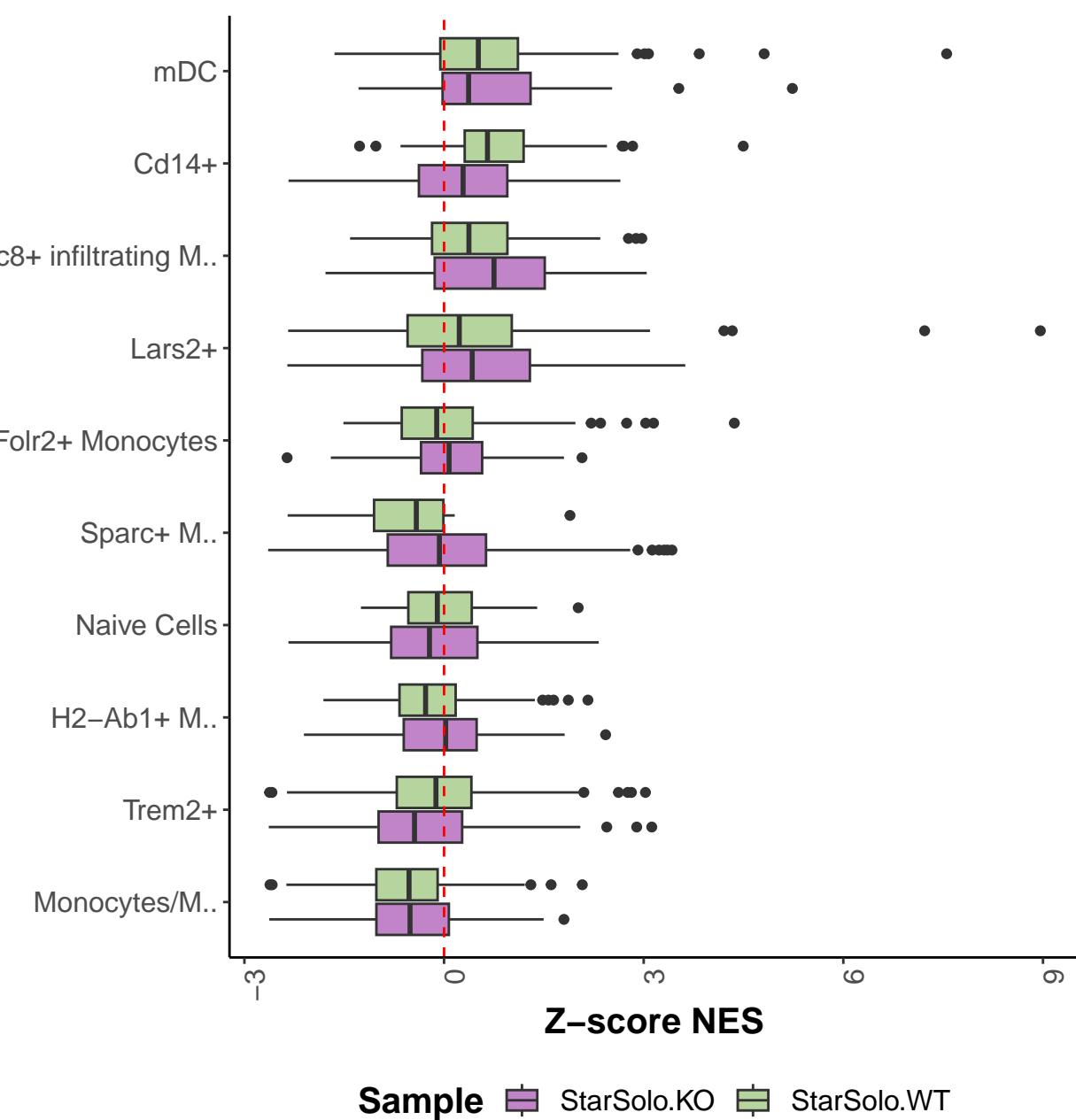
Sample StarSolo.KO StarSolo.WT

HALLMARK_G2M_CHECKPOINT



HALLMARK_G2M_CHECKPOINT

Subtype



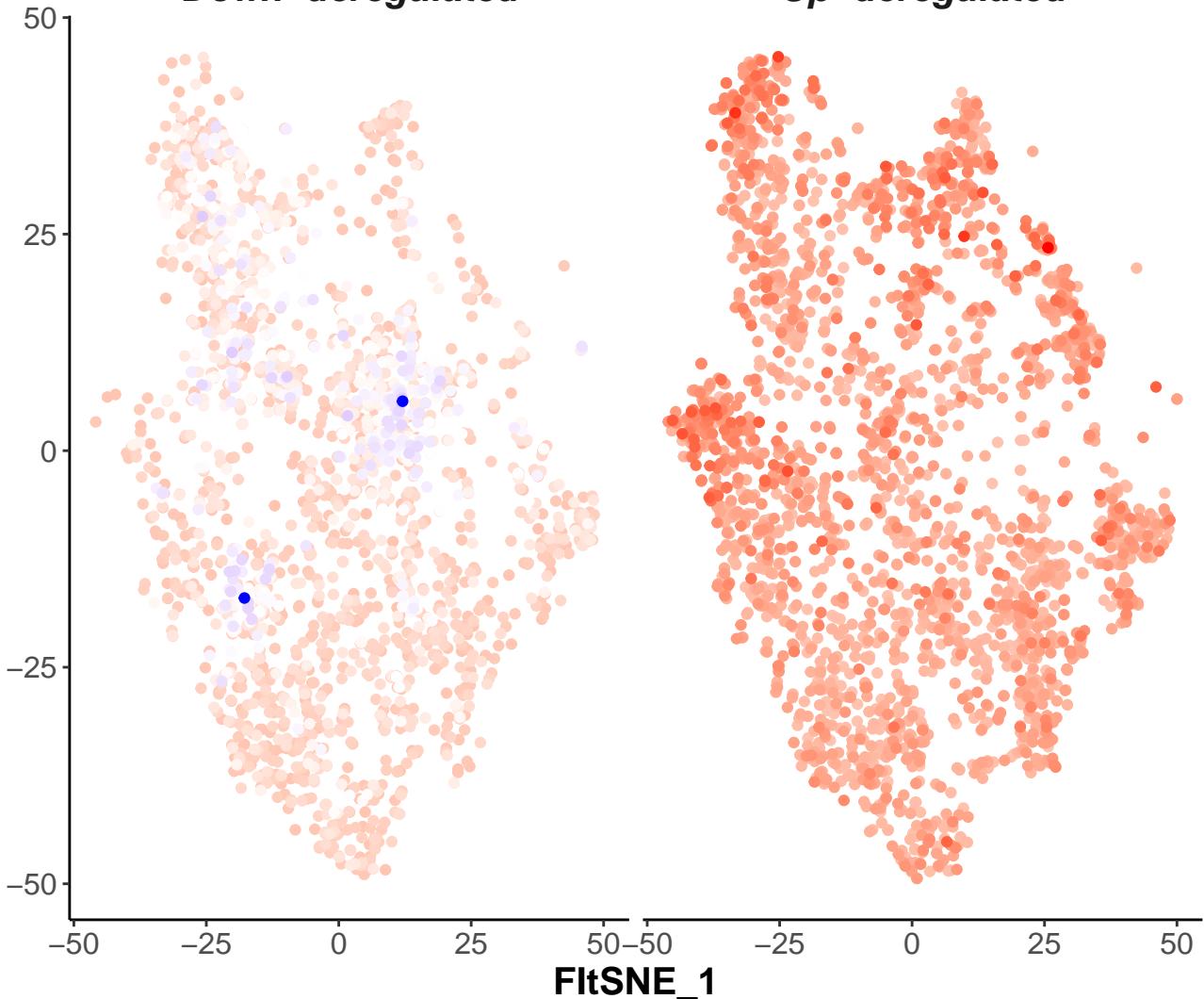
Sample ■ StarSolo.KO ■ StarSolo.WT

HALLMARK_GLYCOLYSIS

Down-deregulated

Up-deregulated

FitSNE_2



Z-score NES



-7.53

0.06 3.80

HALLMARK_GLYCOLYSIS

Subtype

Trem2+

Cd14+

Plac8+ infiltrating M..

mDC

H2-Ab1+ M..

Monocytes/M..

Folr2+ Monocytes

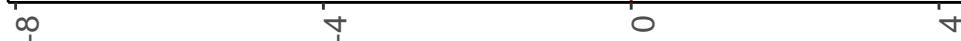
Sparc+ M..

