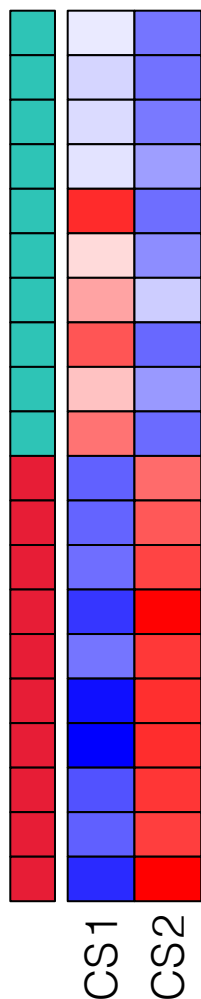


A

Subtype