Naive Cells

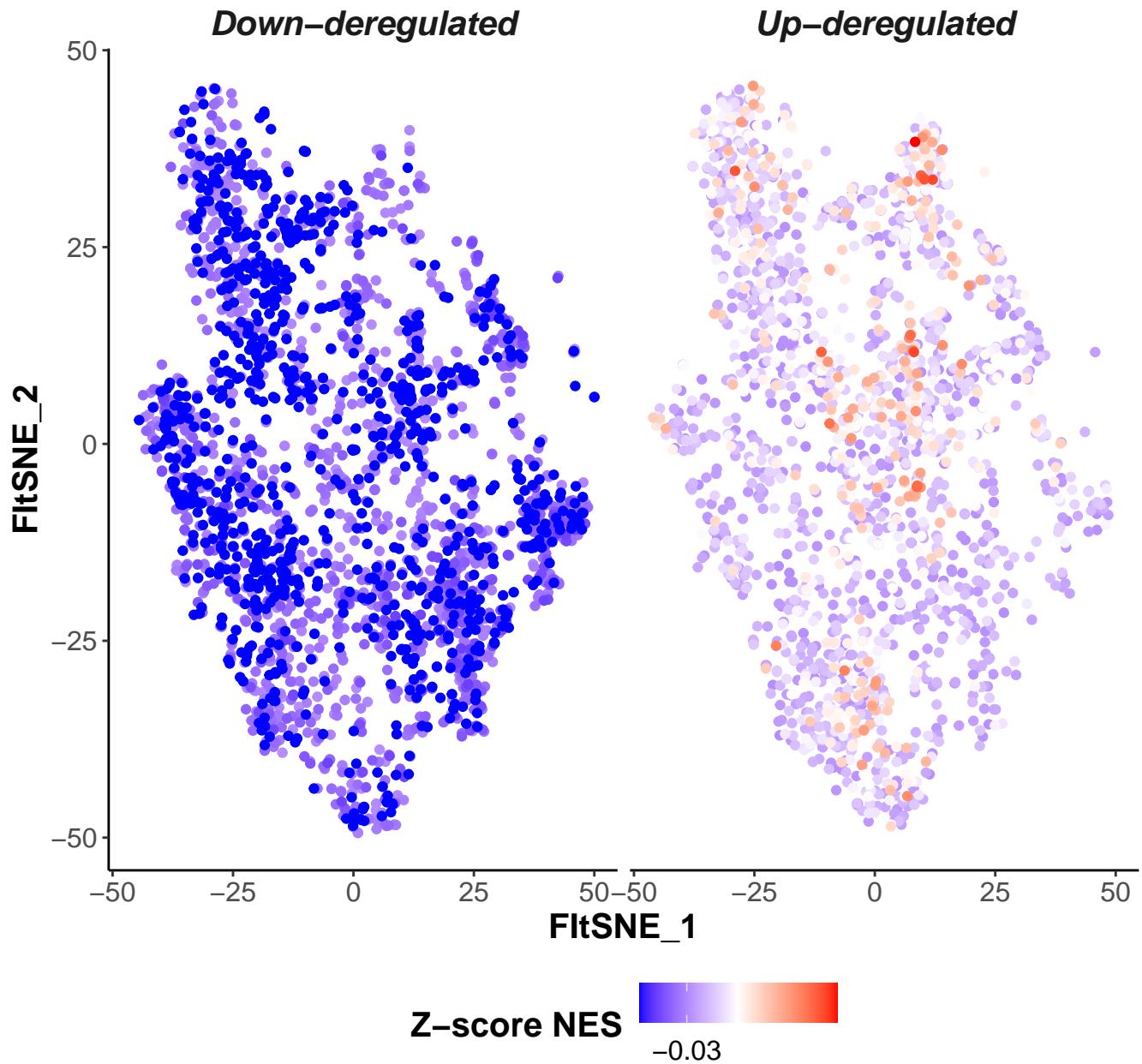
Lars2+

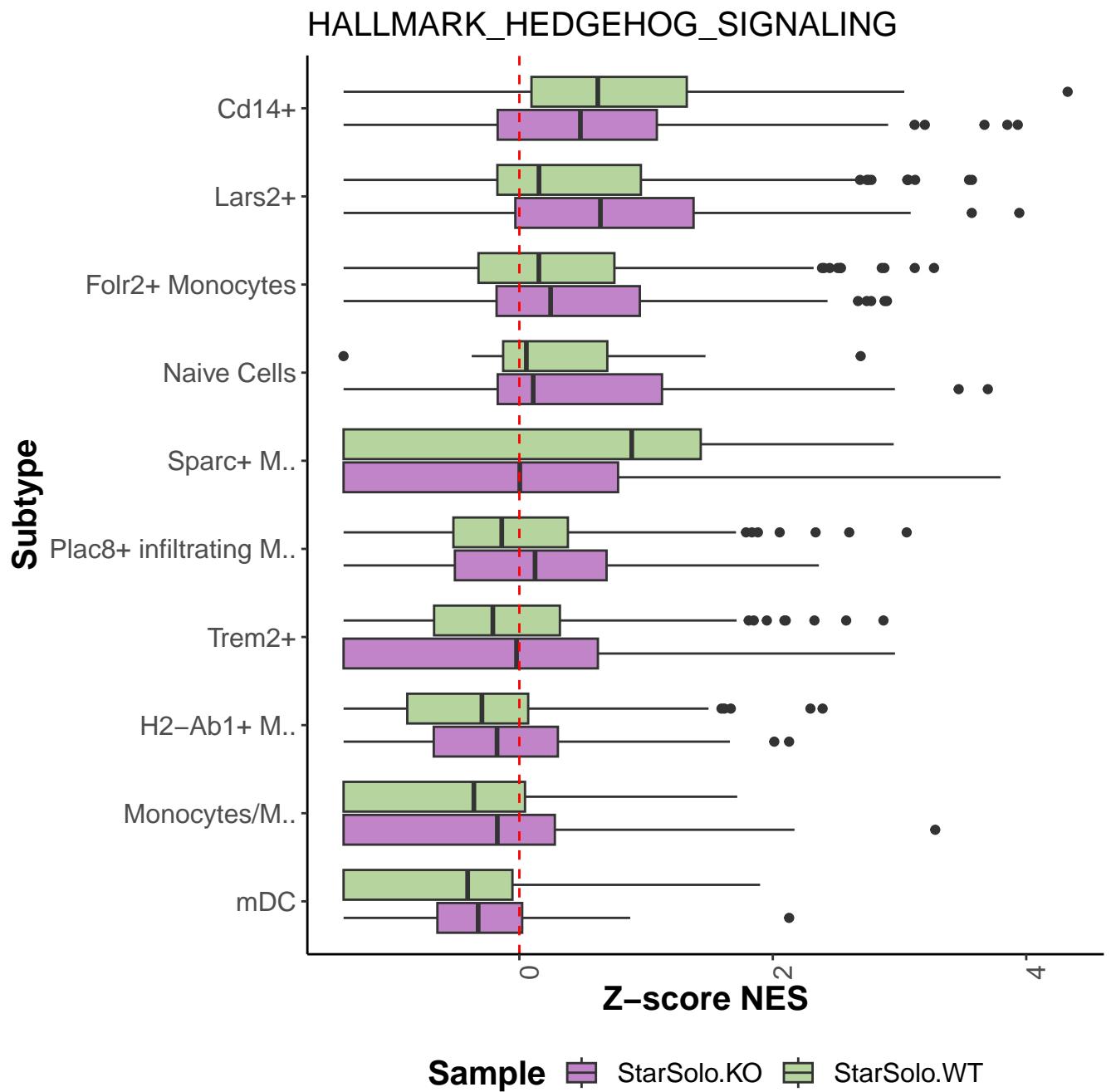
Z-score NES

Sample  StarSolo.KO  StarSolo.WT

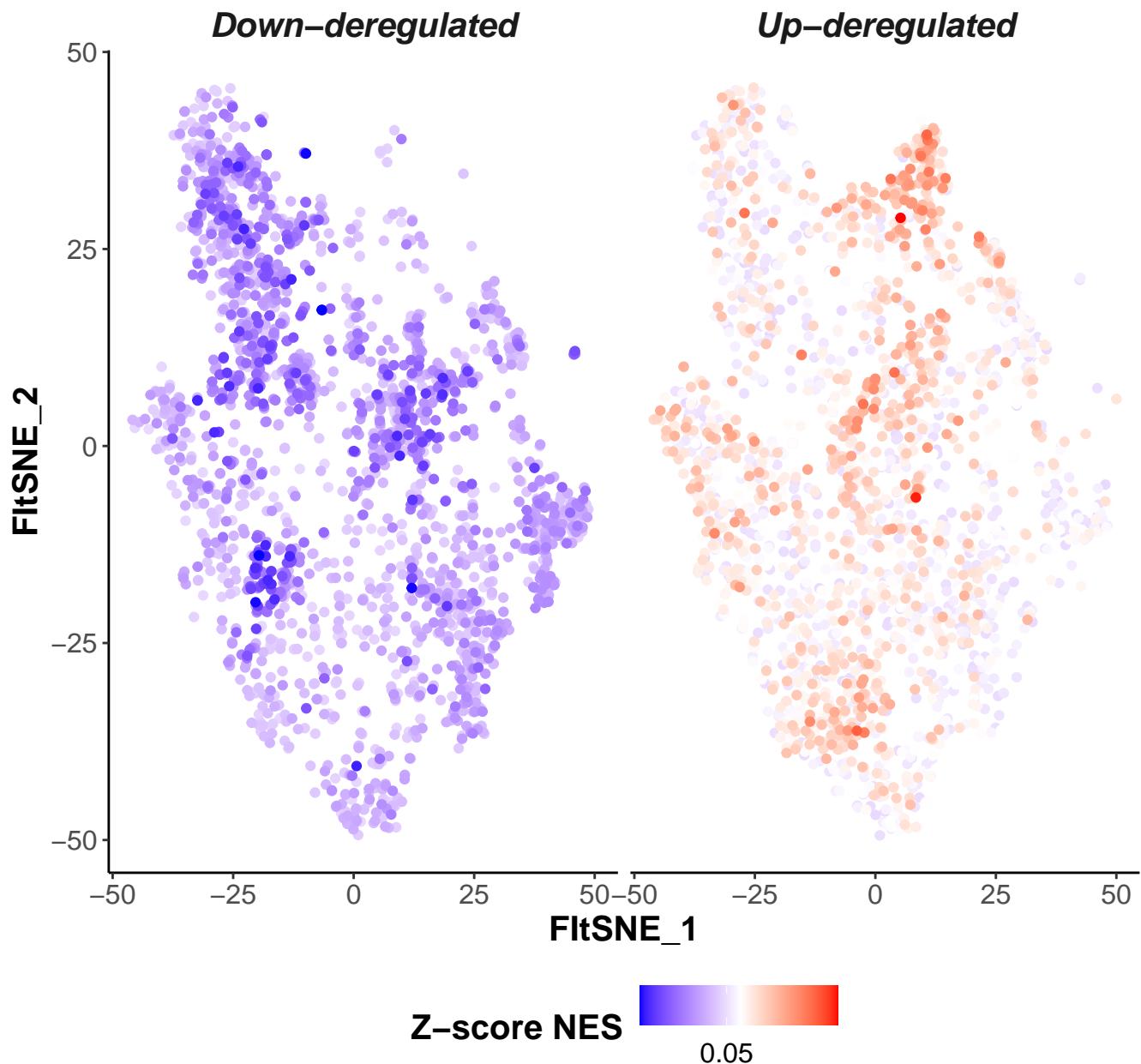


HALLMARK_HEDGEHOG_SIGNALING



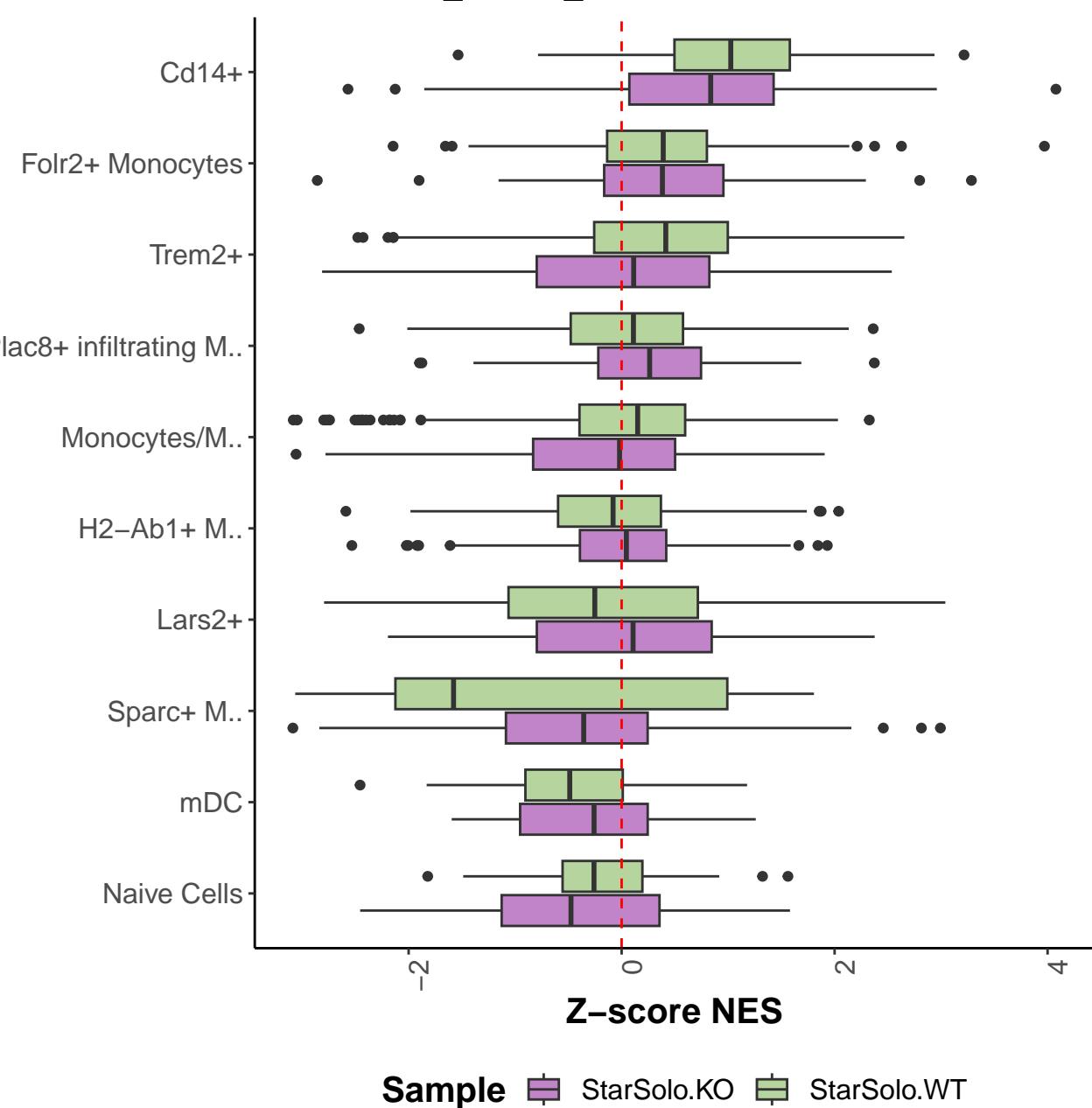


HALLMARK_HEME_METABOLISM

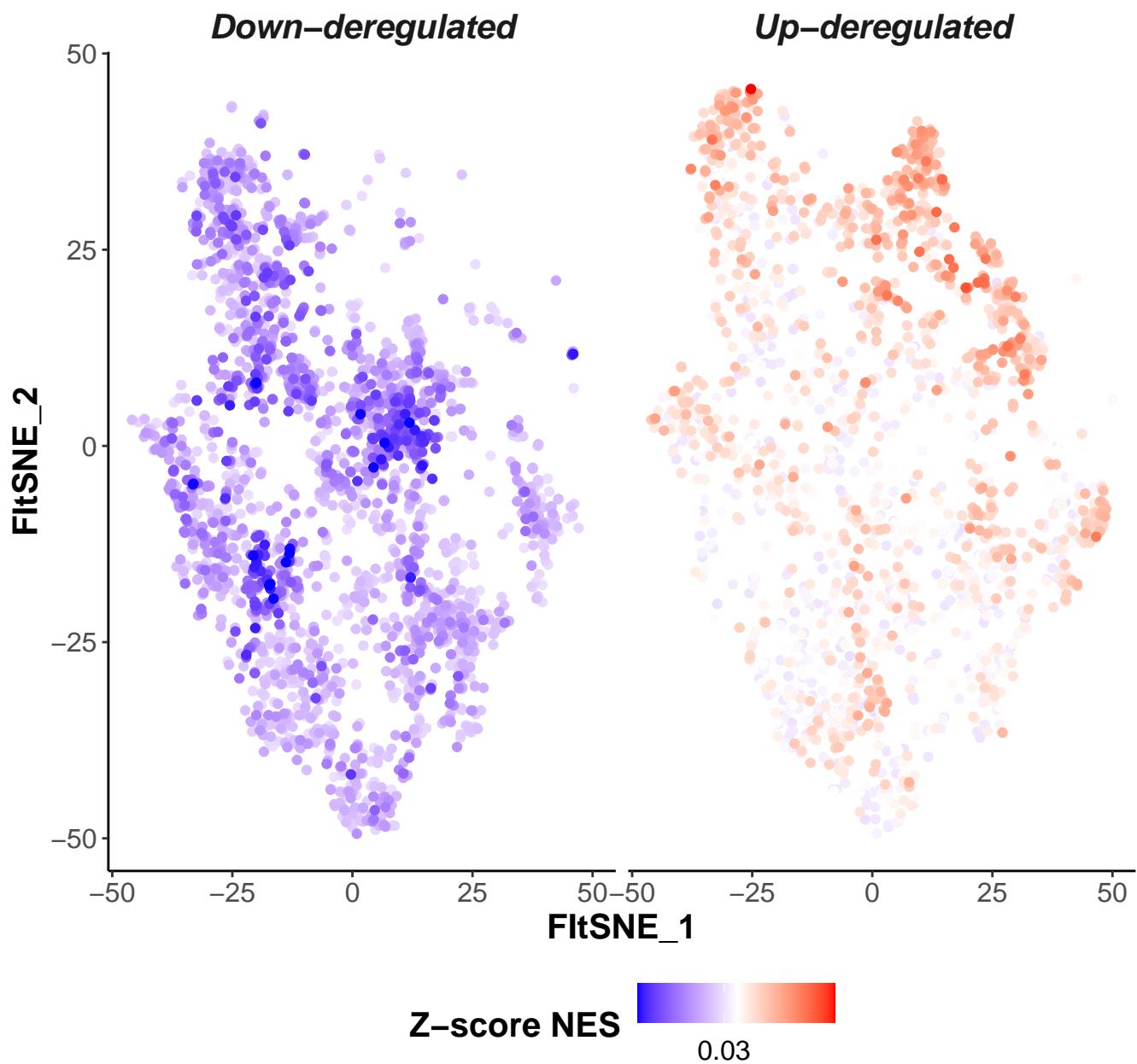


HALLMARK_HEME_METABOLISM

Subtype

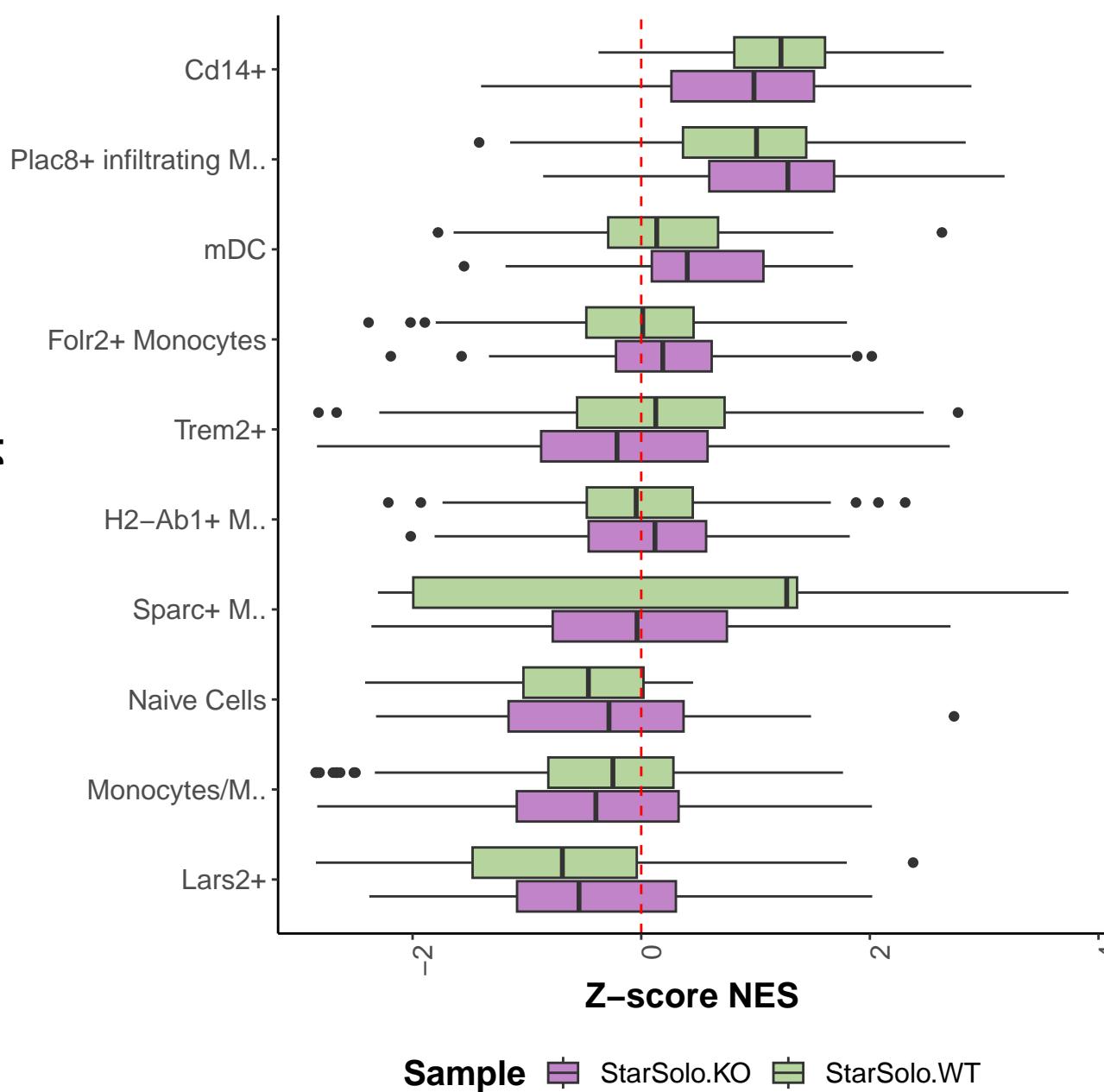


HALLMARK_HYPOXIA

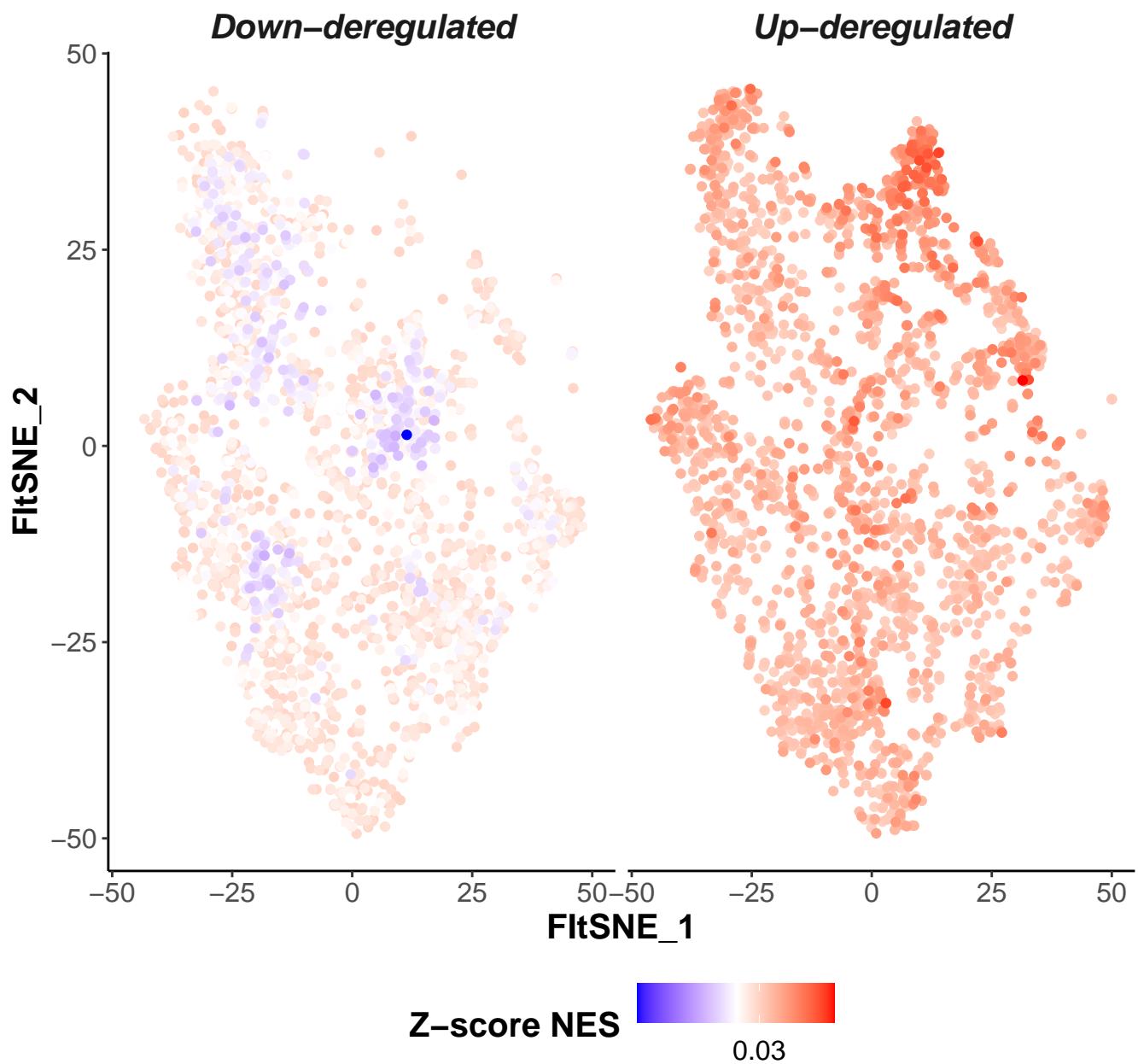


HALLMARK_HYPOXIA

Subtype

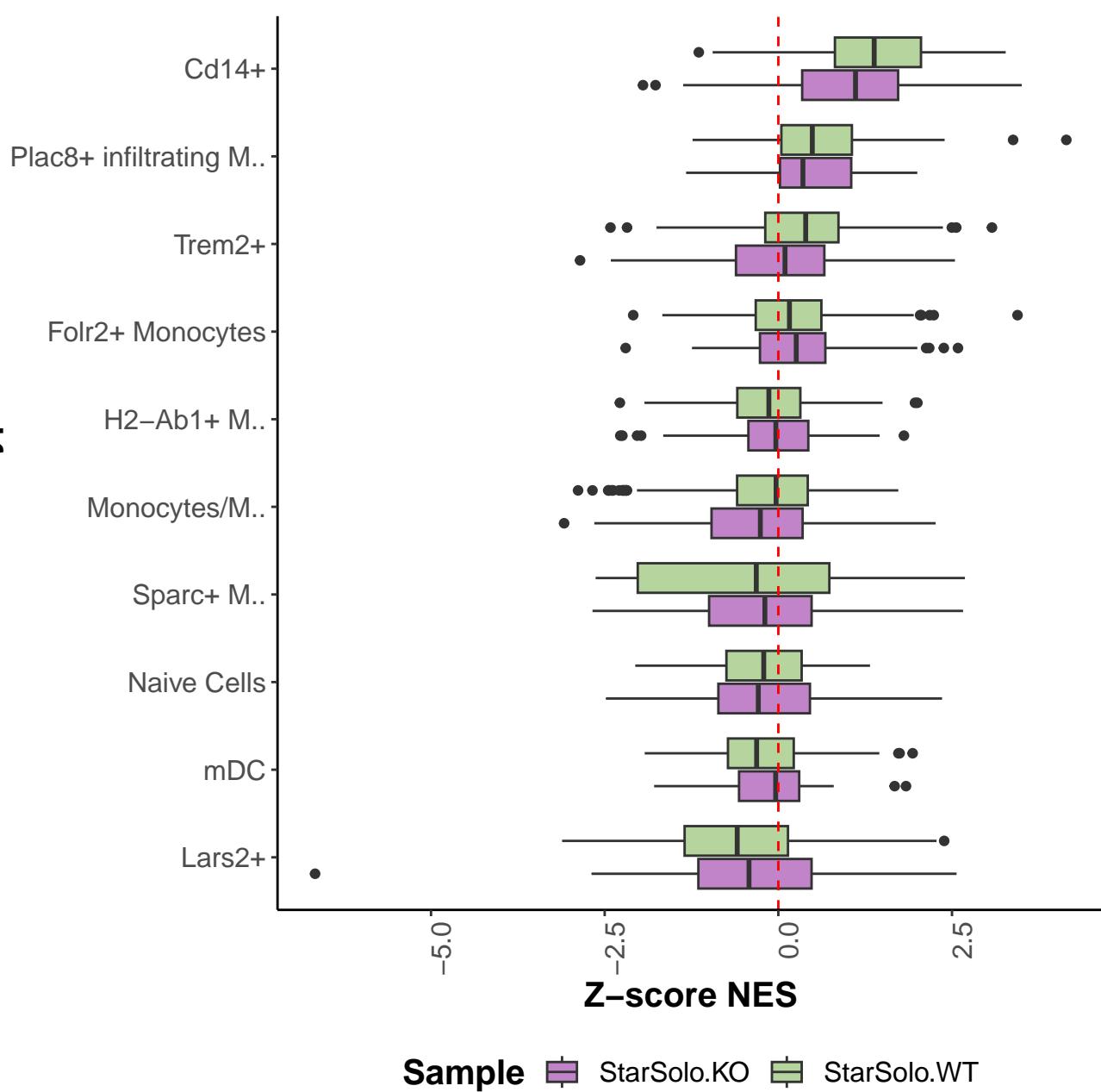


HALLMARK_IL2_STAT5_SIGNALING

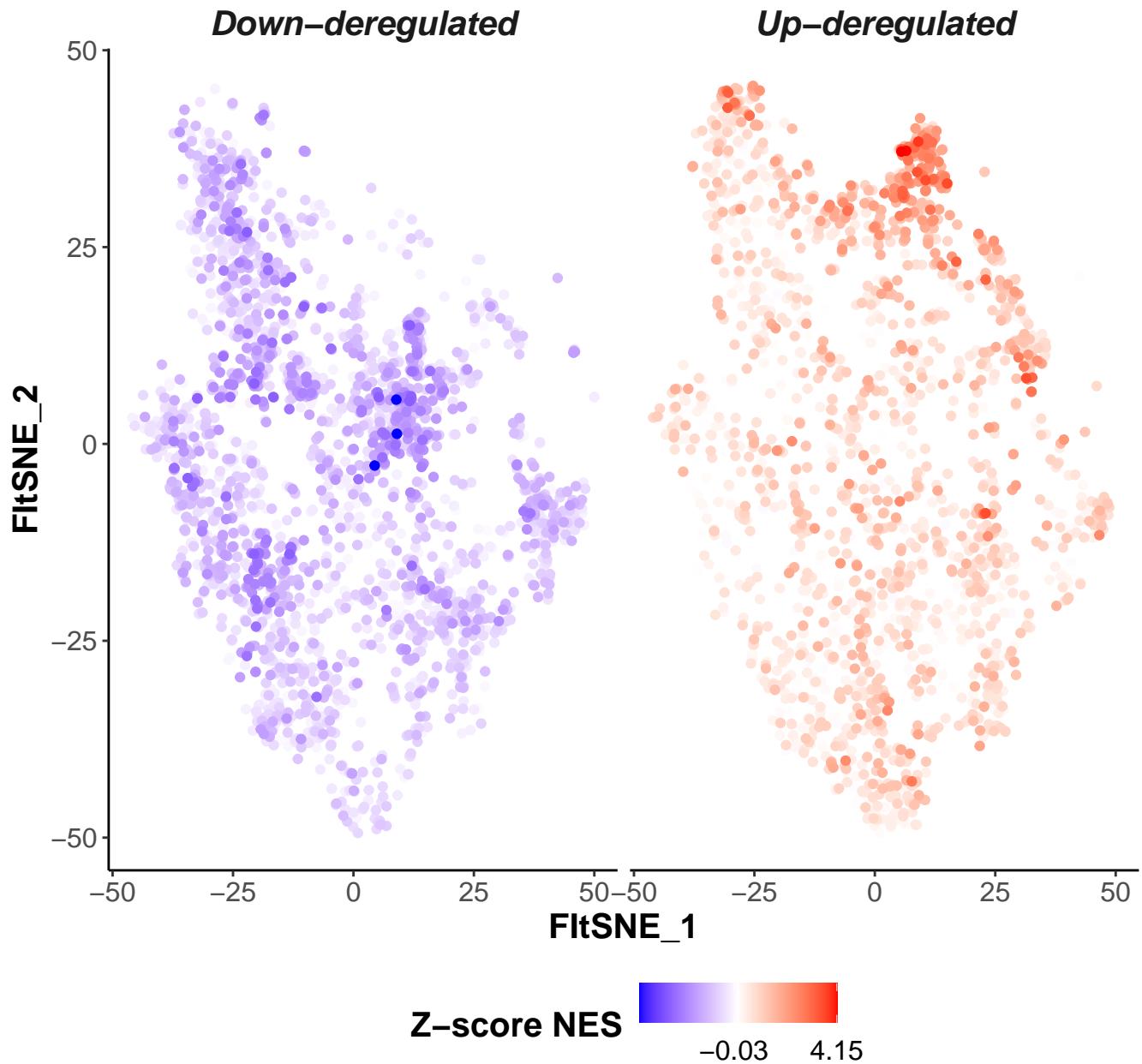


HALLMARK_IL2_STAT5_SIGNALING

Subtype

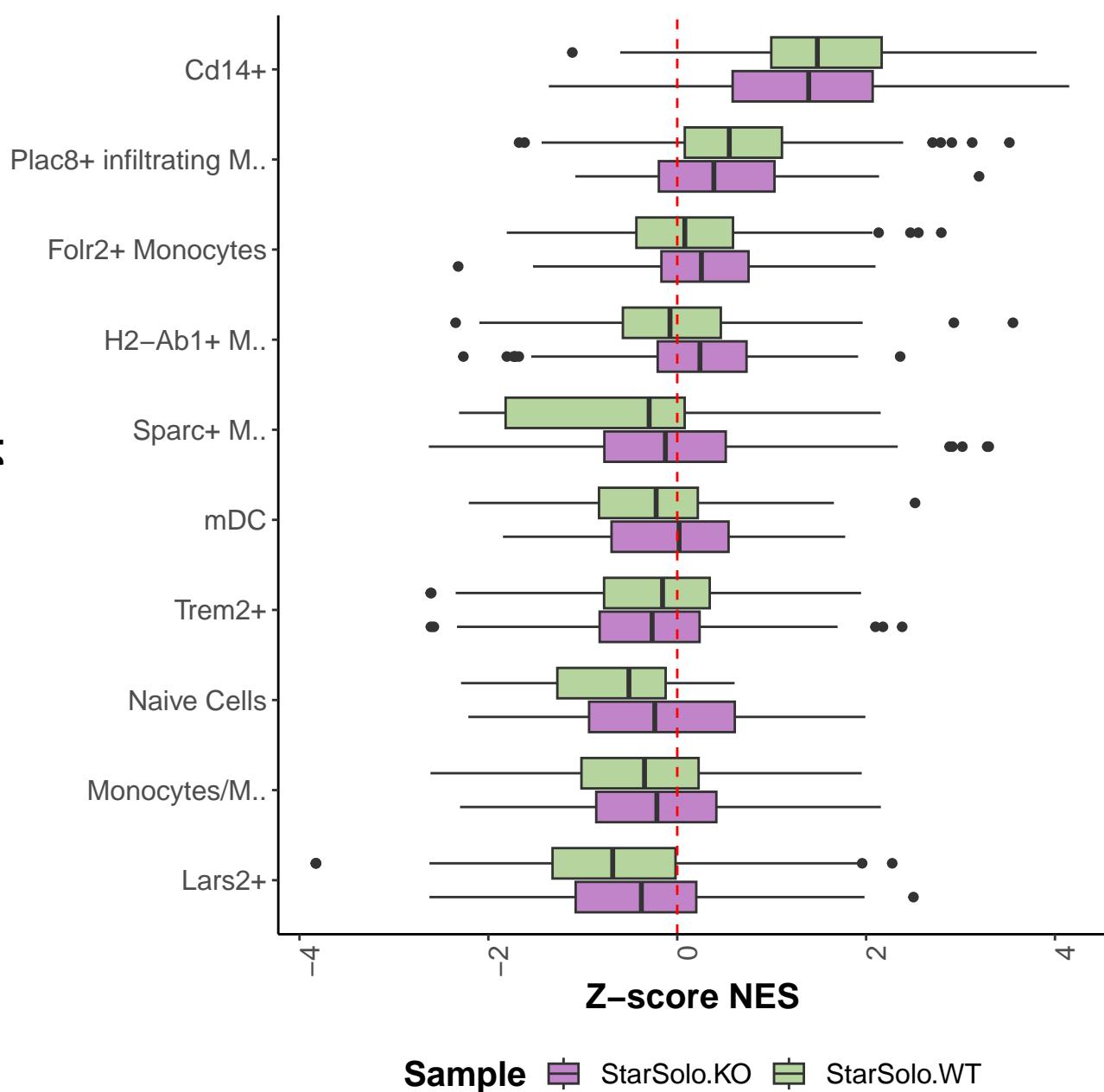


HALLMARK_IL6_JAK_STAT3_SIGNALING

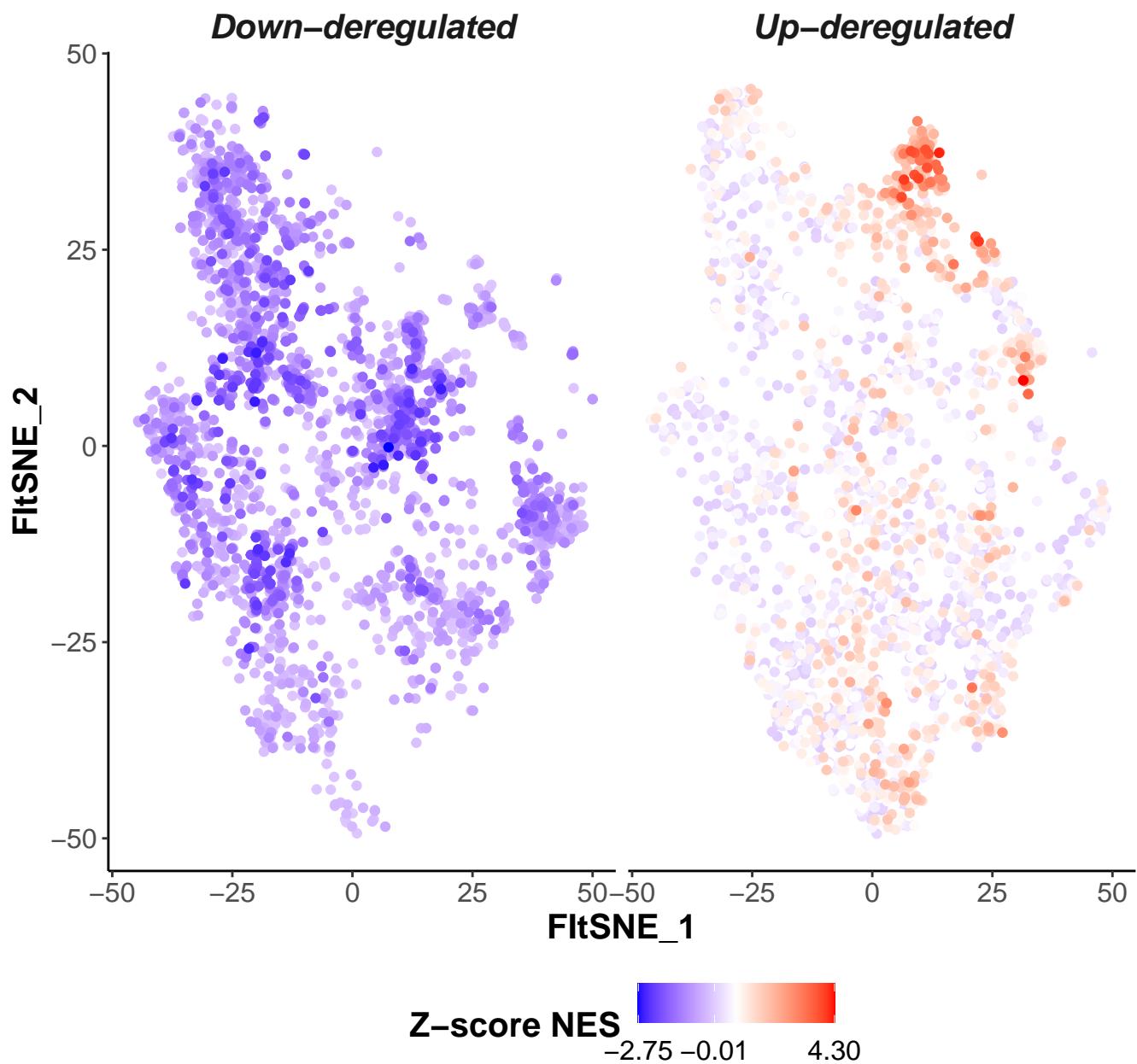


HALLMARK_IL6_JAK_STAT3_SIGNALING

Subtype

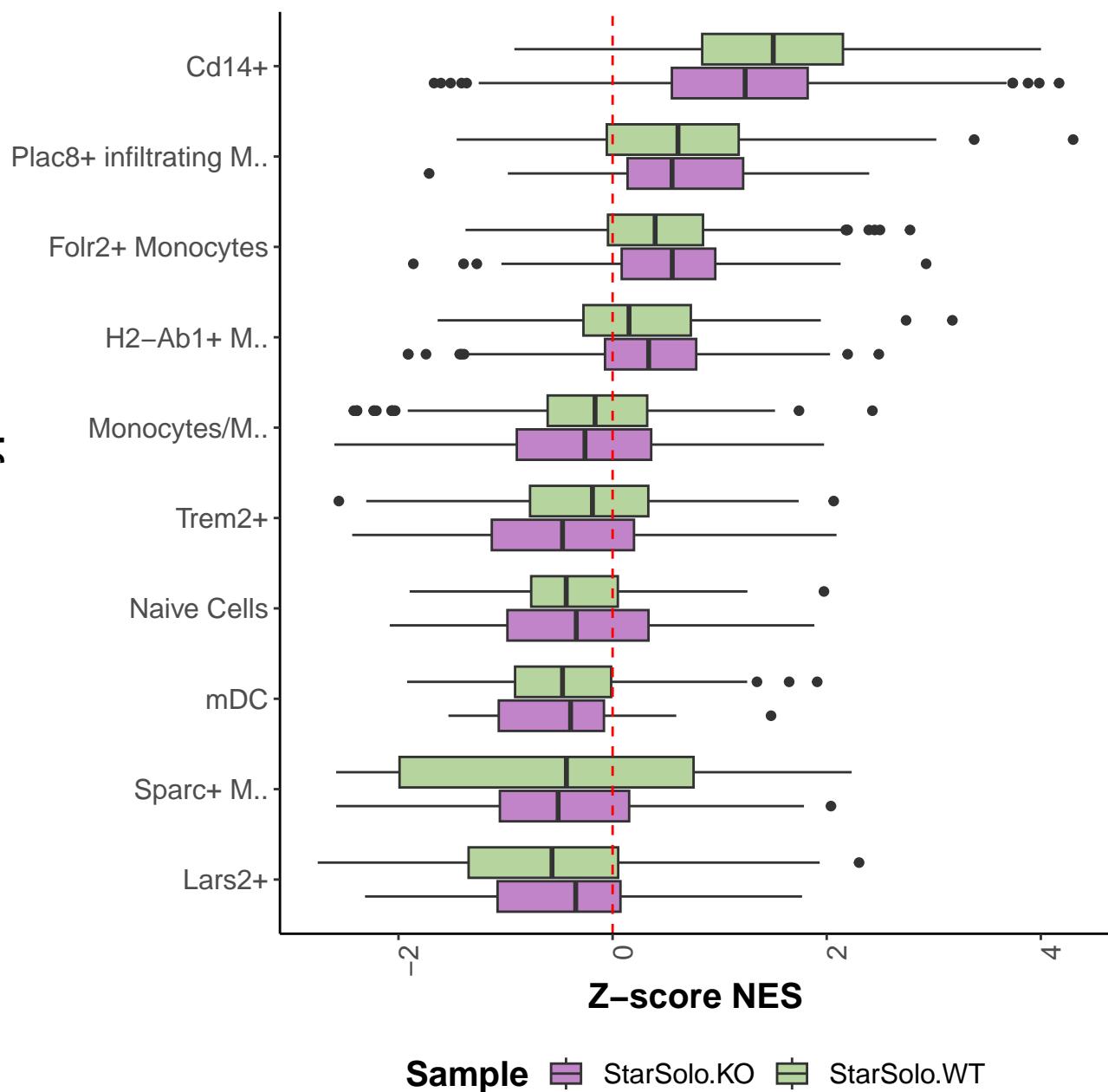


HALLMARK_INFLAMMATORY_RESPONSE

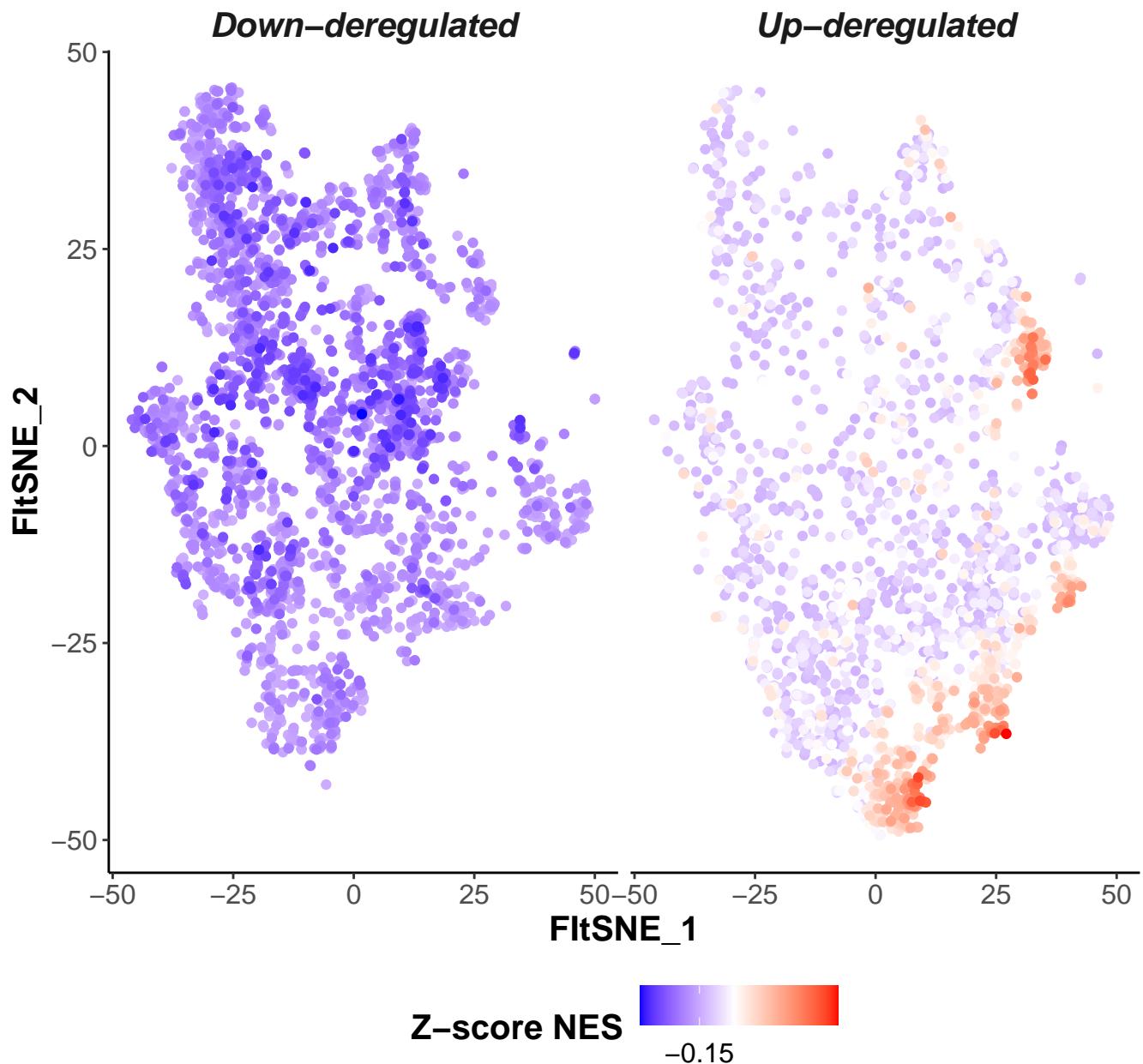


HALLMARK_INFLAMMATORY_RESPONSE

Subtype

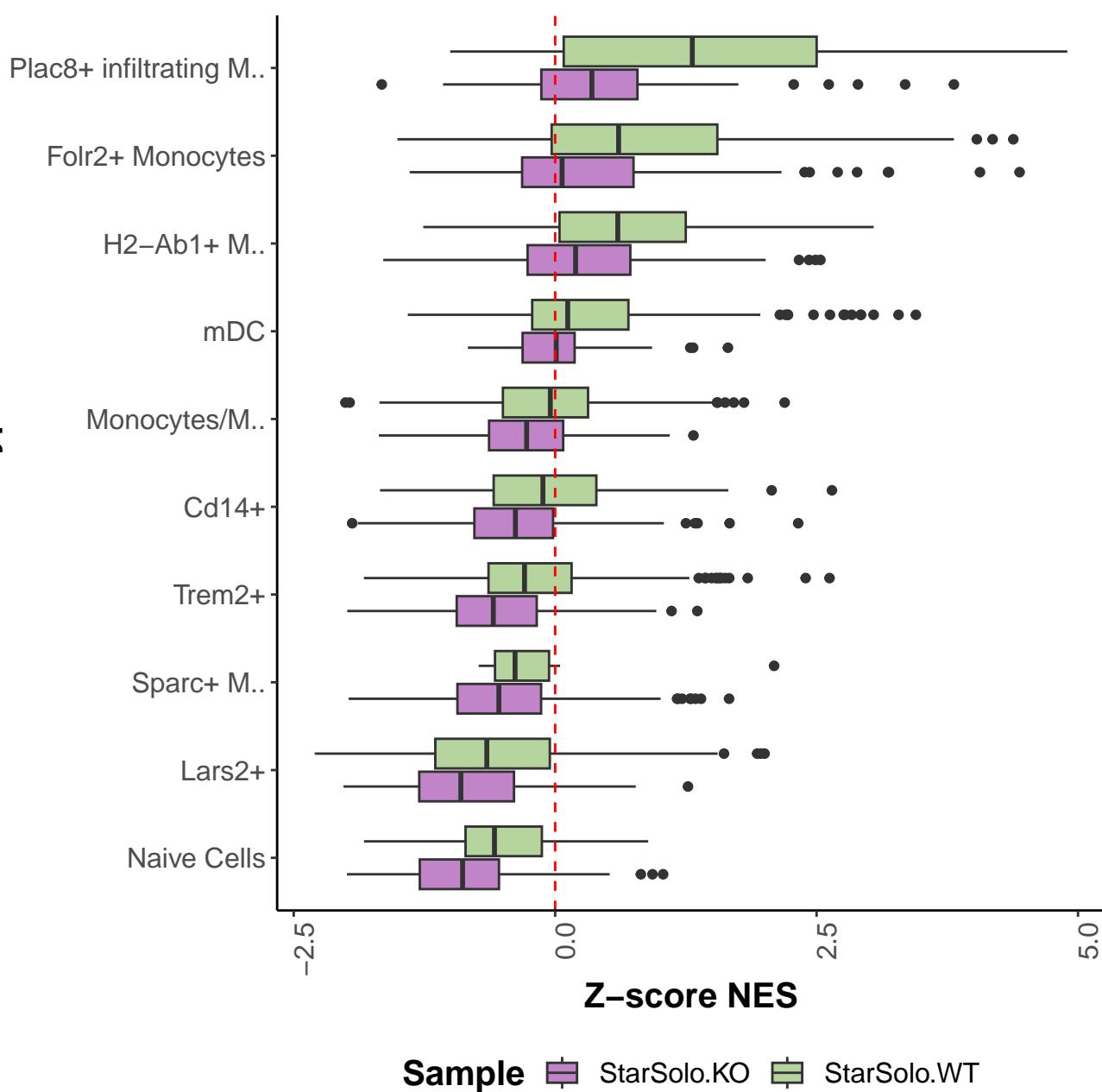


HALLMARK_INTERFERON_ALPHA_RESPONSE

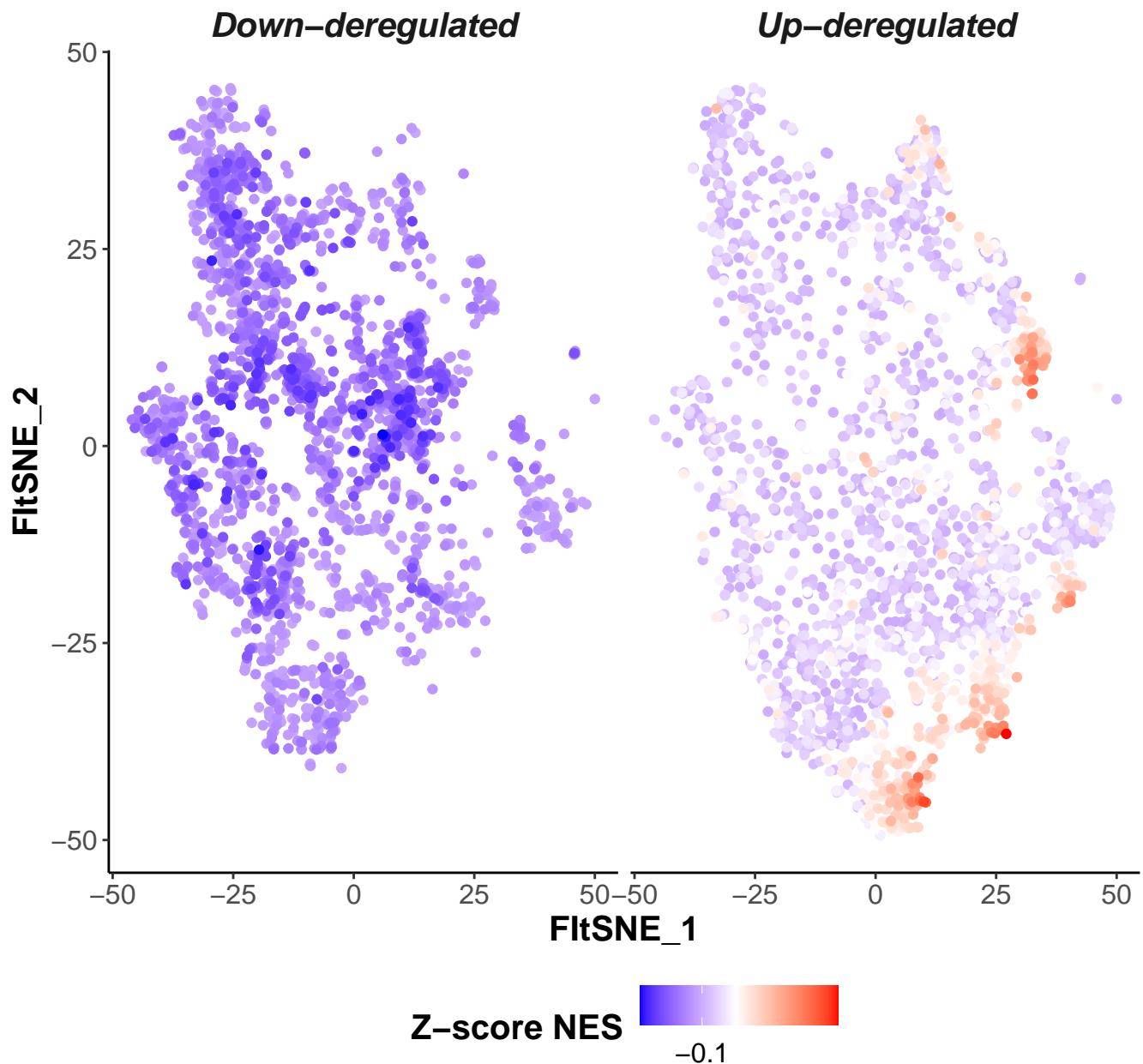


HALLMARK_INTERFERON_ALPHA_RESPONSE

Subtype

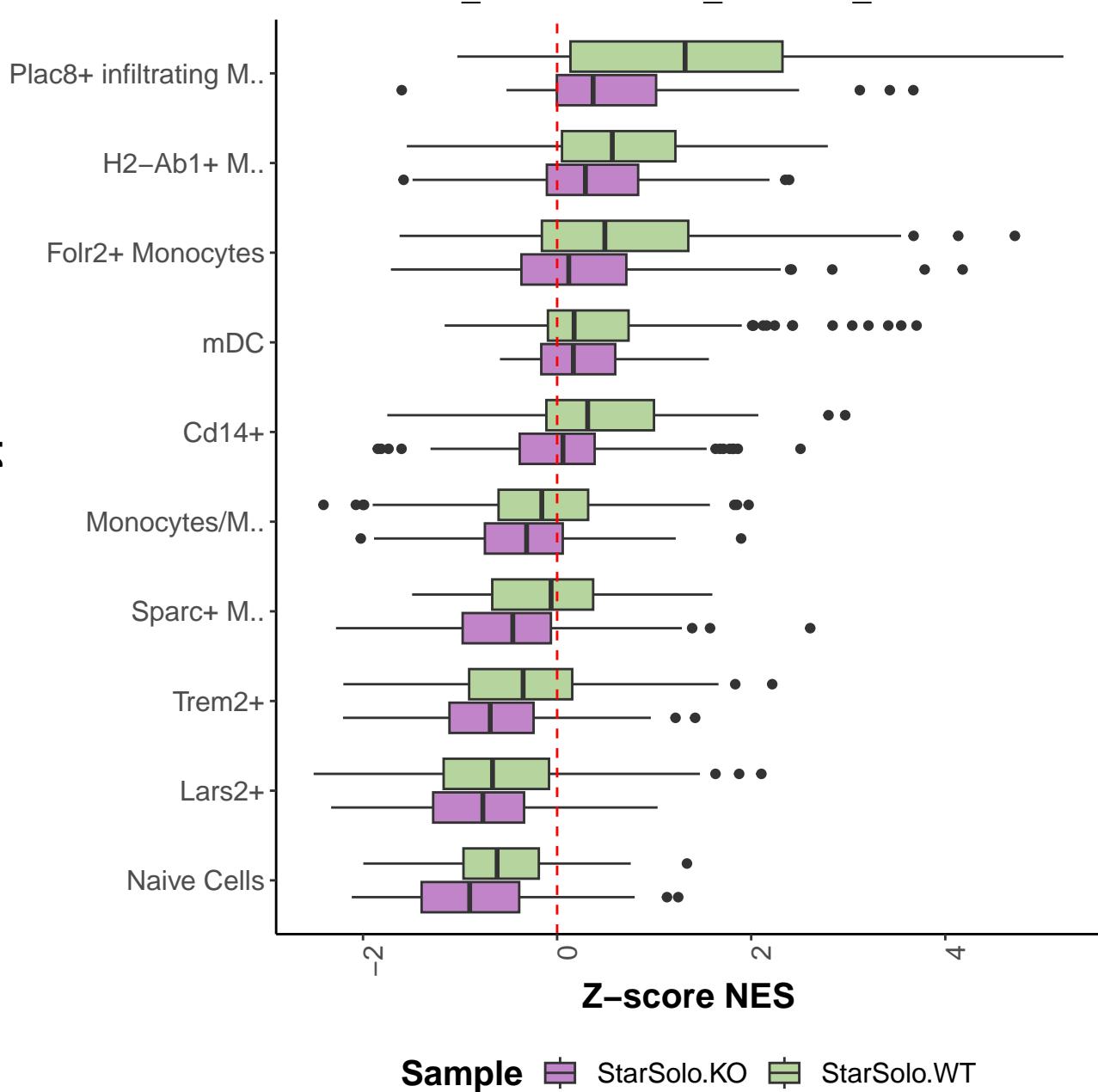


HALLMARK_INTERFERON_GAMMA_RESPONSE

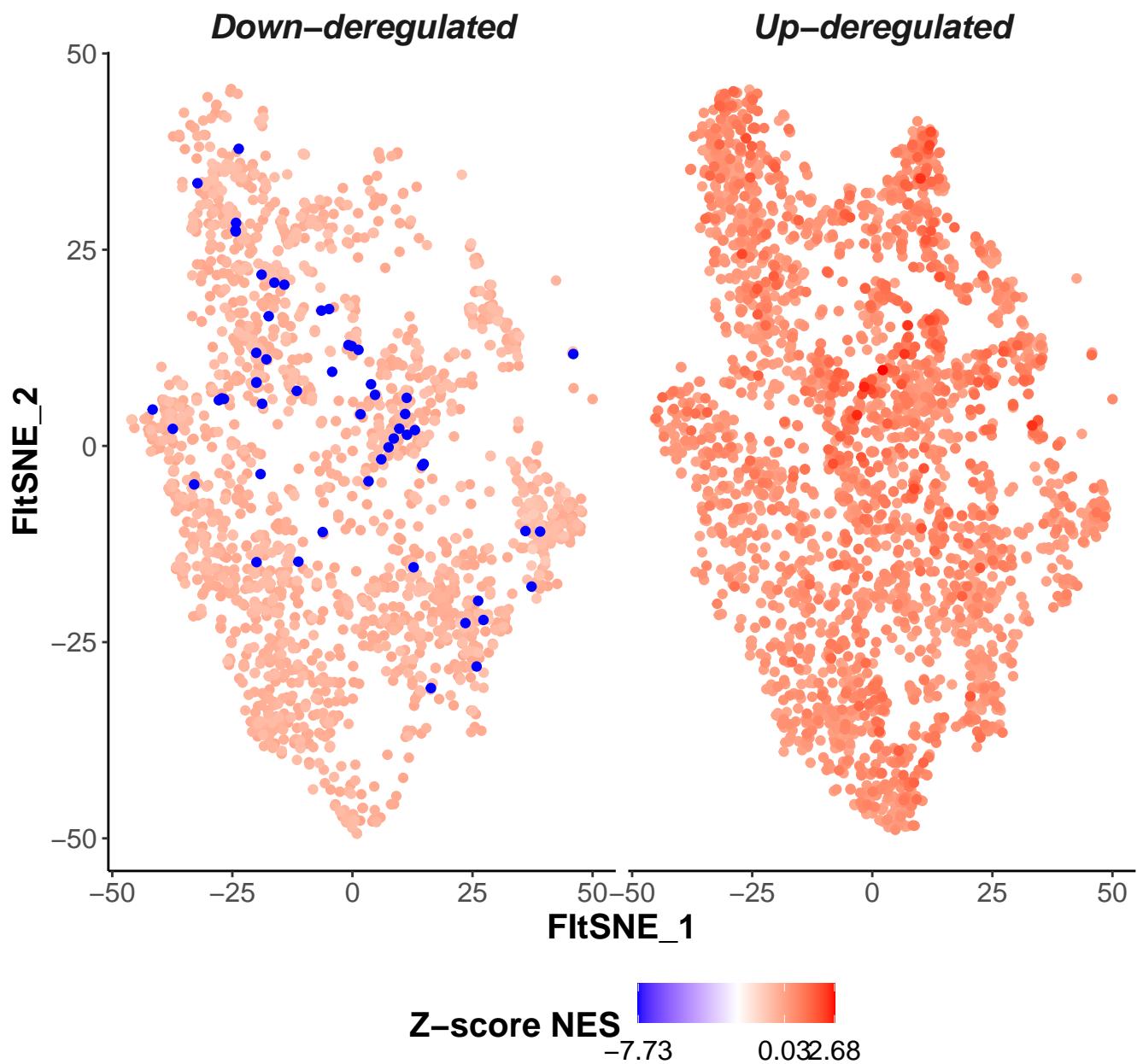


HALLMARK_INTERFERON_GAMMA_RESPONSE

Subtype



HALLMARK_KRAS_SIGNALING_DN



HALLMARK_KRAS_SIGNALING_DN

Subtype

Cd14+

Naive Cells

Plac8+ infiltrating M..

Lars2+

Folr2+ Monocytes

Sparc+ M..

H2-Ab1+ M..

Trem2+

Monocytes/M..

mDC

-7.5

-5.0

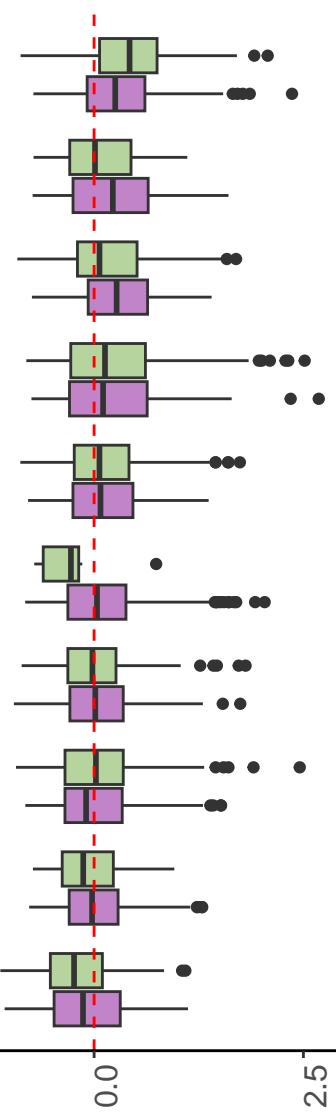
-2.5

0.0

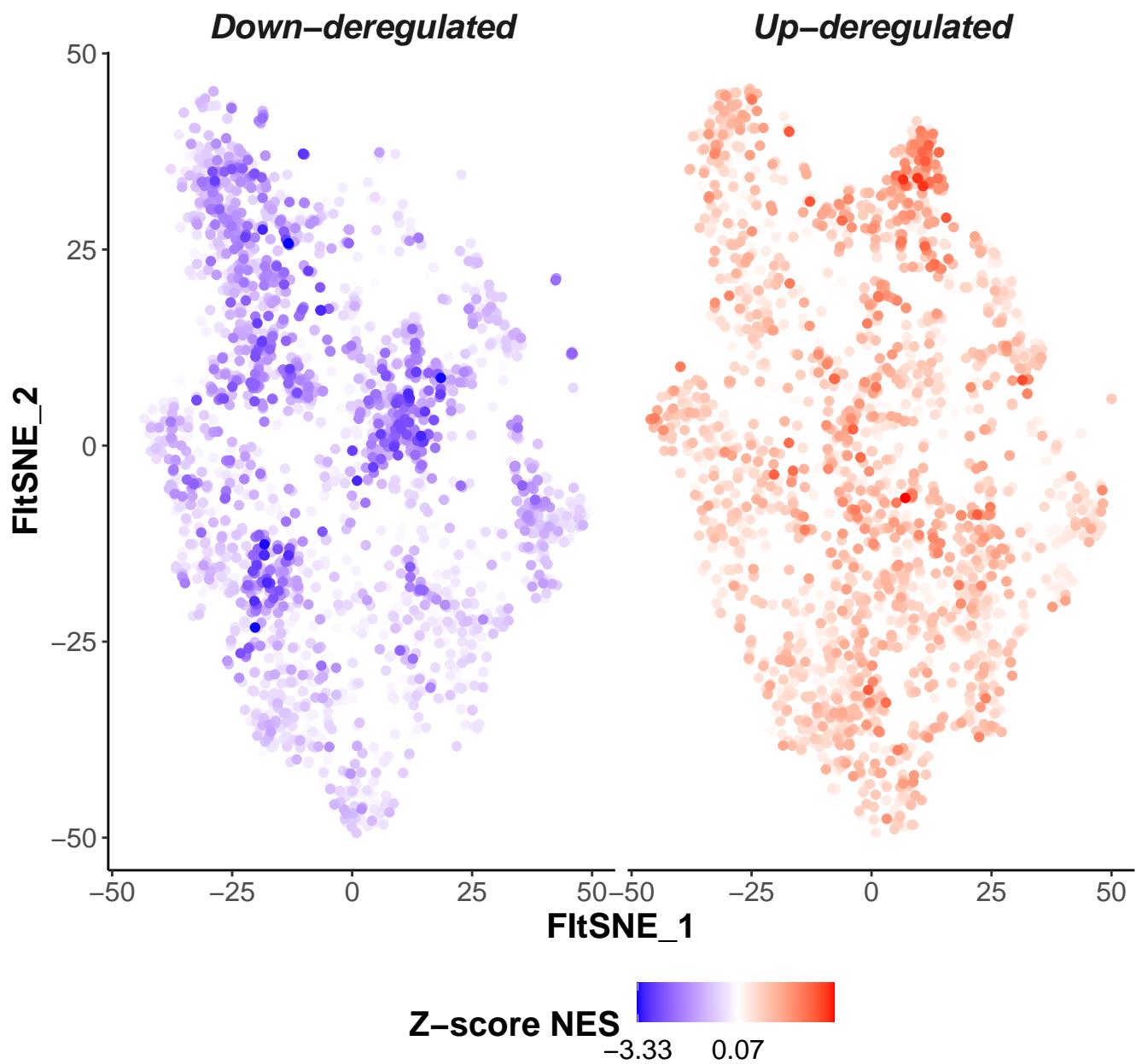
2.5

Z-score NES

Sample  StarSolo.KO  StarSolo.WT

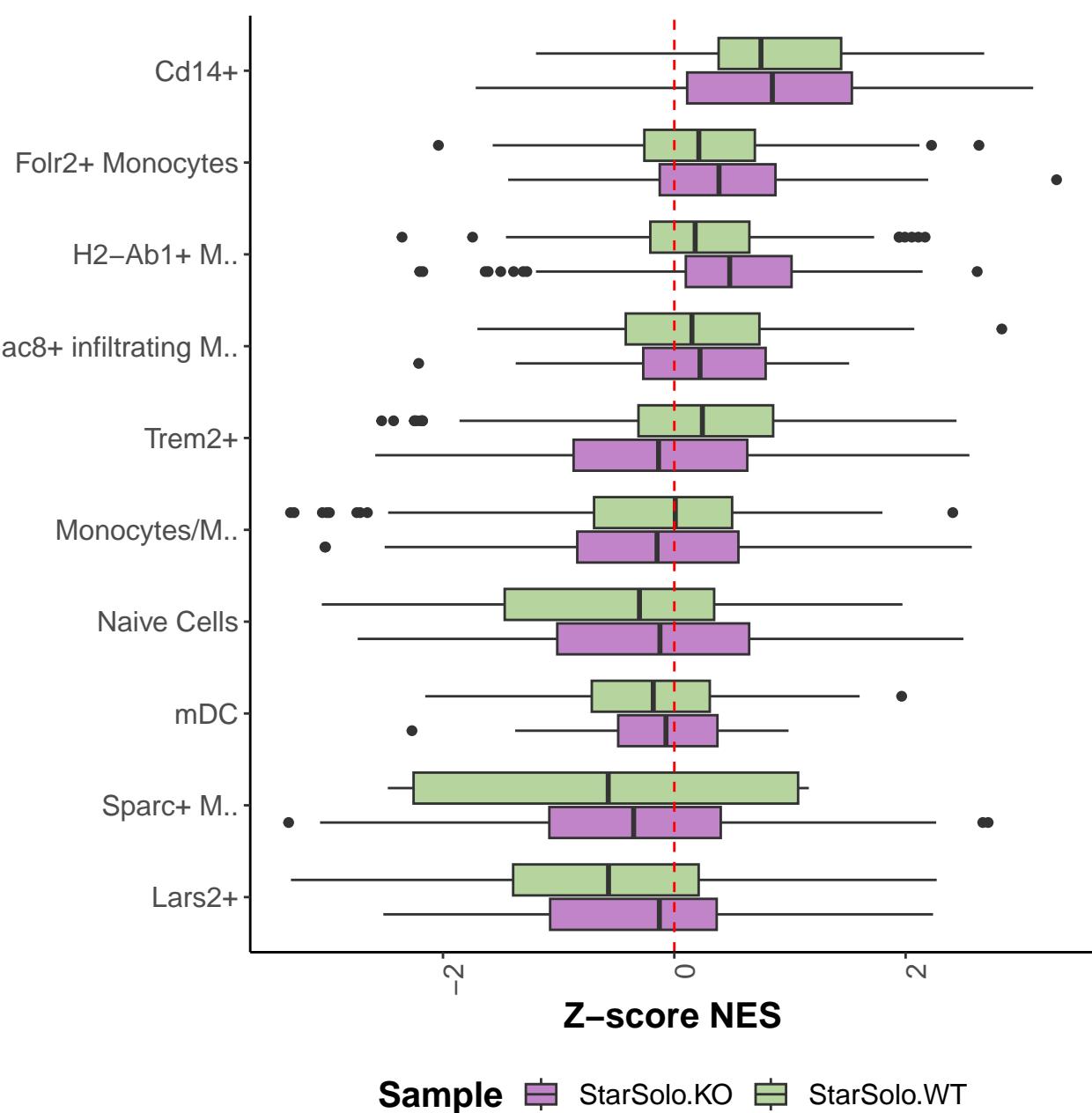


HALLMARK_KRAS_SIGNALING_UP



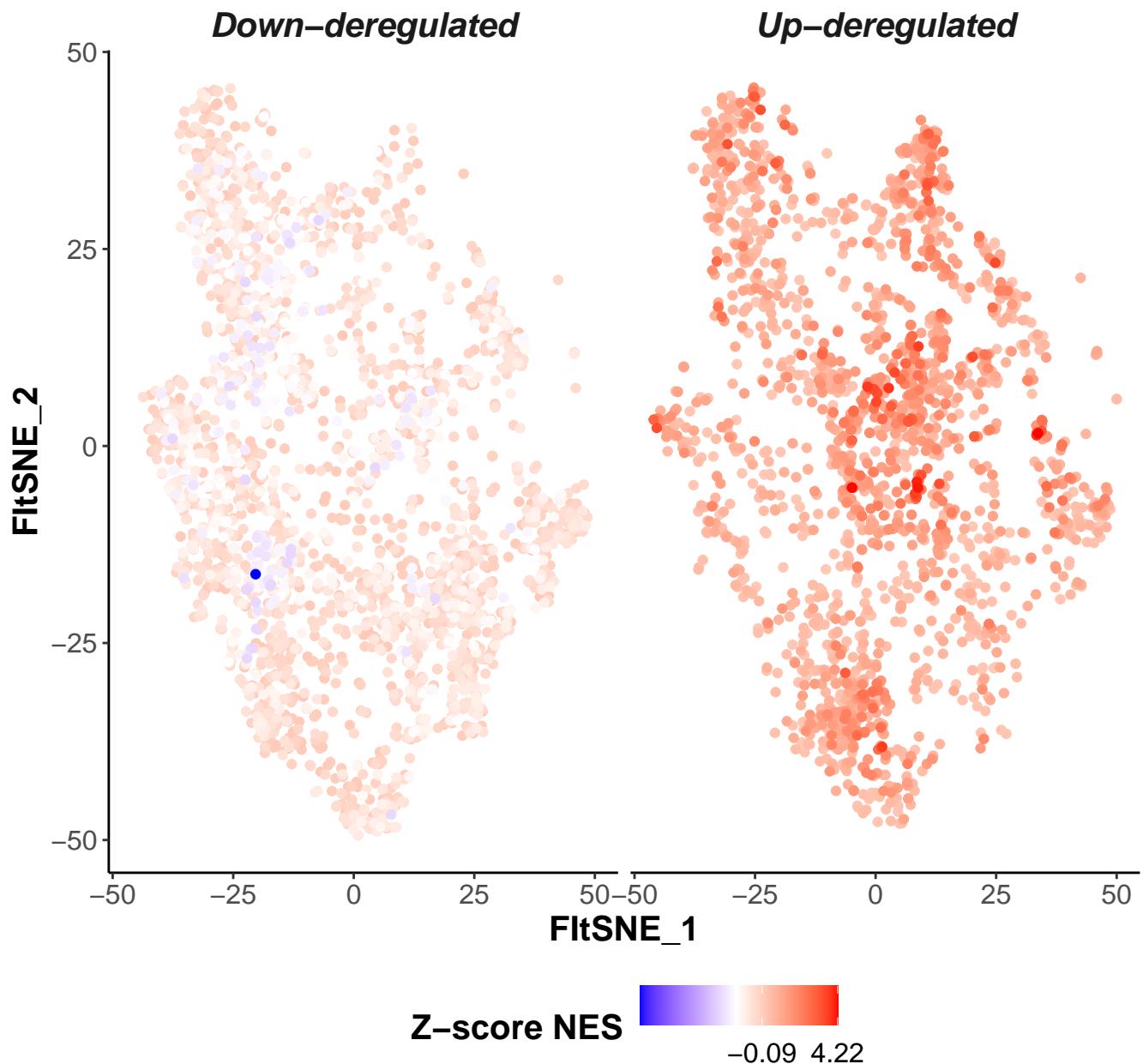
HALLMARK_KRAS_SIGNALING_UP

Subtype



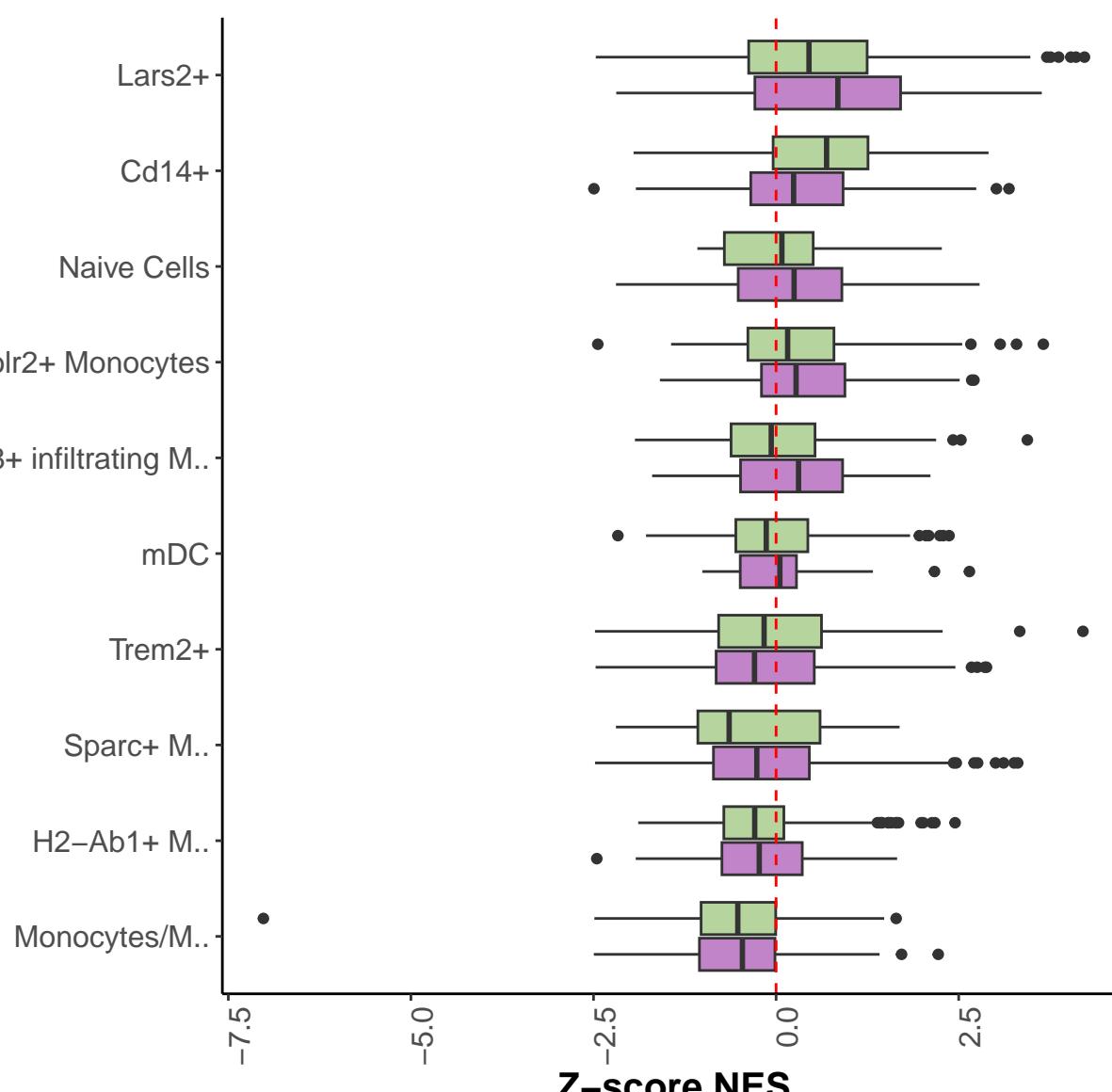
Sample █ StarSolo.KO █ StarSolo.WT

HALLMARK_MITOTIC_SPINDLE



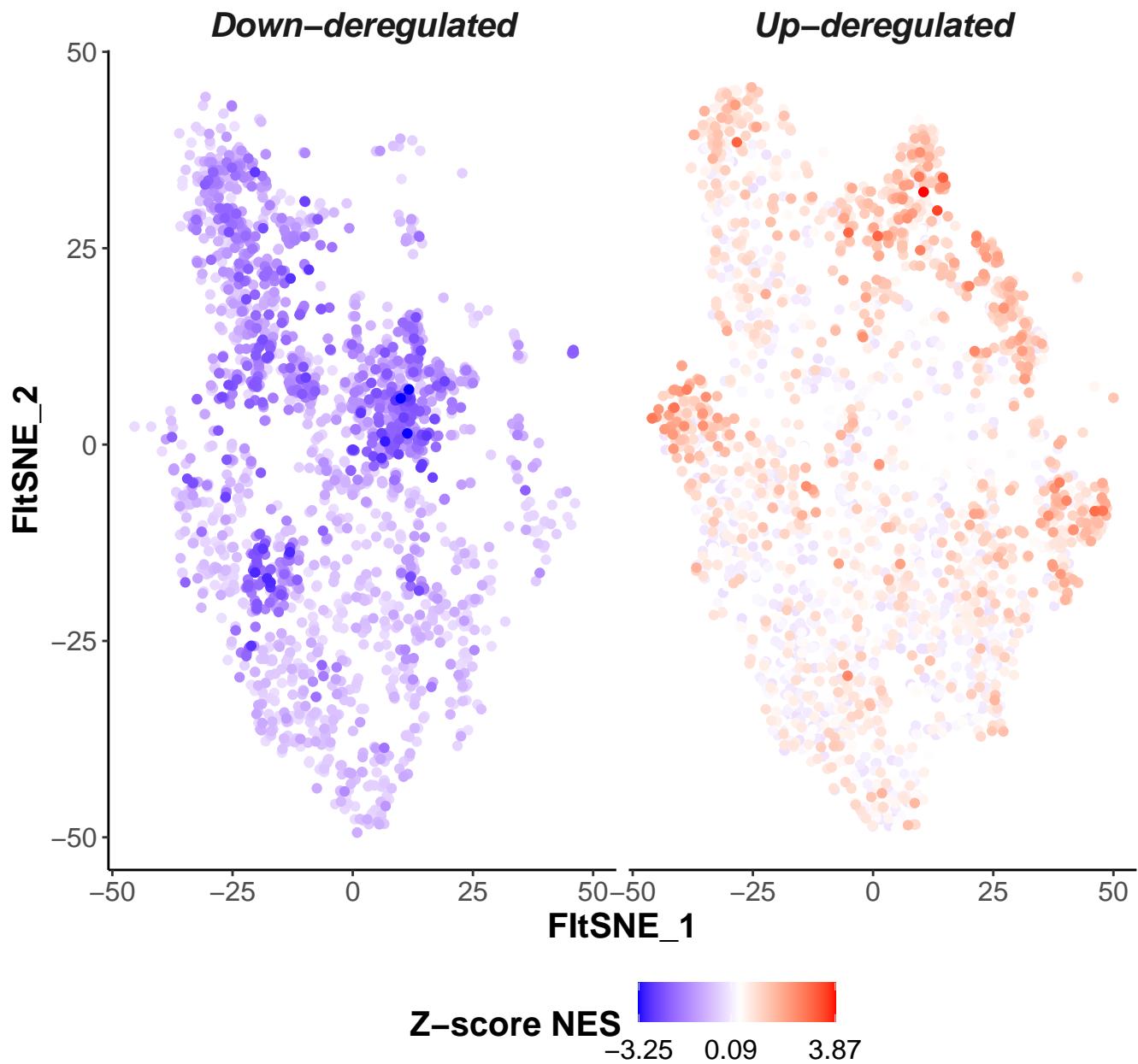
HALLMARK_MITOTIC_SPINDLE

Subtype



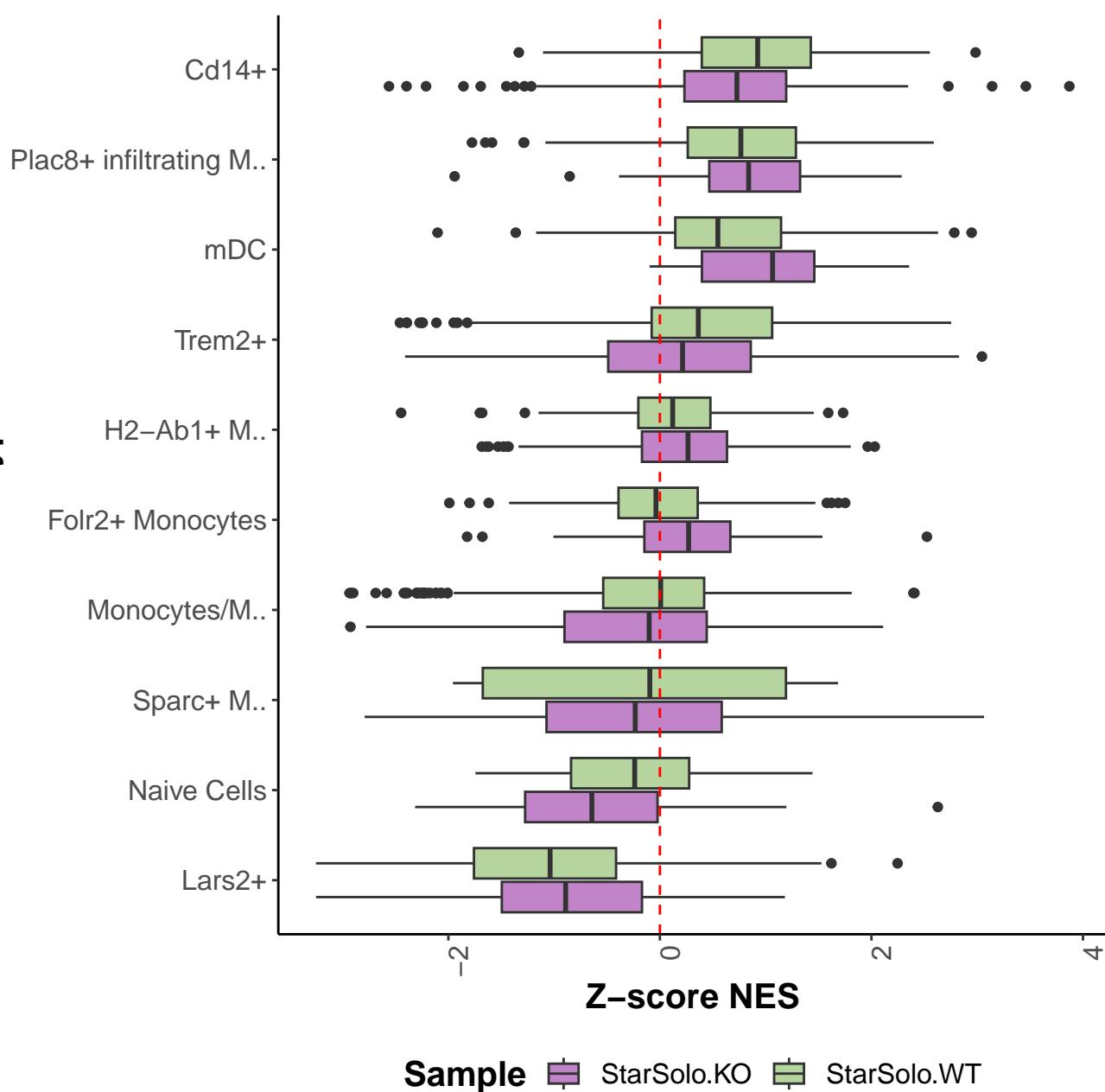
Sample StarSolo.KO StarSolo.WT

HALLMARK_MTORC1_SIGNALING

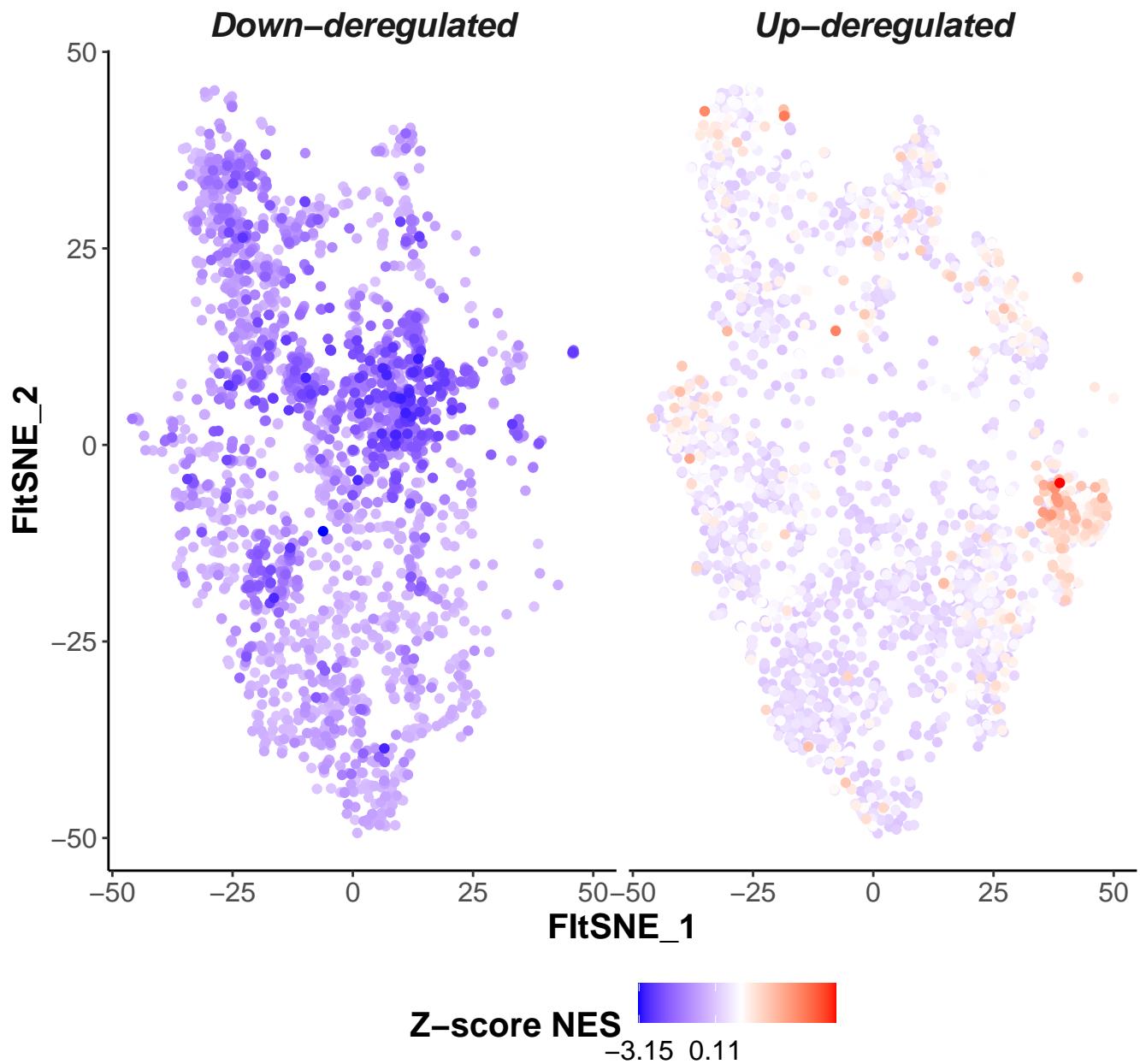


HALLMARK_MTORC1_SIGNALING

Subtype

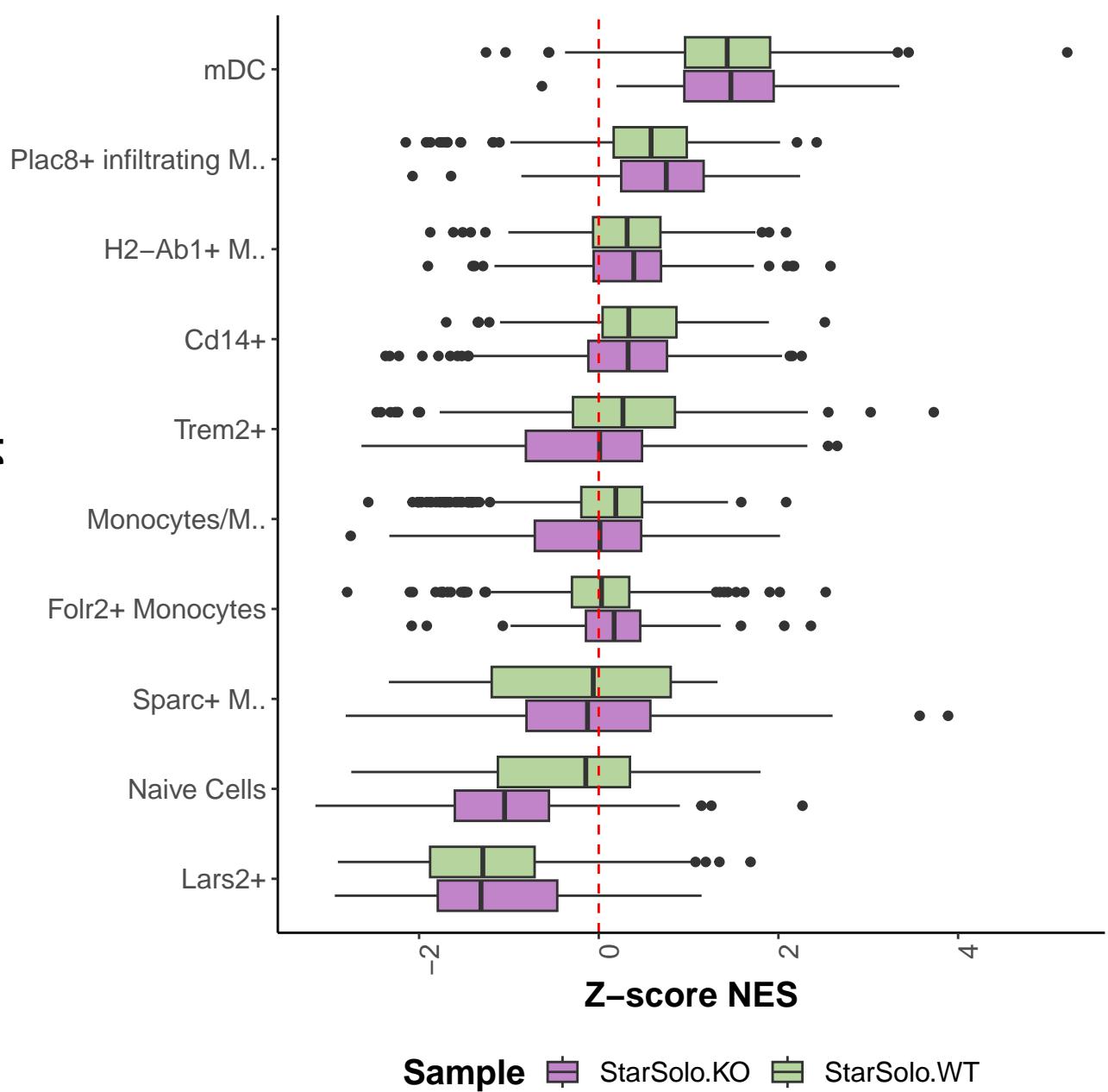


HALLMARK_MYC_TARGETS_V1



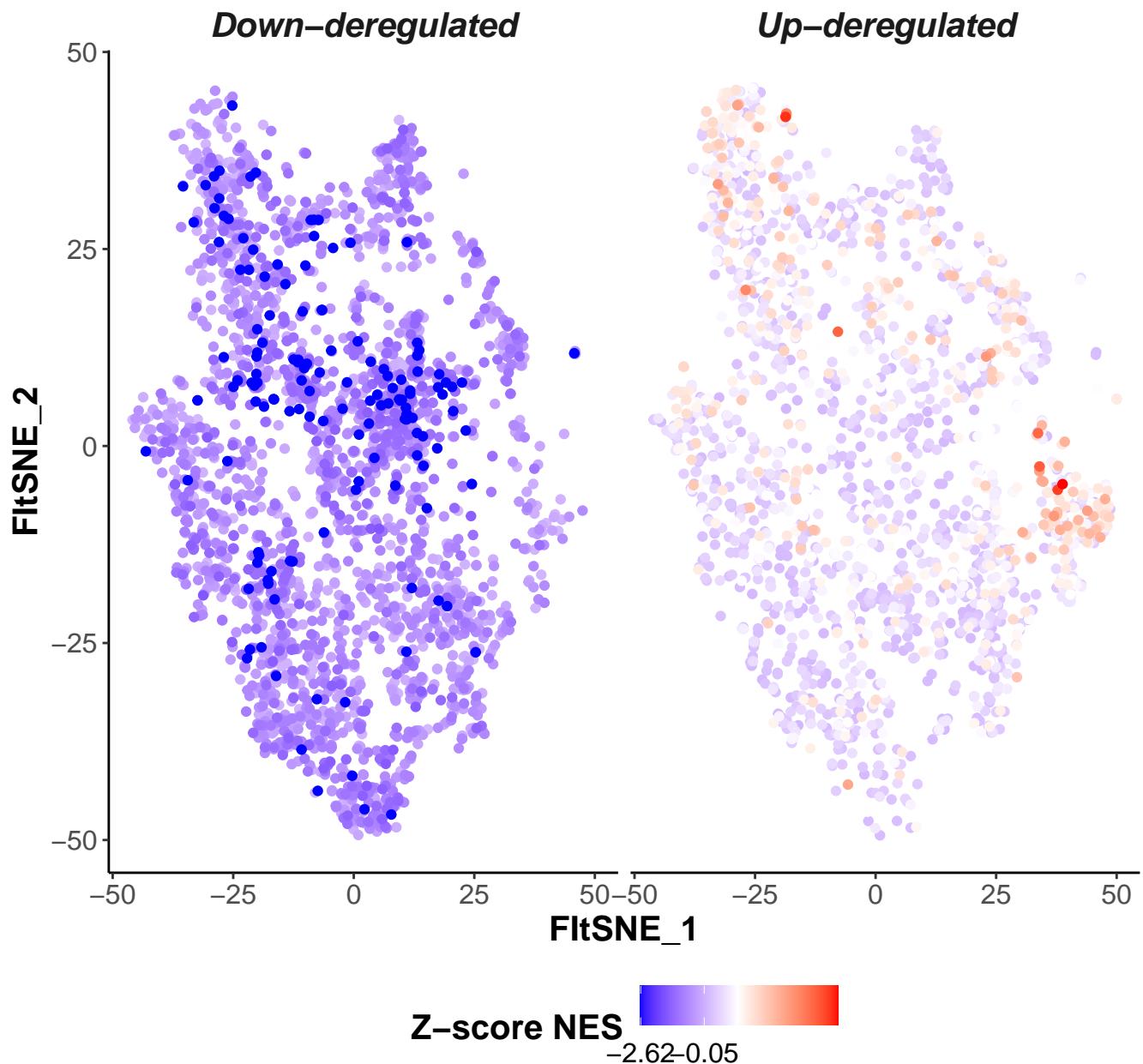
HALLMARK_MYC_TARGETS_V1

Subtype



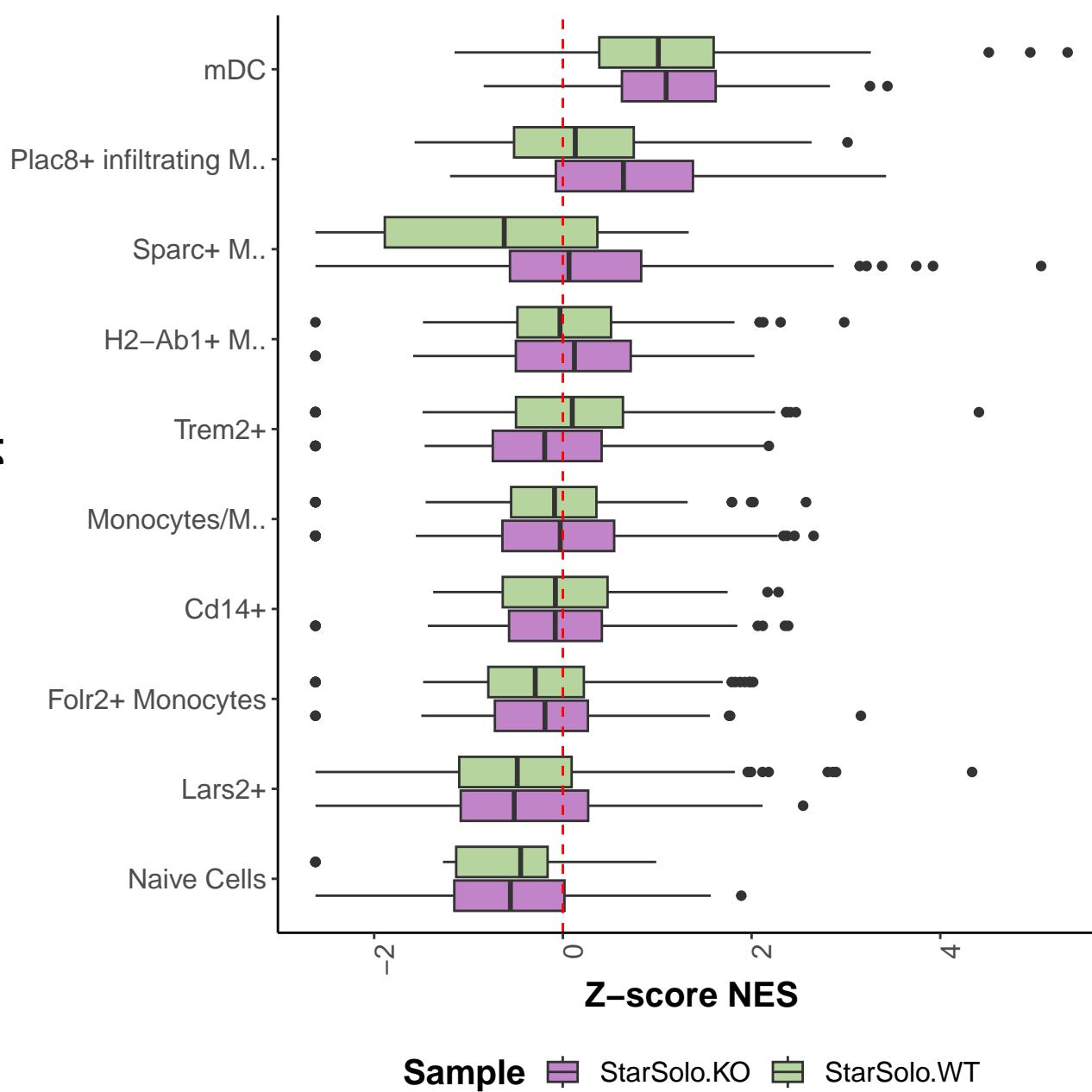
Sample StarSolo.KO StarSolo.WT

HALLMARK_MYC_TARGETS_V2

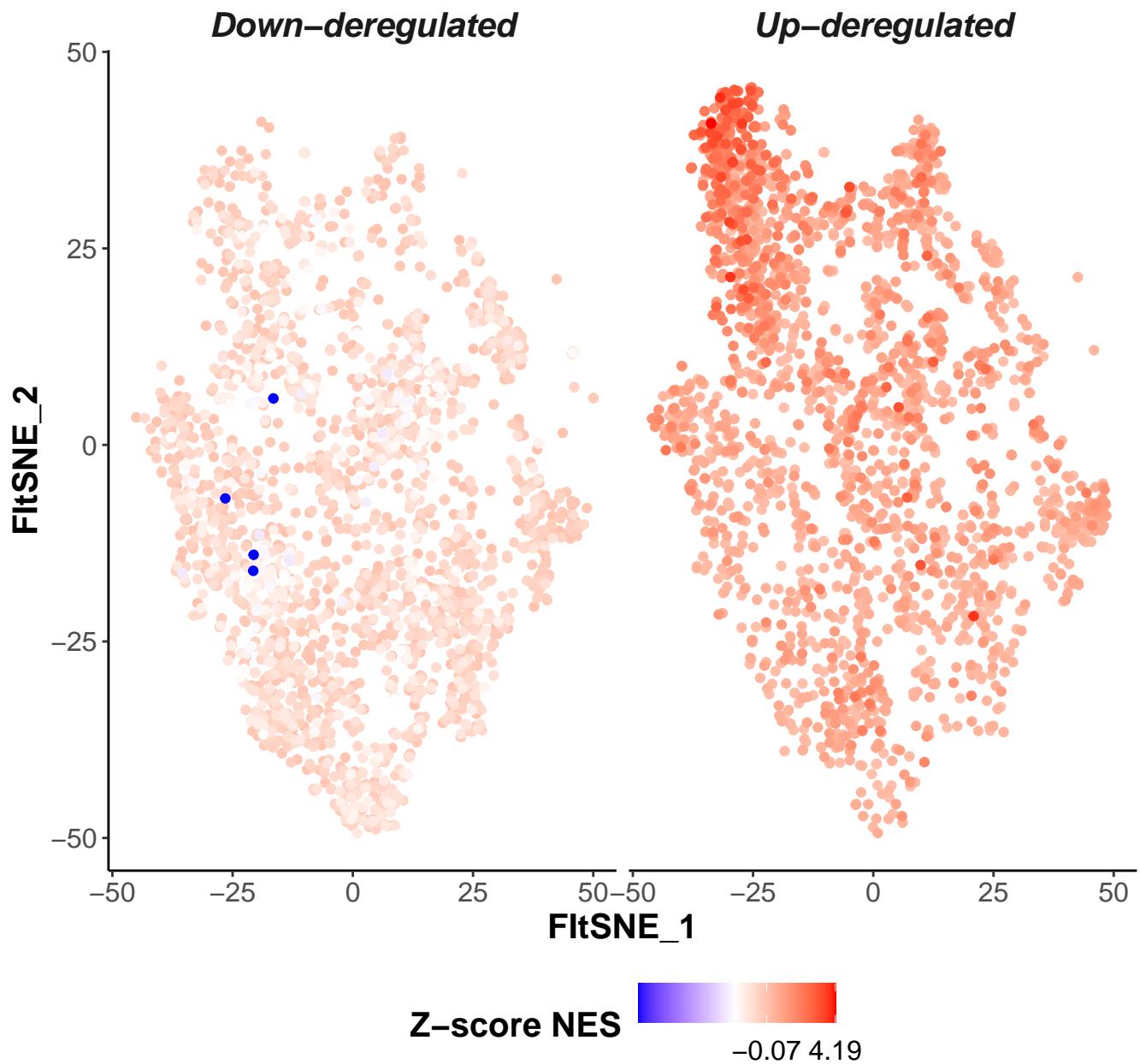


HALLMARK_MYC_TARGETS_V2

Subtype



HALLMARK_MYOGENESIS



HALLMARK_MYOGENESIS

Subtype

Sparc+ M..

Cd14+

Trem2+

mDC

Naive Cells

Plac8+ infiltrating M..

Lars2+

H2-Ab1+ M..

Folr2+ Monocytes

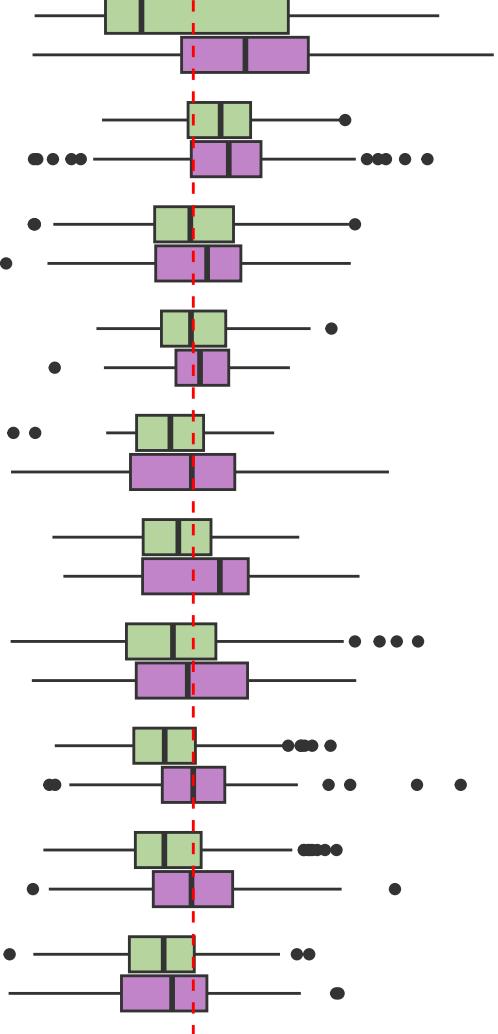
Monocytes/M..

-5

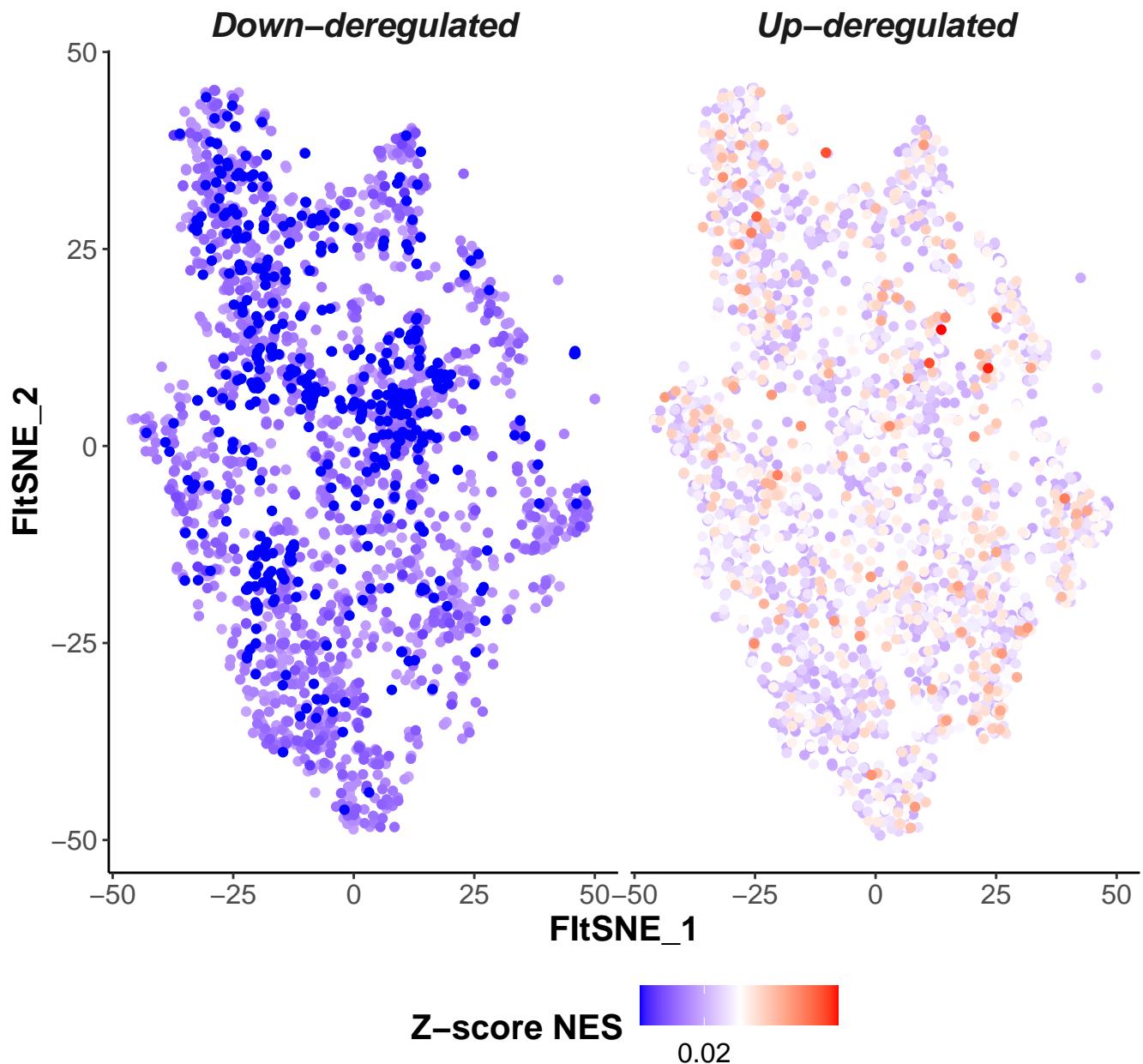
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Z-score NES

Sample  StarSolo.KO  StarSolo.WT

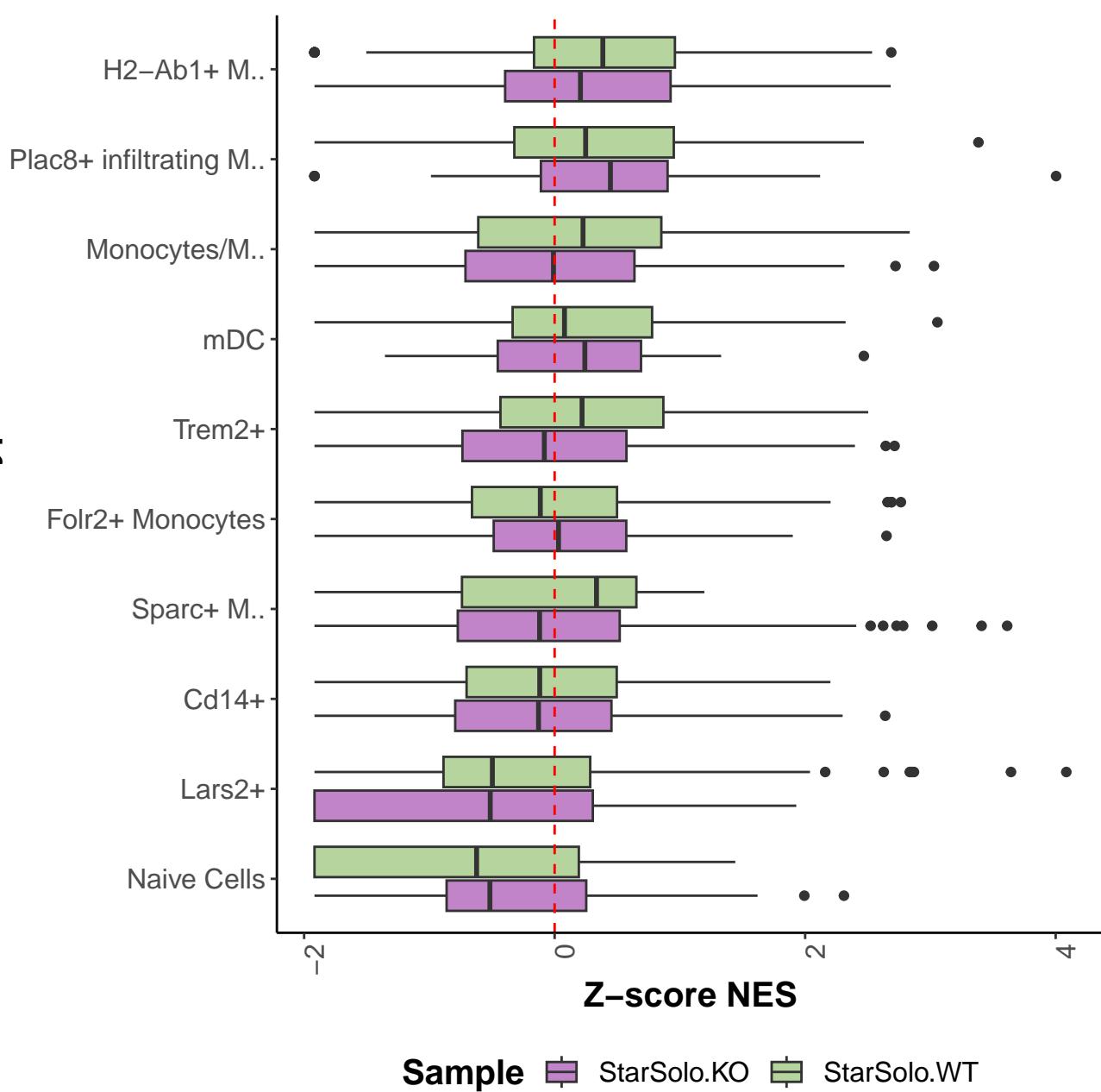


HALLMARK_NOTCH_SIGNALING

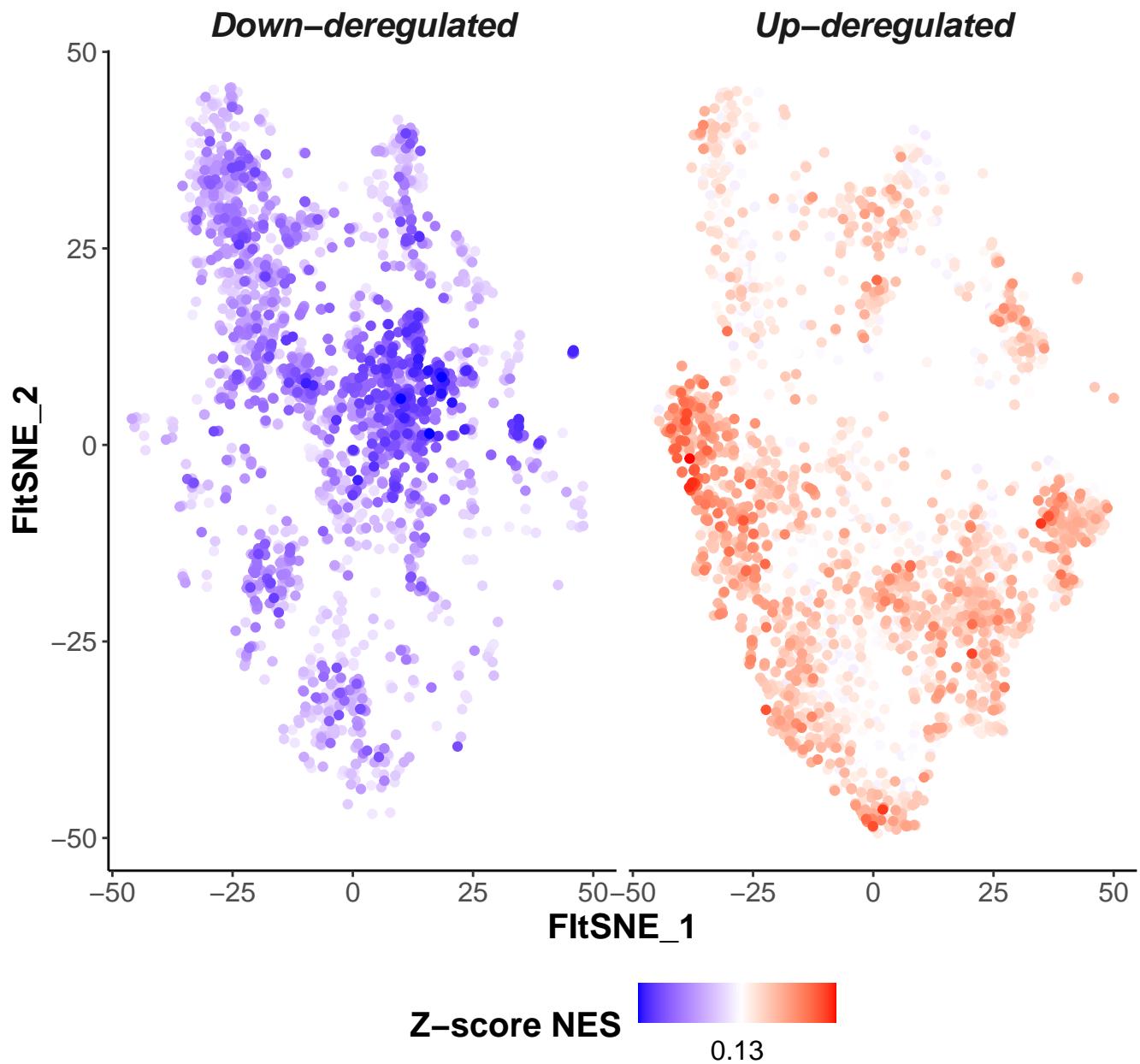


HALLMARK_NOTCH_SIGNALING

Subtype

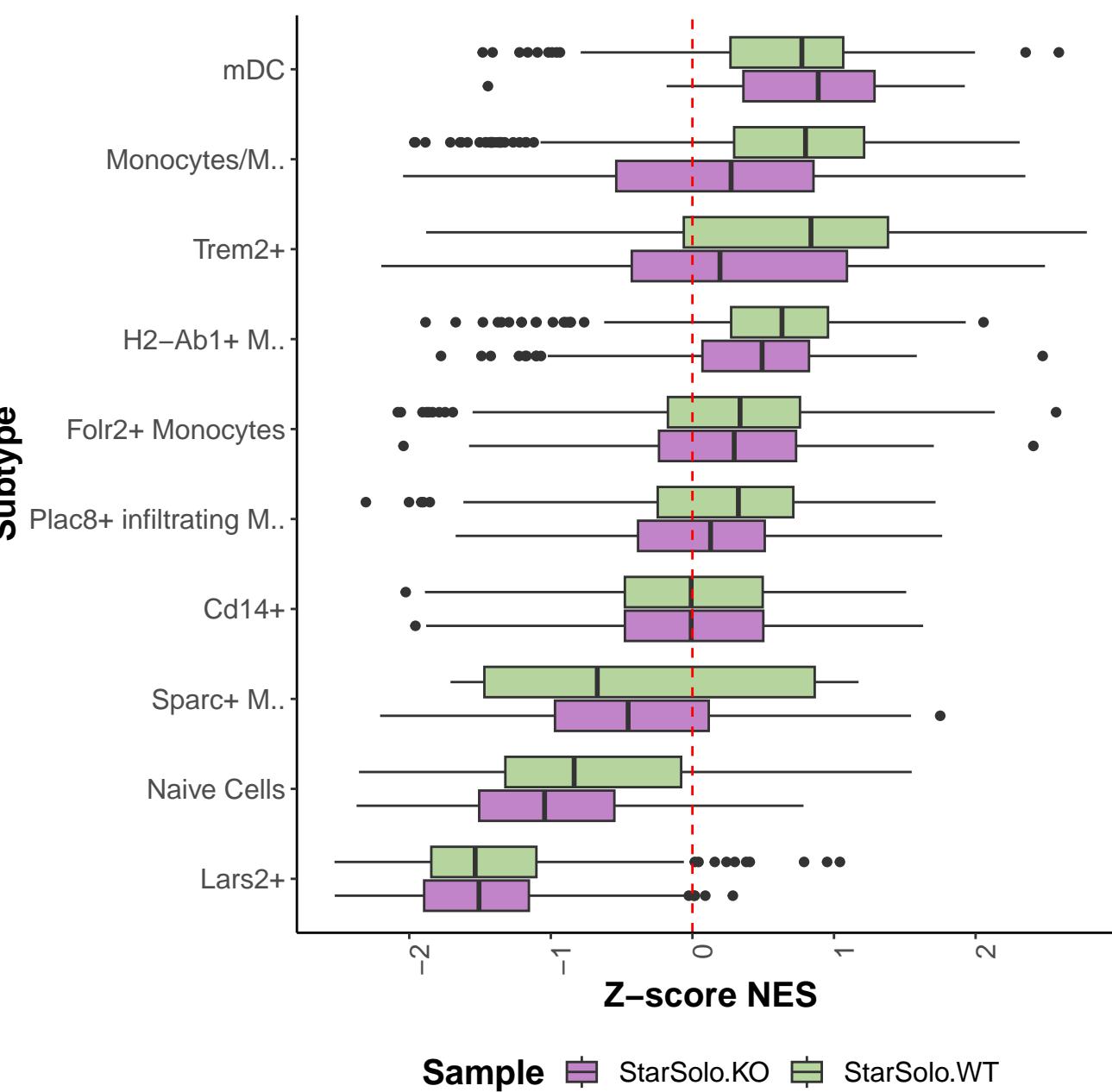


HALLMARK_OXIDATIVE_PHOSPHORYLATION



HALLMARK_OXIDATIVE_PHOSPHORYLATION

Subtype



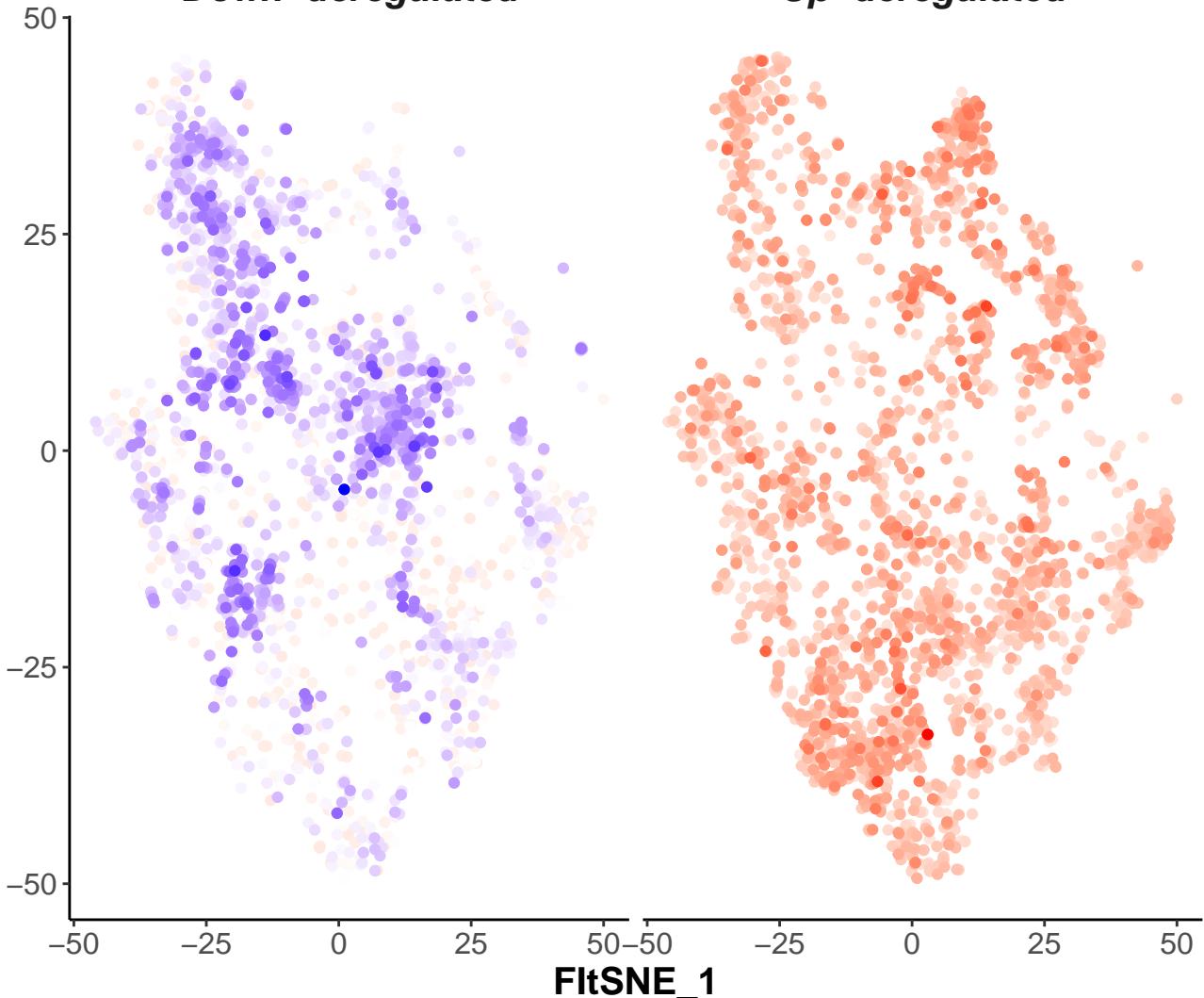
Sample StarSolo.KO StarSolo.WT

HALLMARK_P53_PATHWAY

Down-deregulated

Up-deregulated

FitSNE_2

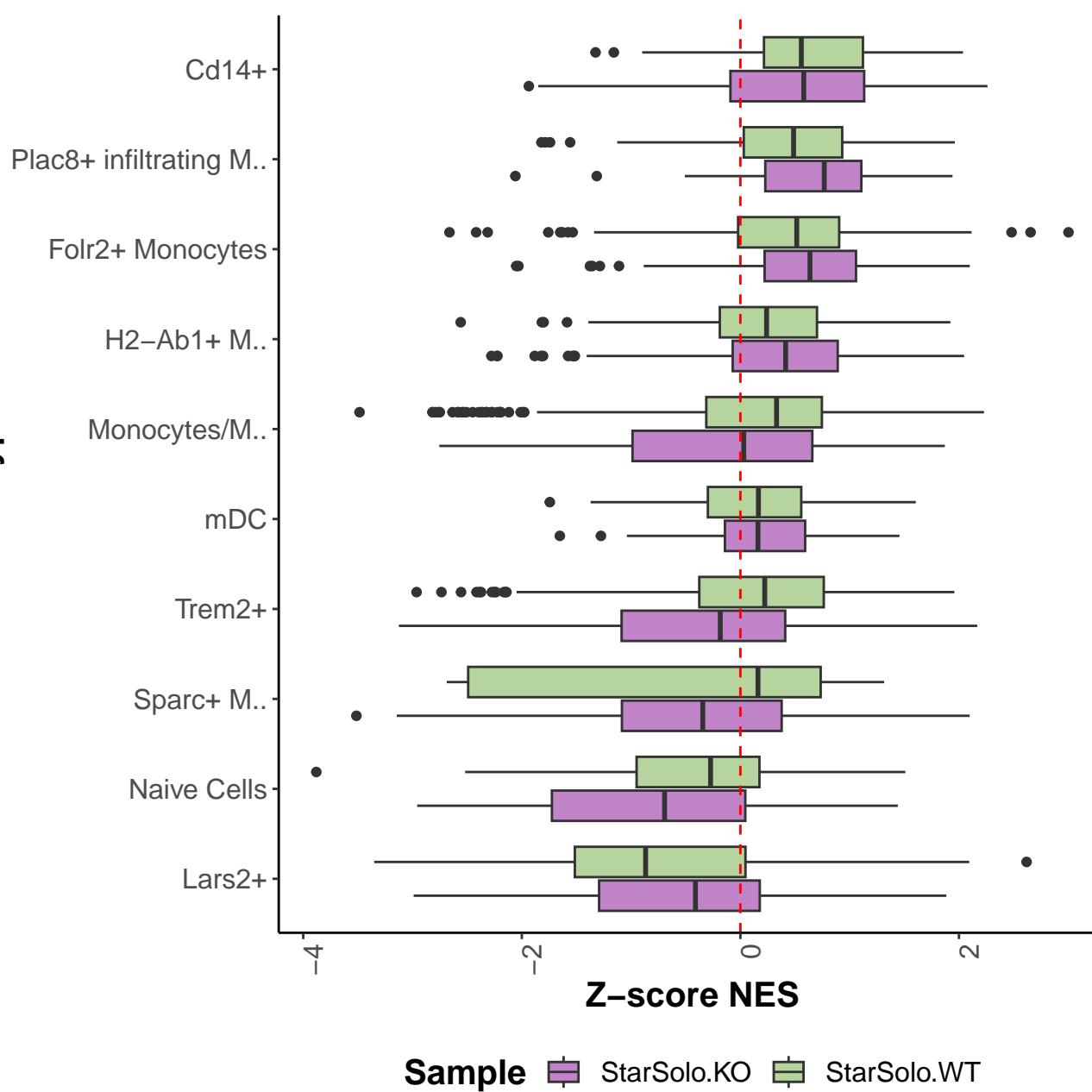


Z-score NES



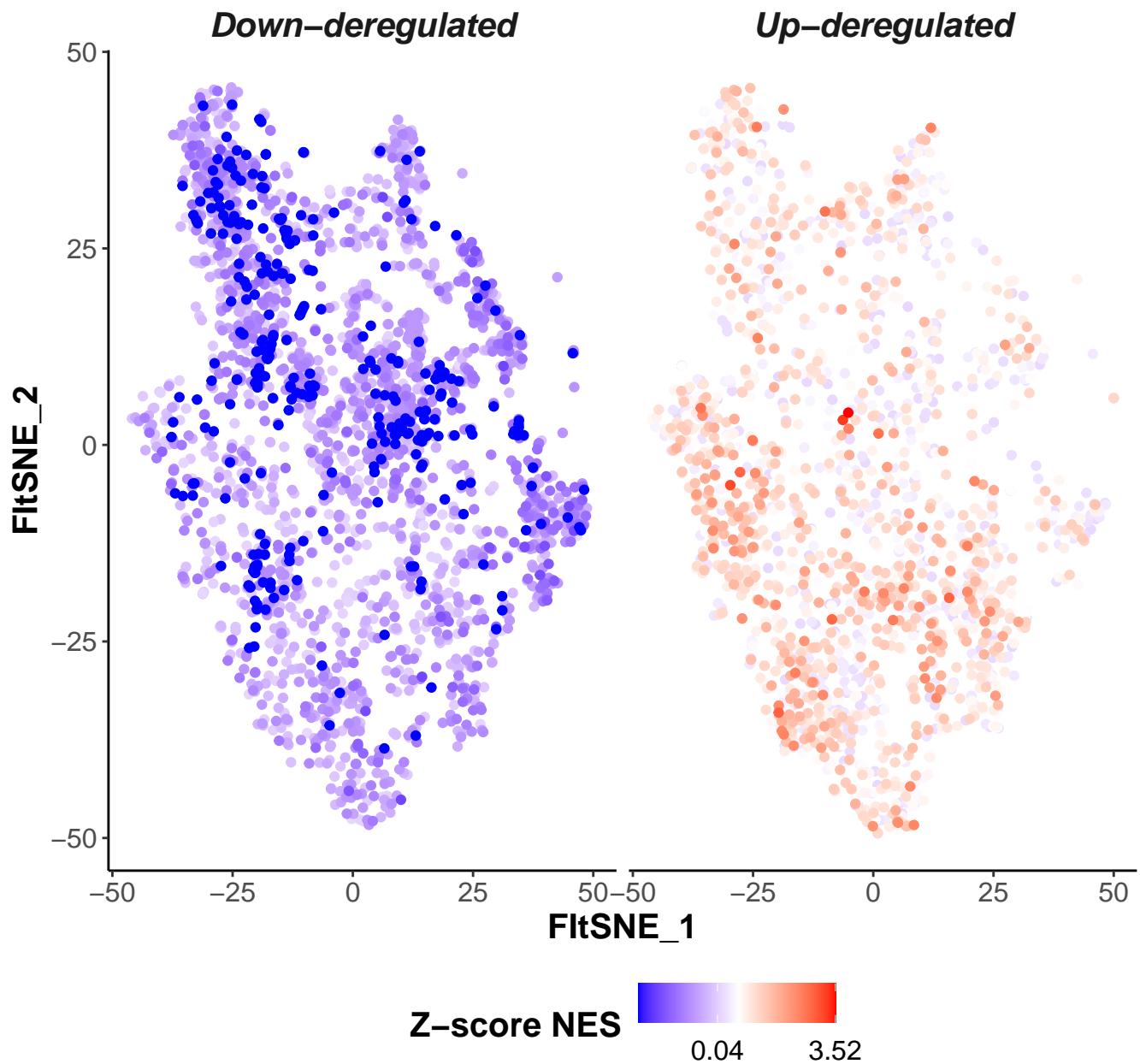
HALLMARK_P53_PATHWAY

Subtype



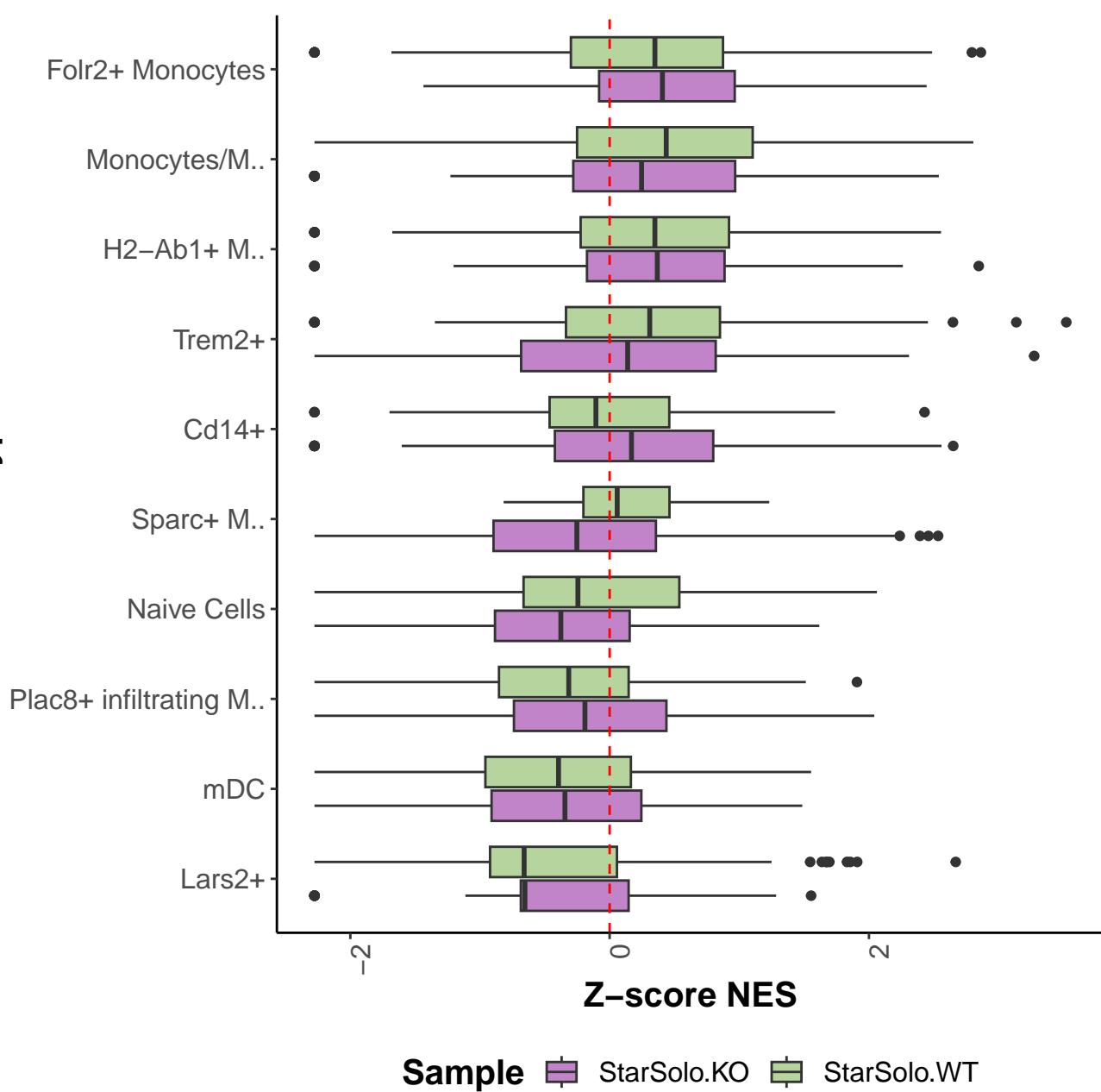
Sample StarSolo.KO StarSolo.WT

HALLMARK_PANCREAS_BETA_CELLS

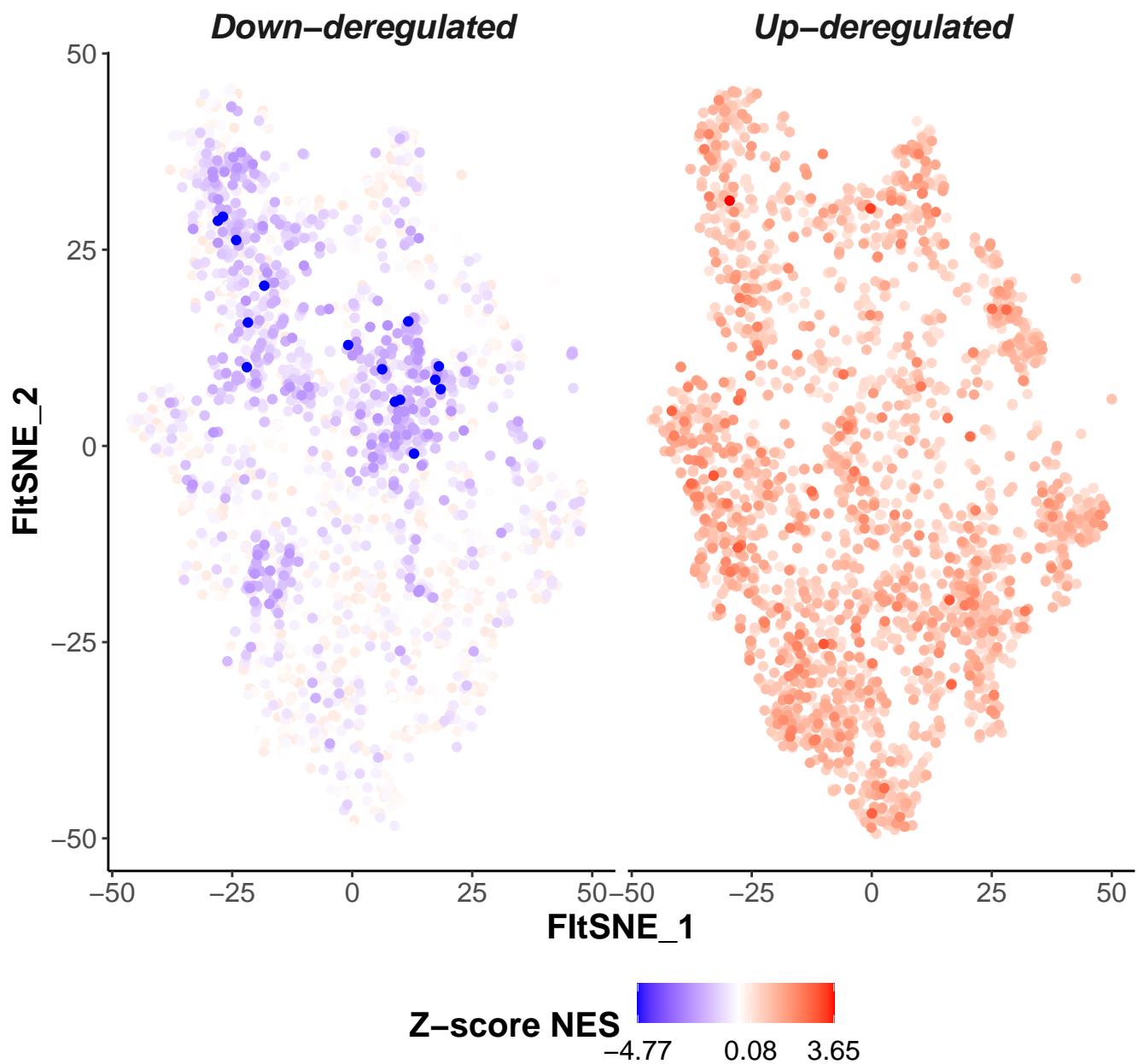


HALLMARK_PANCREAS_BETA_CELLS

Subtype

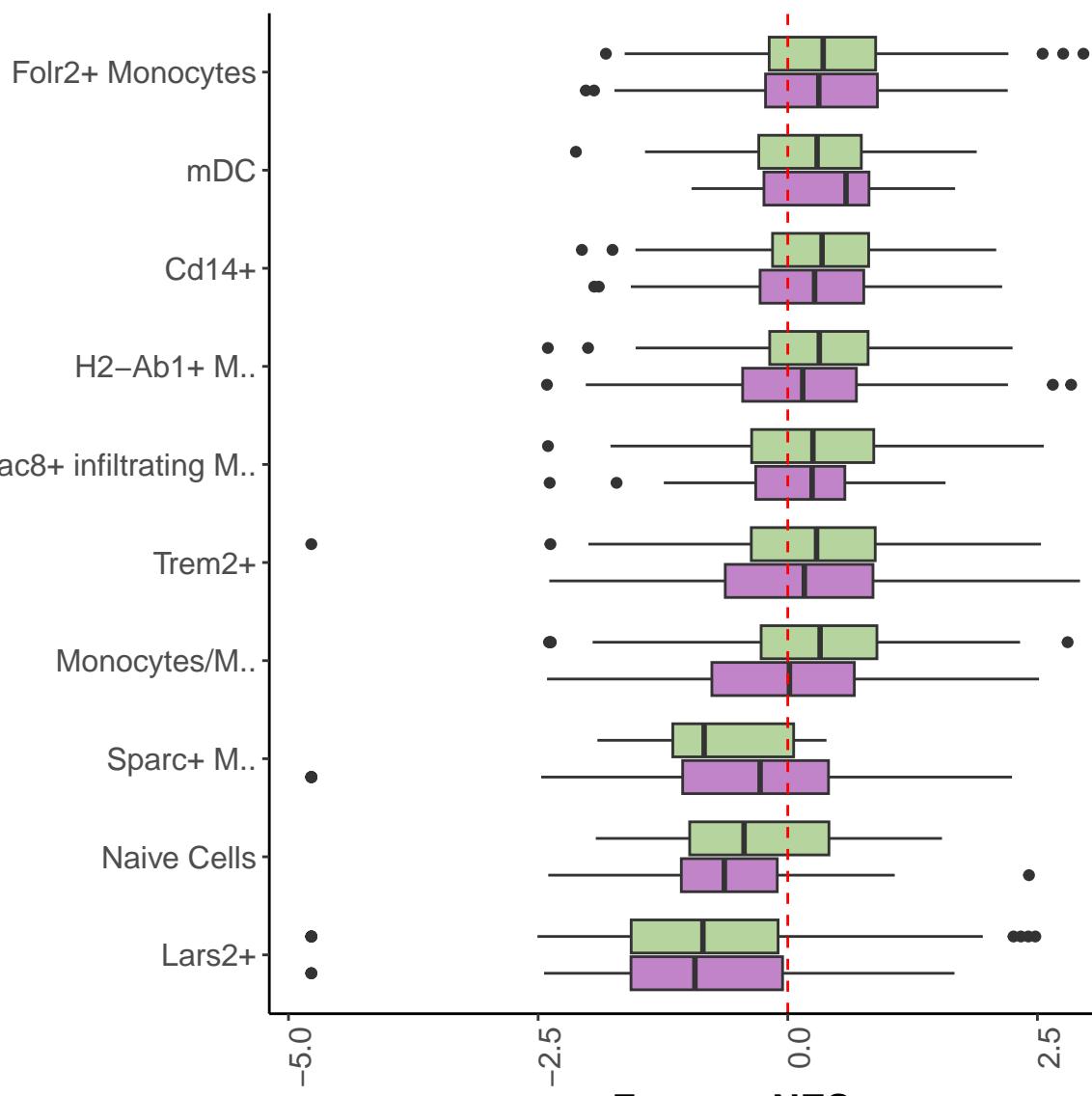


HALLMARK_PEROXISOME



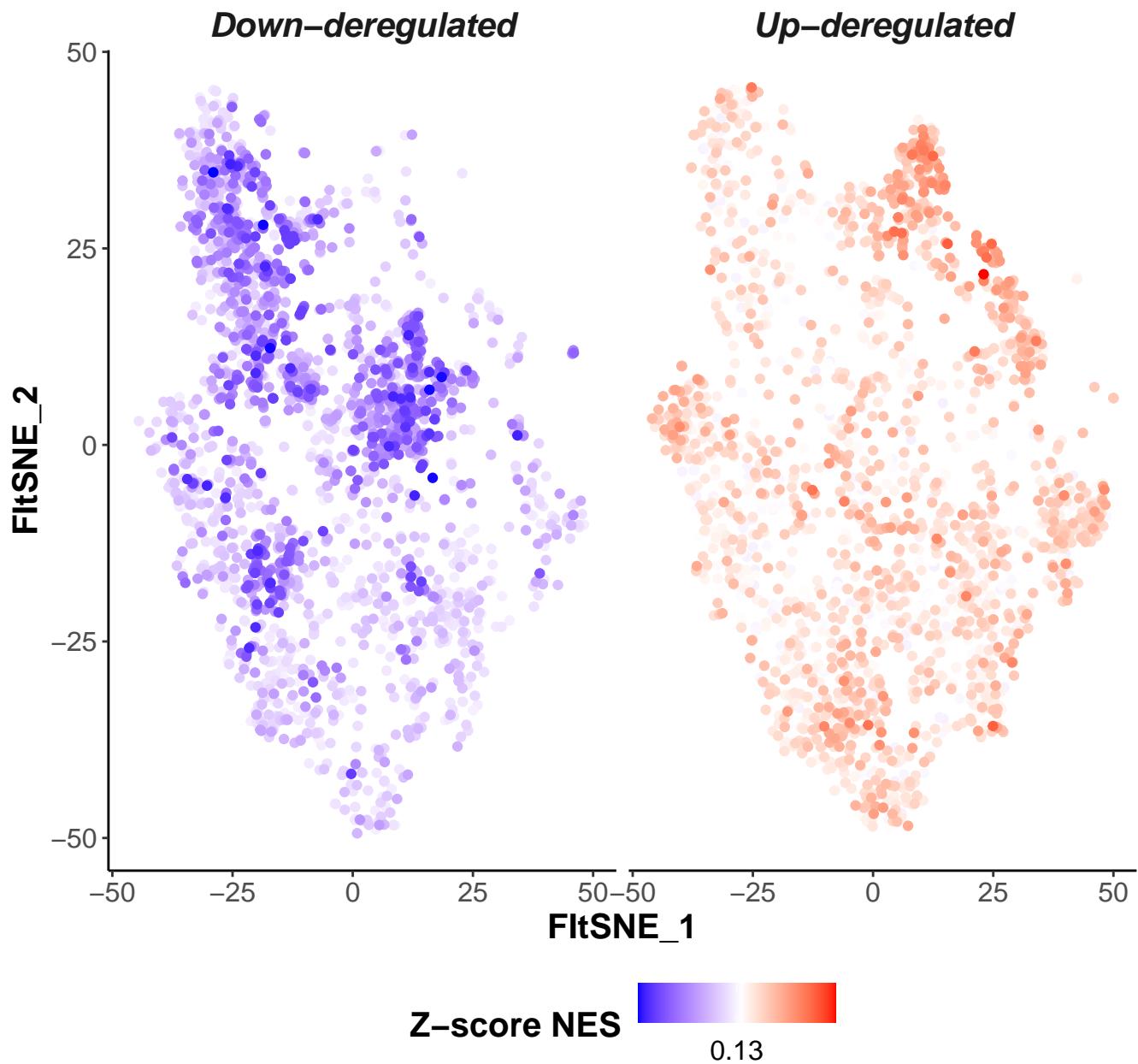
HALLMARK_PEROXISOME

Subtype



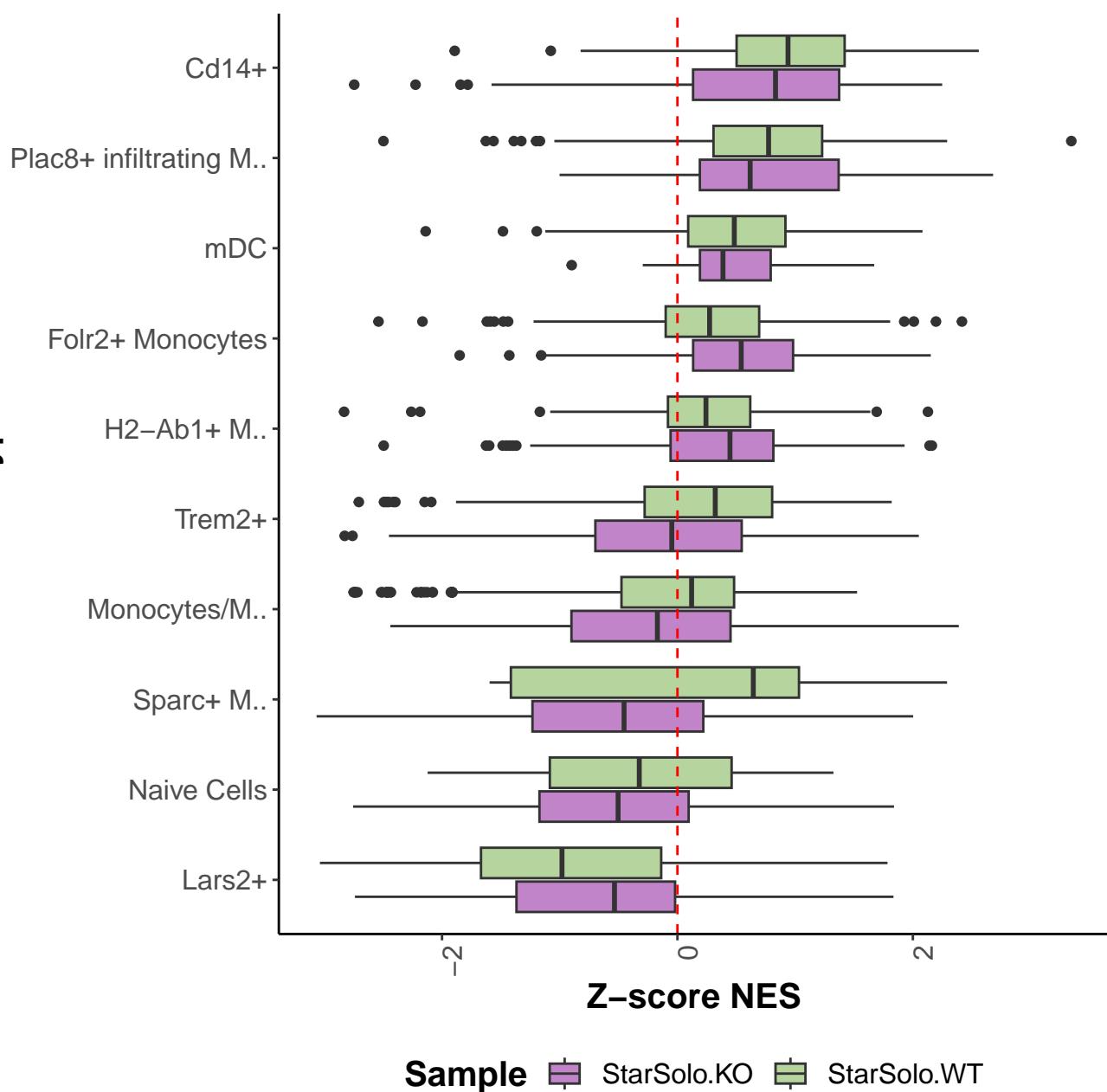
Sample StarSolo.KO StarSolo.WT

HALLMARK_PI3K_AKT_MTOR_SIGNALING

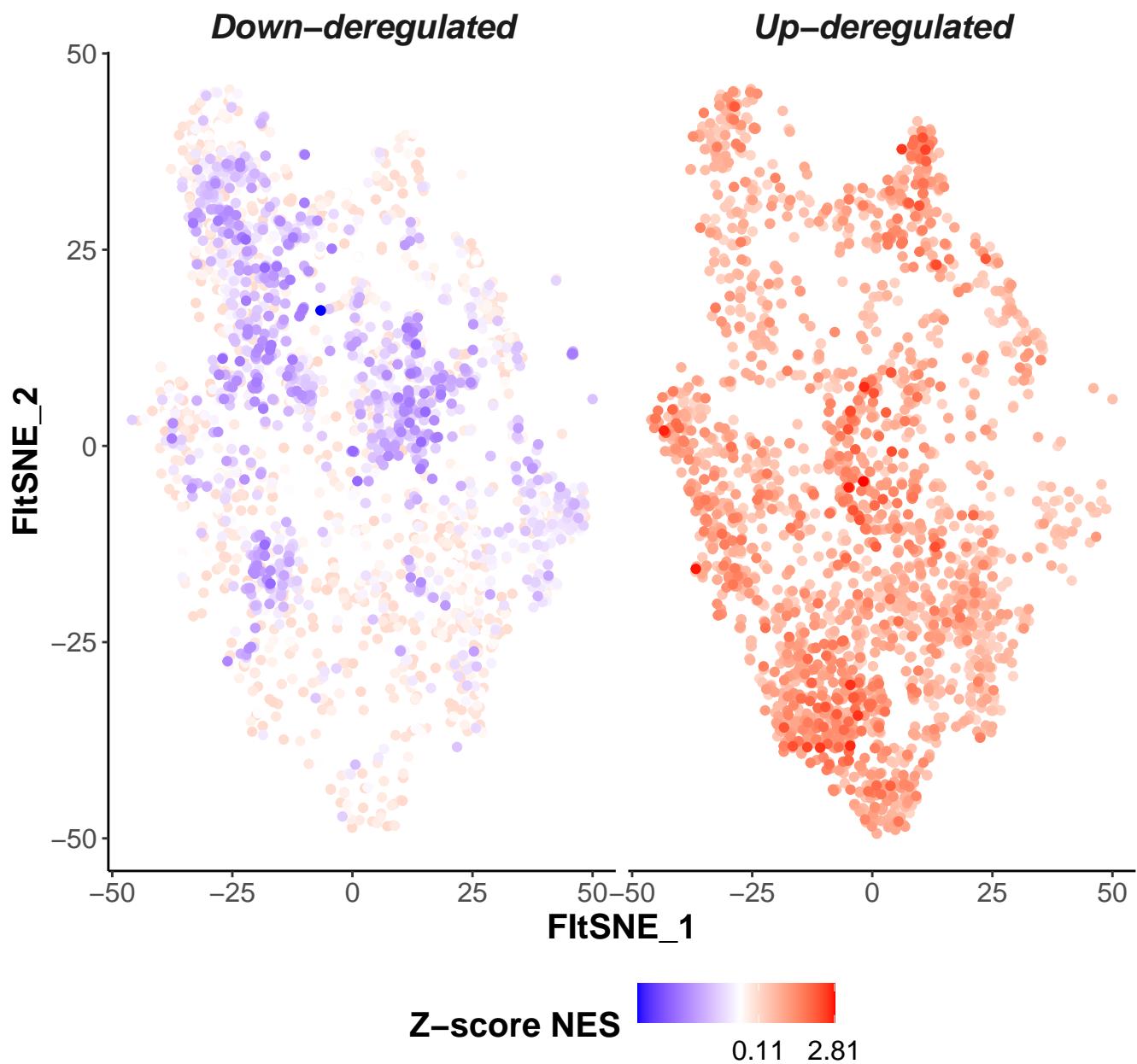


HALLMARK_PI3K_AKT_MTOR_SIGNALING

Subtype



HALLMARK_PROTEIN_SECRETION



HALLMARK_PROTEIN_SECRETION

Subtype

Folr2+ Monocytes

Cd14+

Trem2+

H2-Ab1+ M..

Monocytes/M..

Plac8+ infiltrating M..

Sparc+ M..

Naive Cells

mDC

Lars2+

-4

-2

0

2

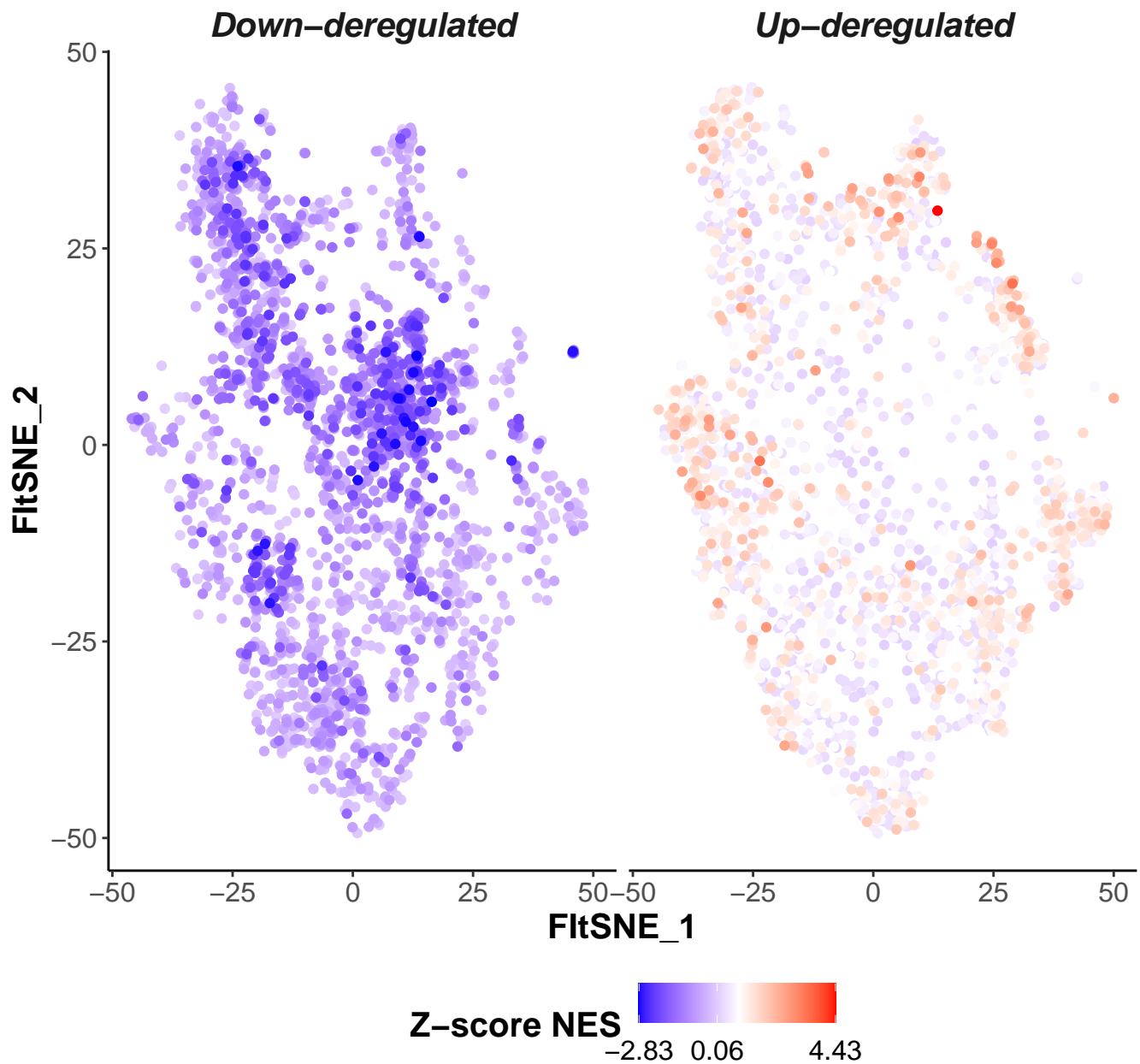
Z-score NES

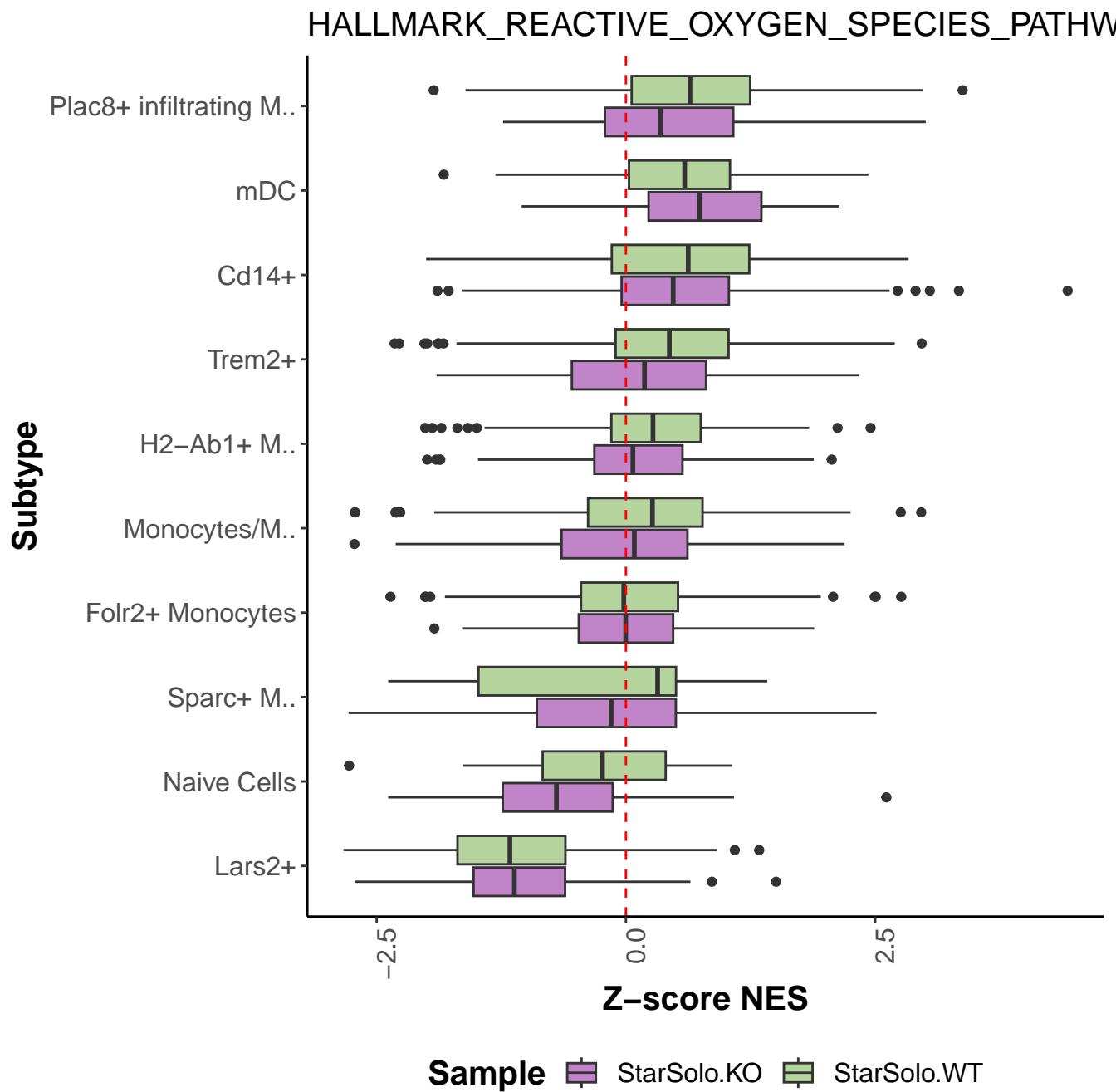
Sample

StarSolo.KO

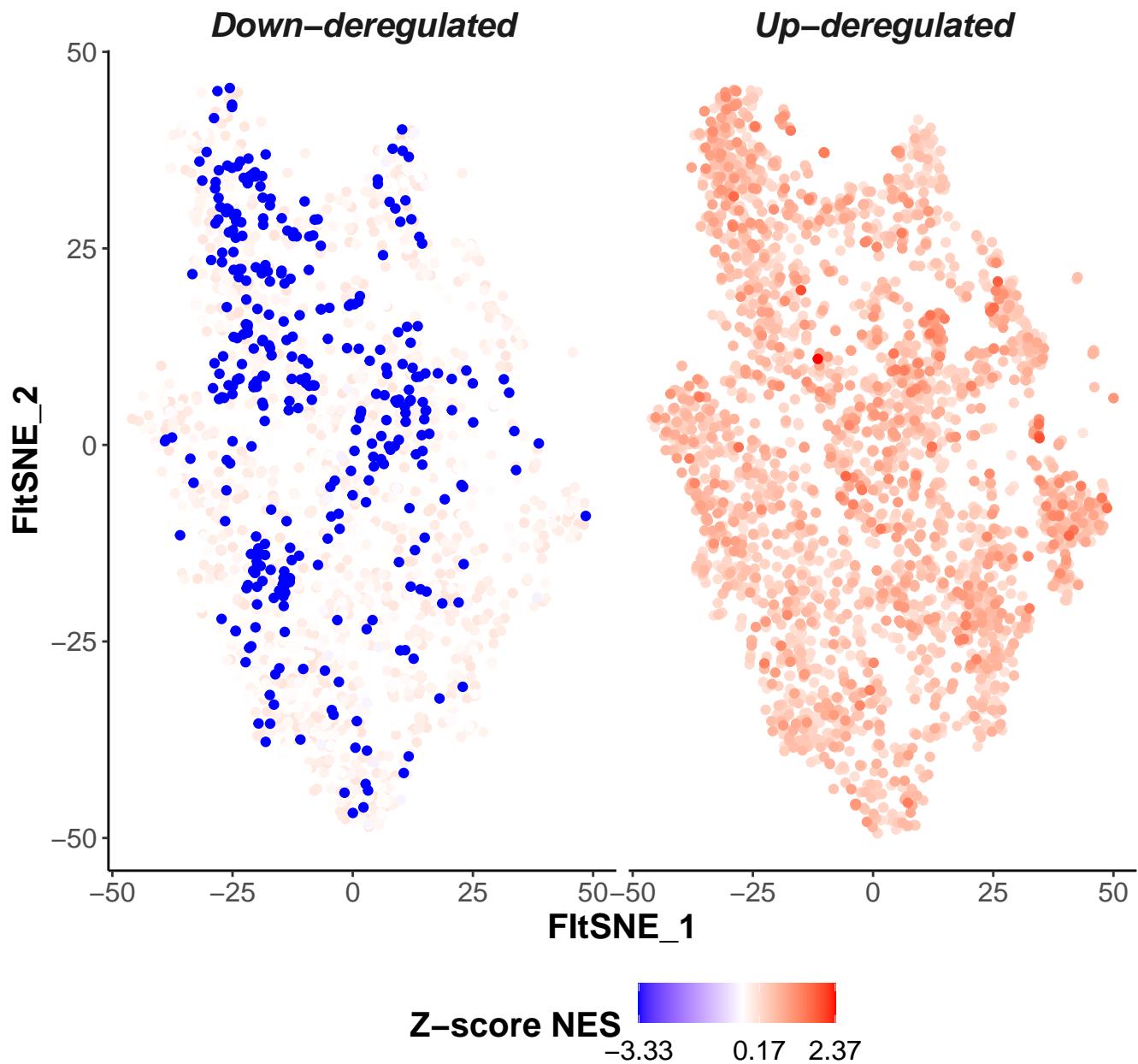
StarSolo.WT

HALLMARK_REACTIVE_OXYGEN_SPECIES_PATHWAY



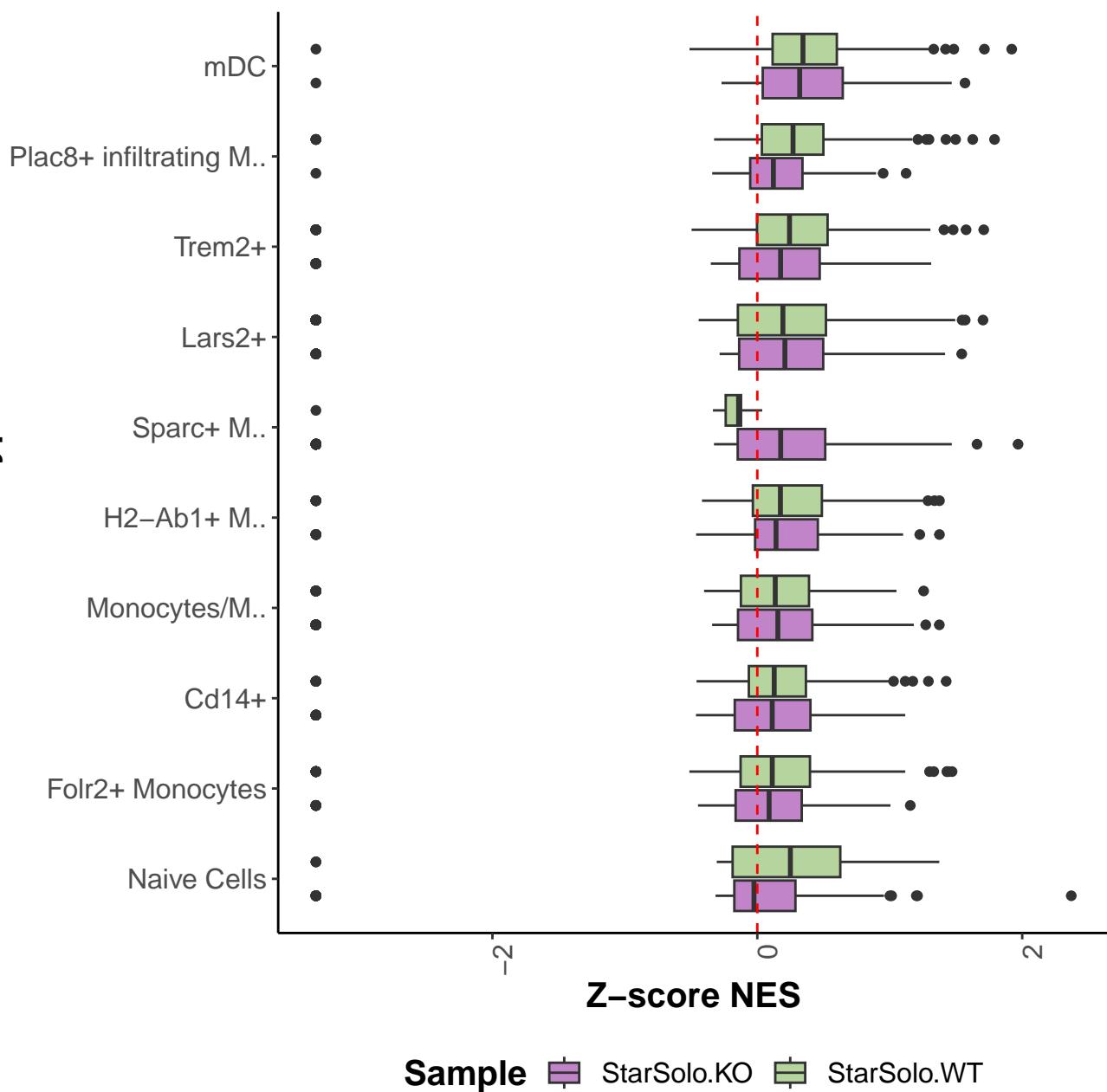


HALLMARK_SPERMATOGENESIS



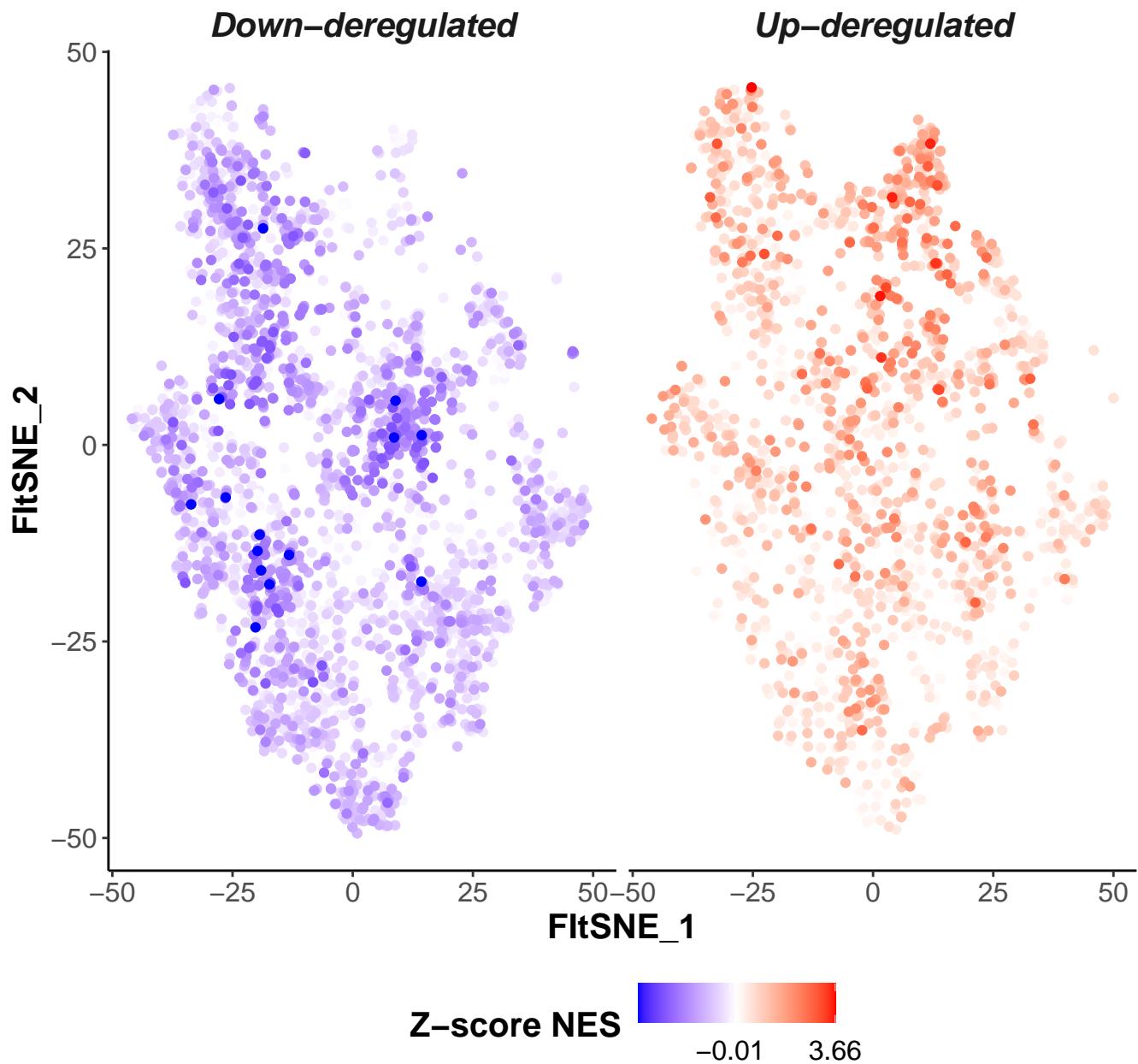
HALLMARK_SPERMATOGENESIS

Subtype



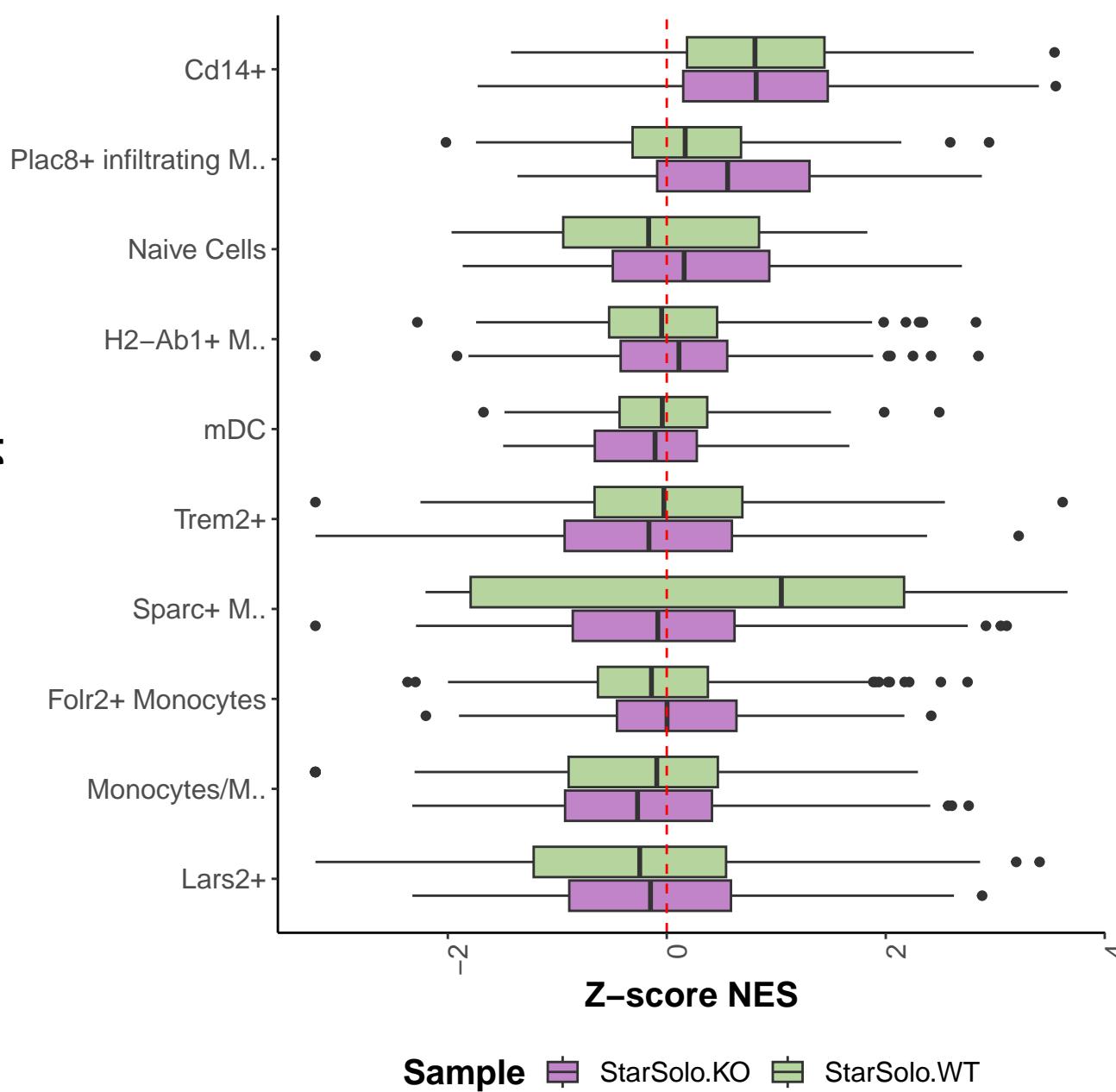
Sample StarSolo.KO StarSolo.WT

HALLMARK_TGF_BETA_SIGNALING

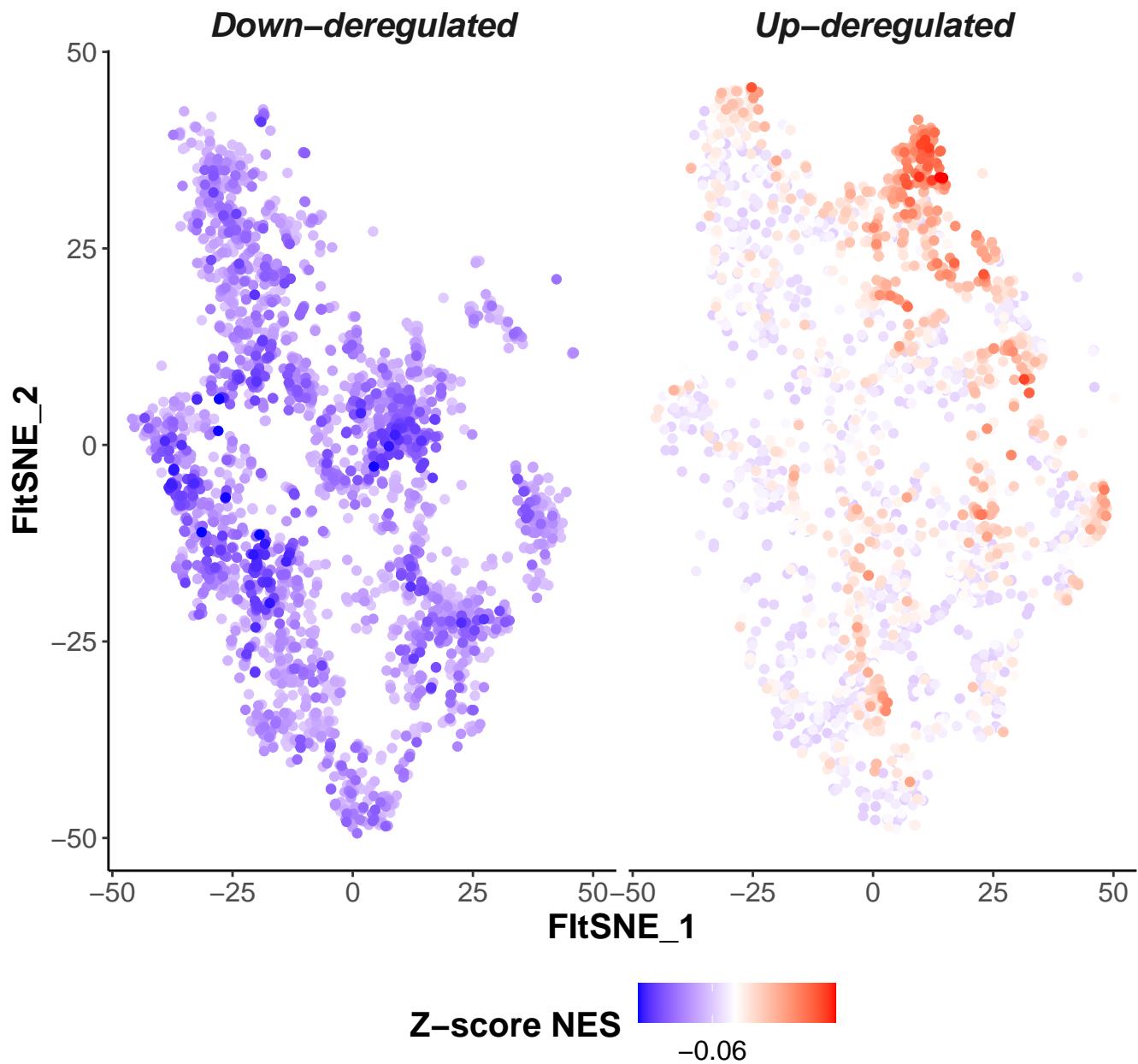


HALLMARK_TGF_BETA_SIGNALING

Subtype

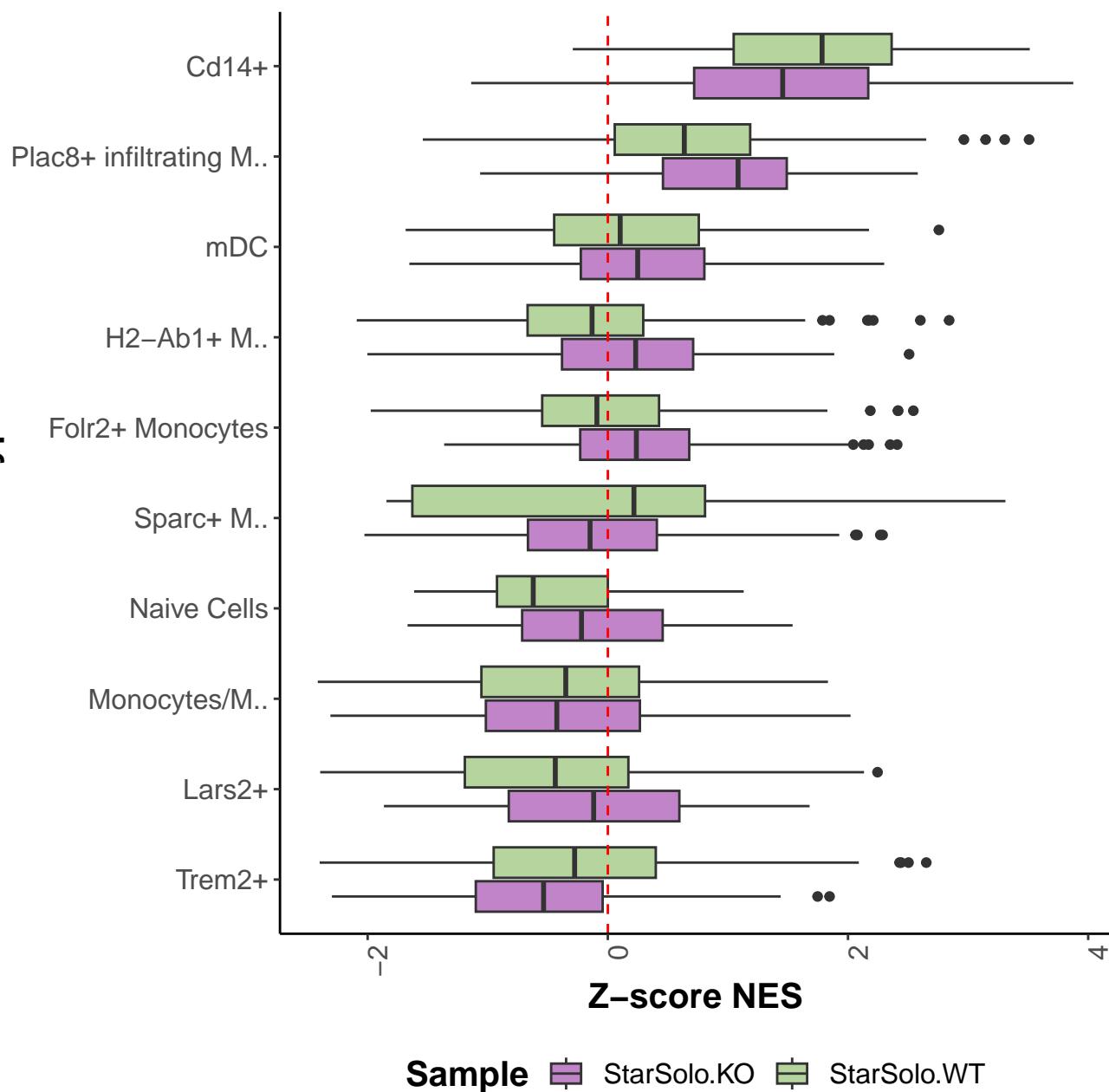


HALLMARK_TNFA_SIGNALING_VIA_NFKB



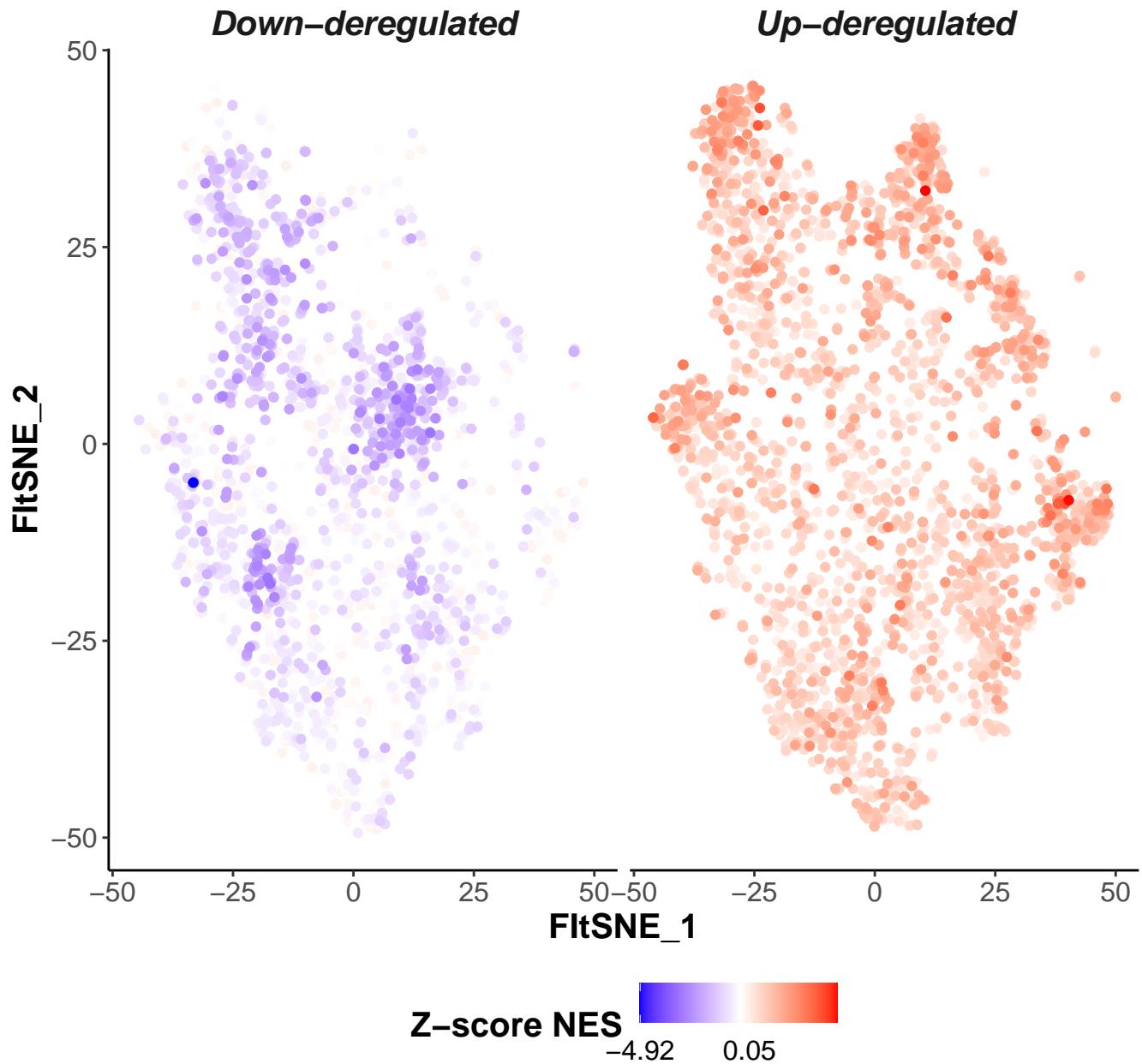
HALLMARK_TNFA_SIGNALING_VIA_NFKB

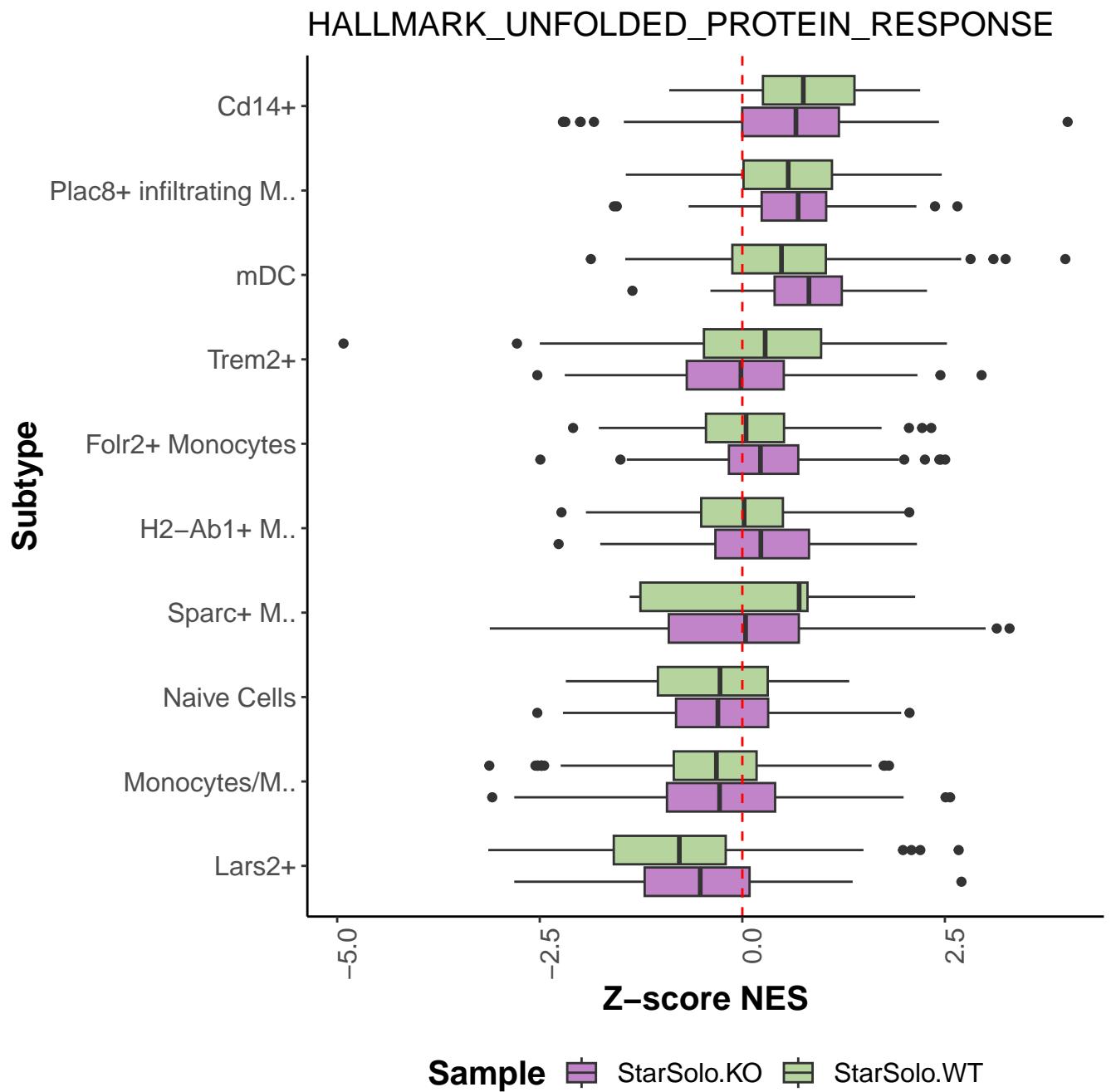
Subtype



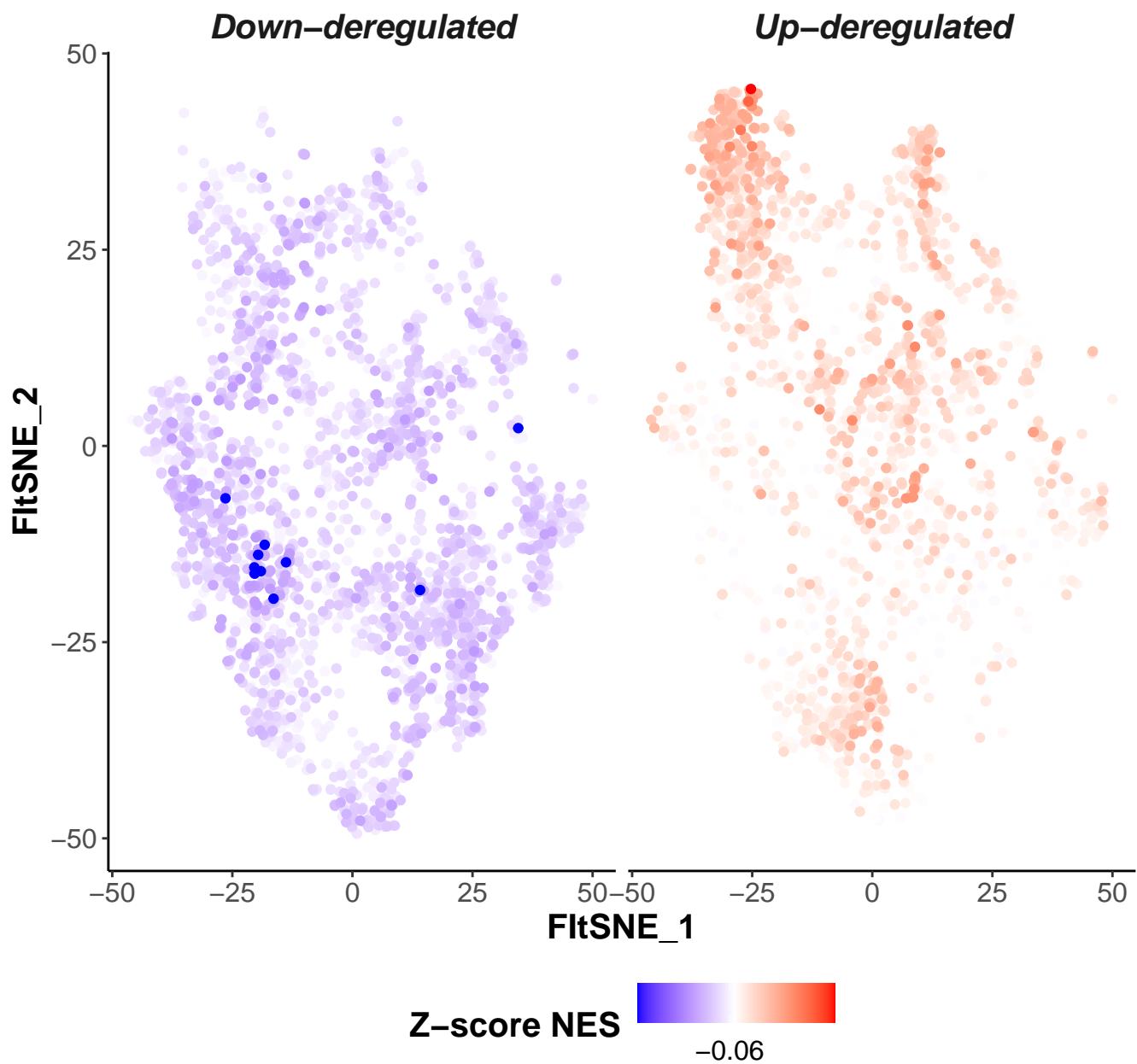
Sample ■ StarSolo.KO ■ StarSolo.WT

HALLMARK_UNFOLDED_PROTEIN_RESPONSE



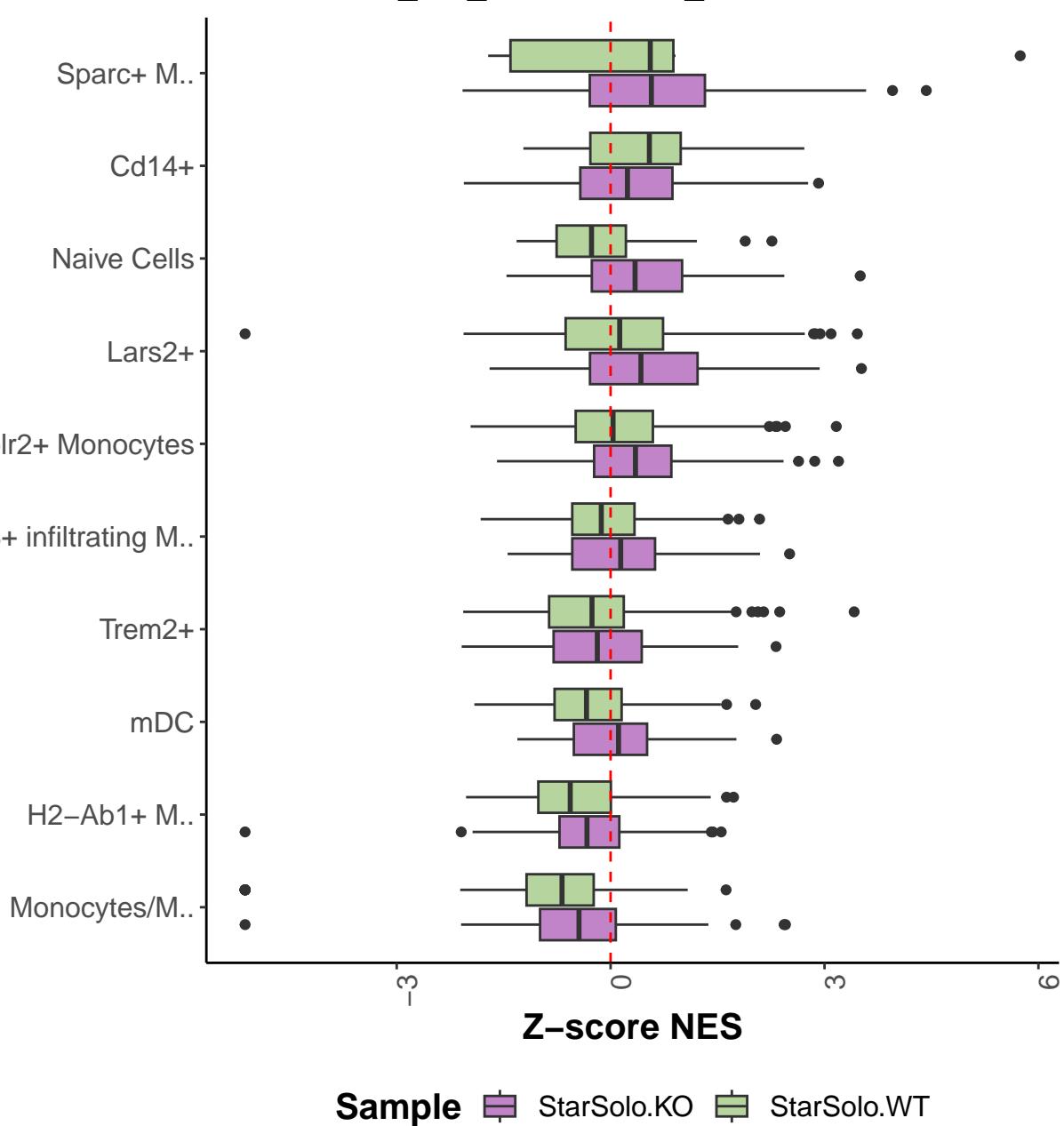


HALLMARK_UV_RESPONSE_DN



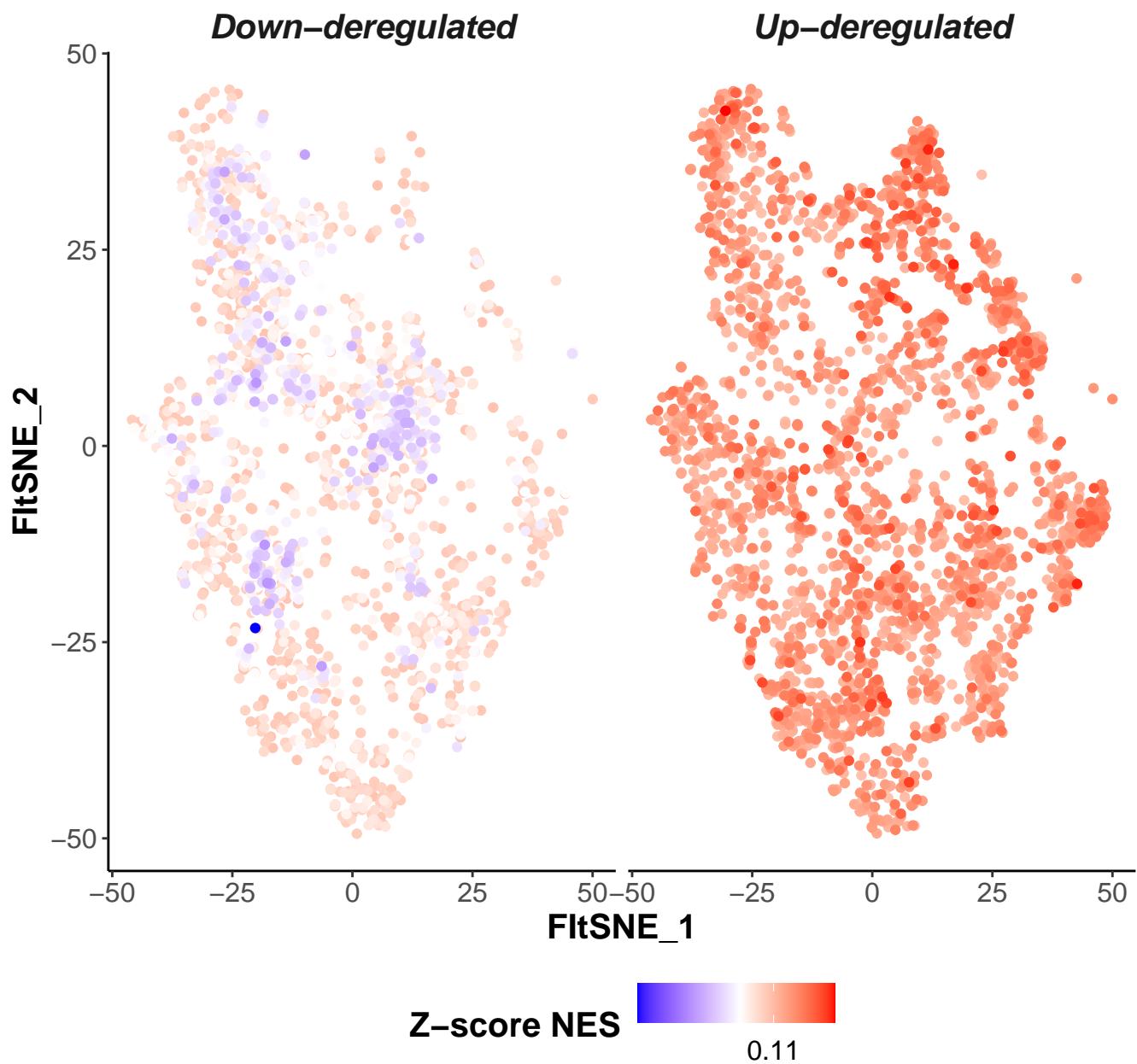
HALLMARK_UV_RESPONSE_DN

Subtype



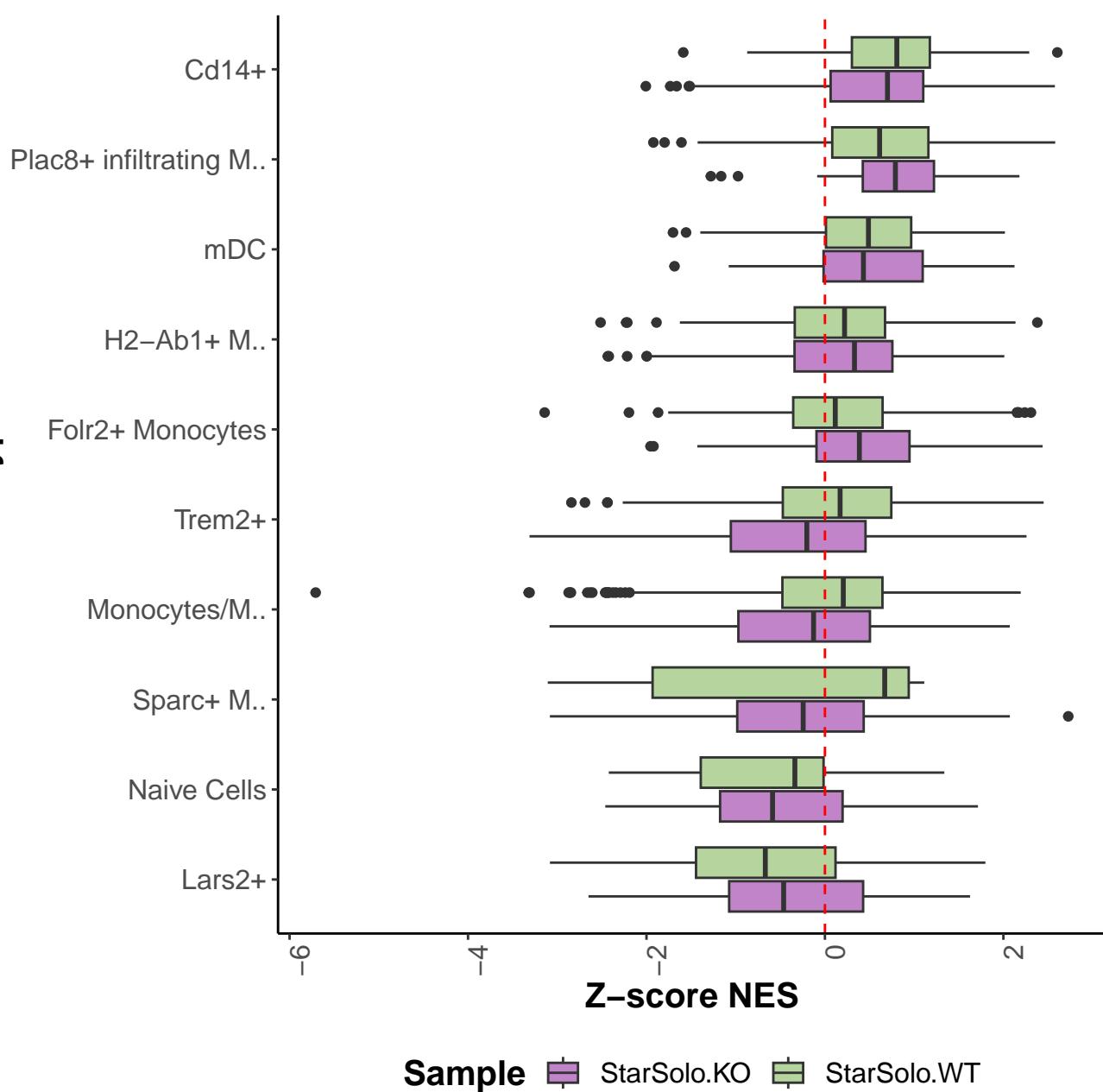
Sample StarSolo.KO StarSolo.WT

HALLMARK_UV_RESPONSE_UP

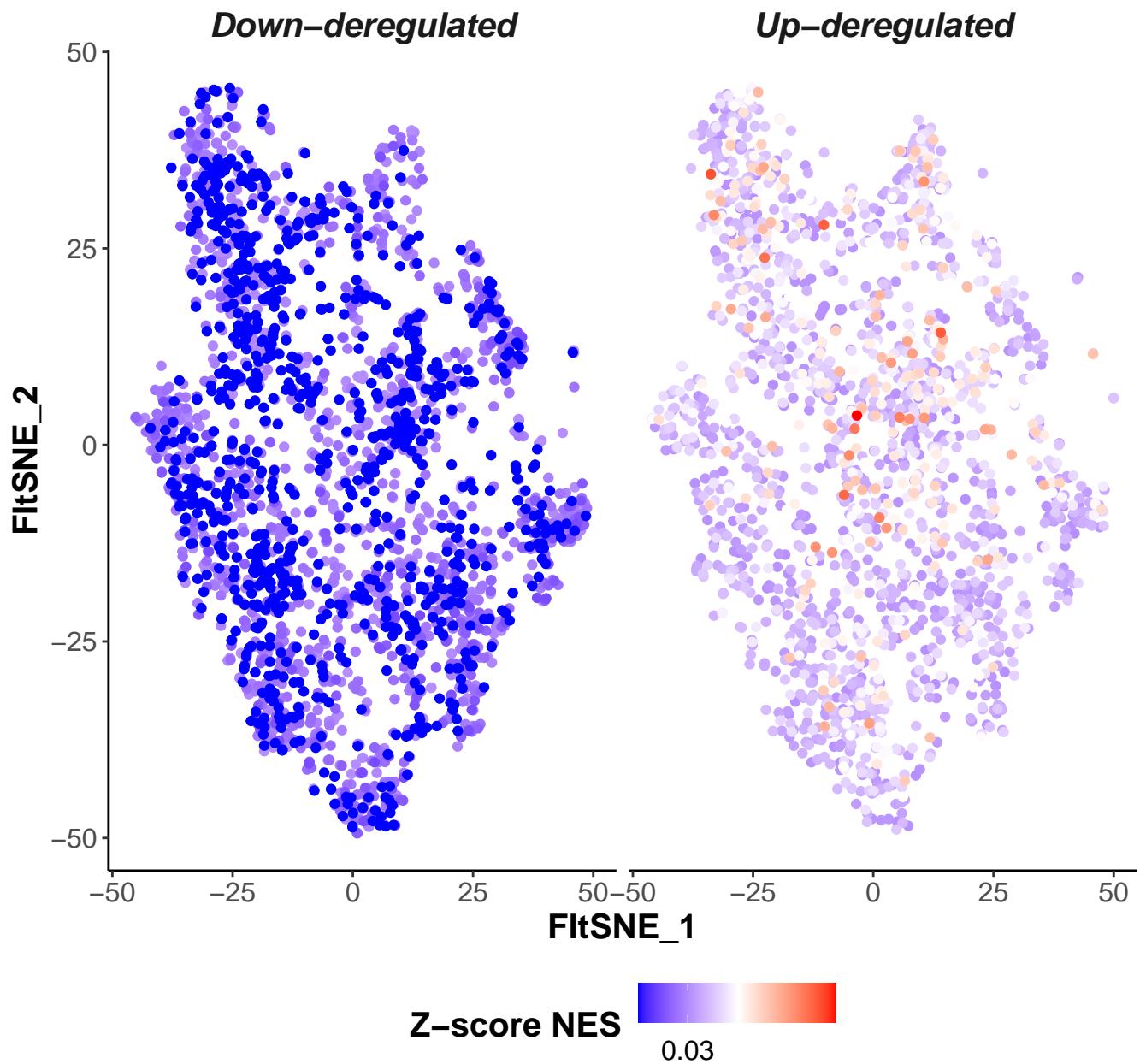


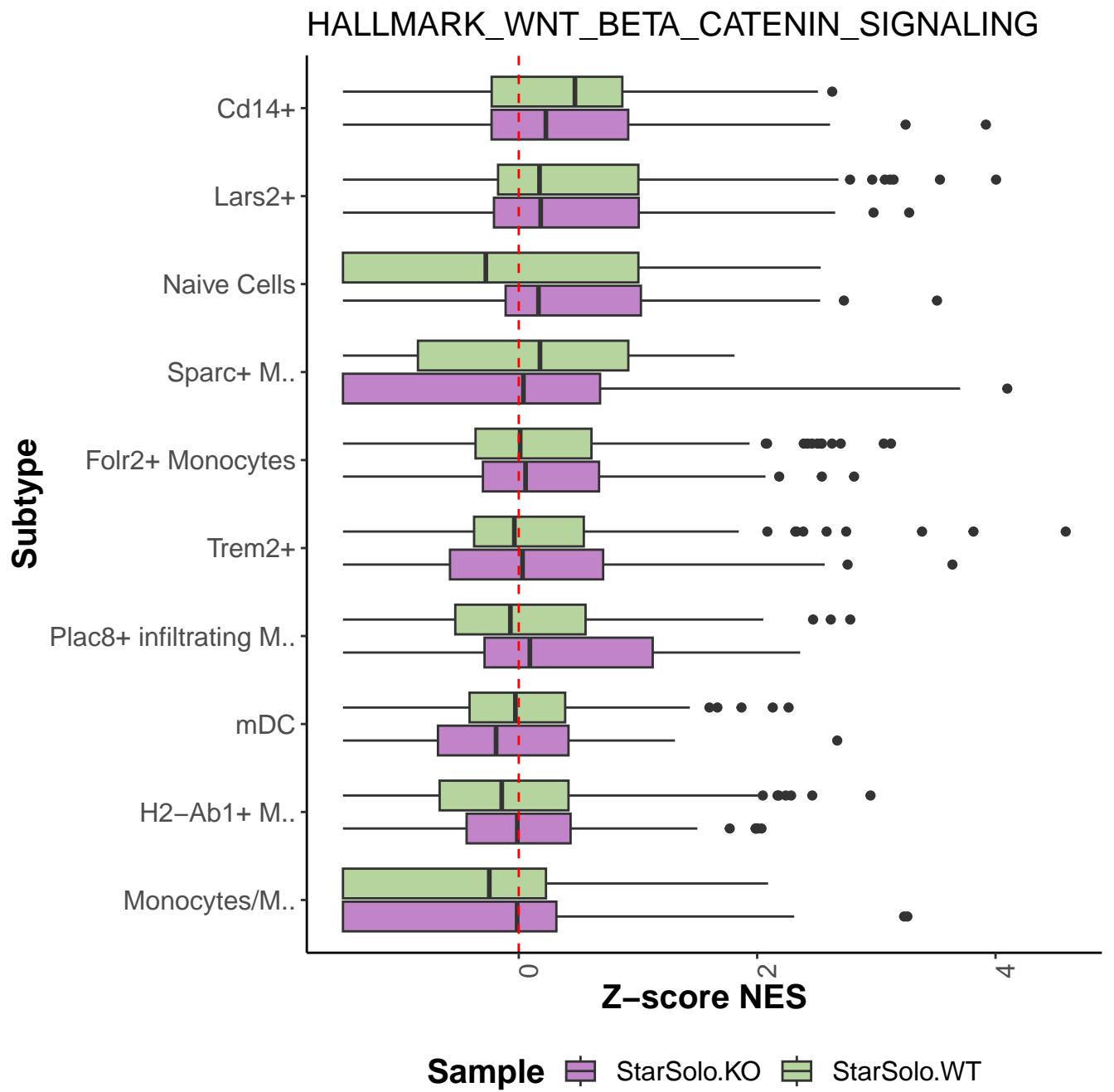
HALLMARK_UV_RESPONSE_UP

Subtype

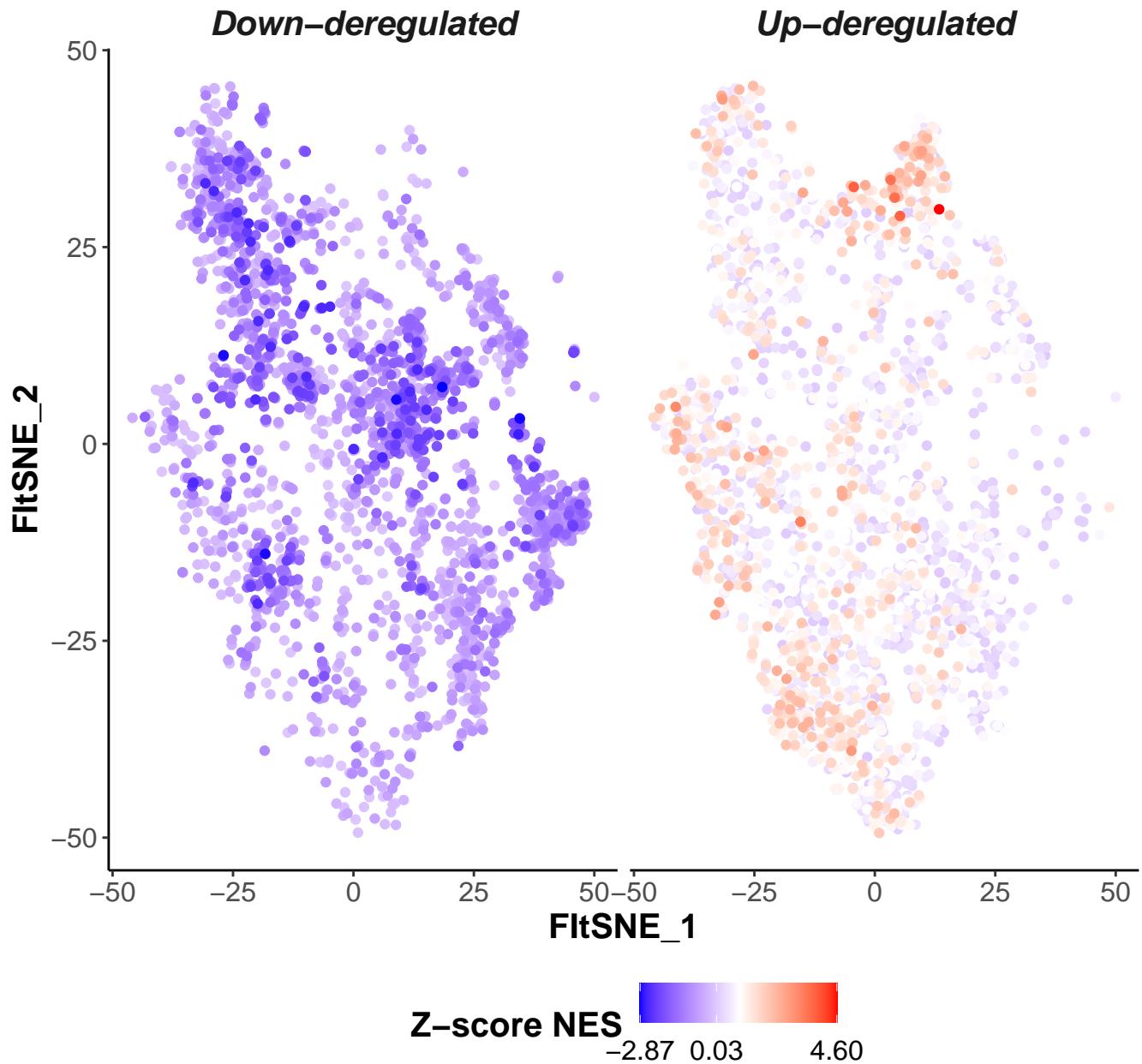


HALLMARK_WNT_BETA_CATENIN_SIGNALING





HALLMARK_XENOBIOTIC_METABOLISM



HALLMARK_XENOBIOTIC_METABOLISM

Subtype

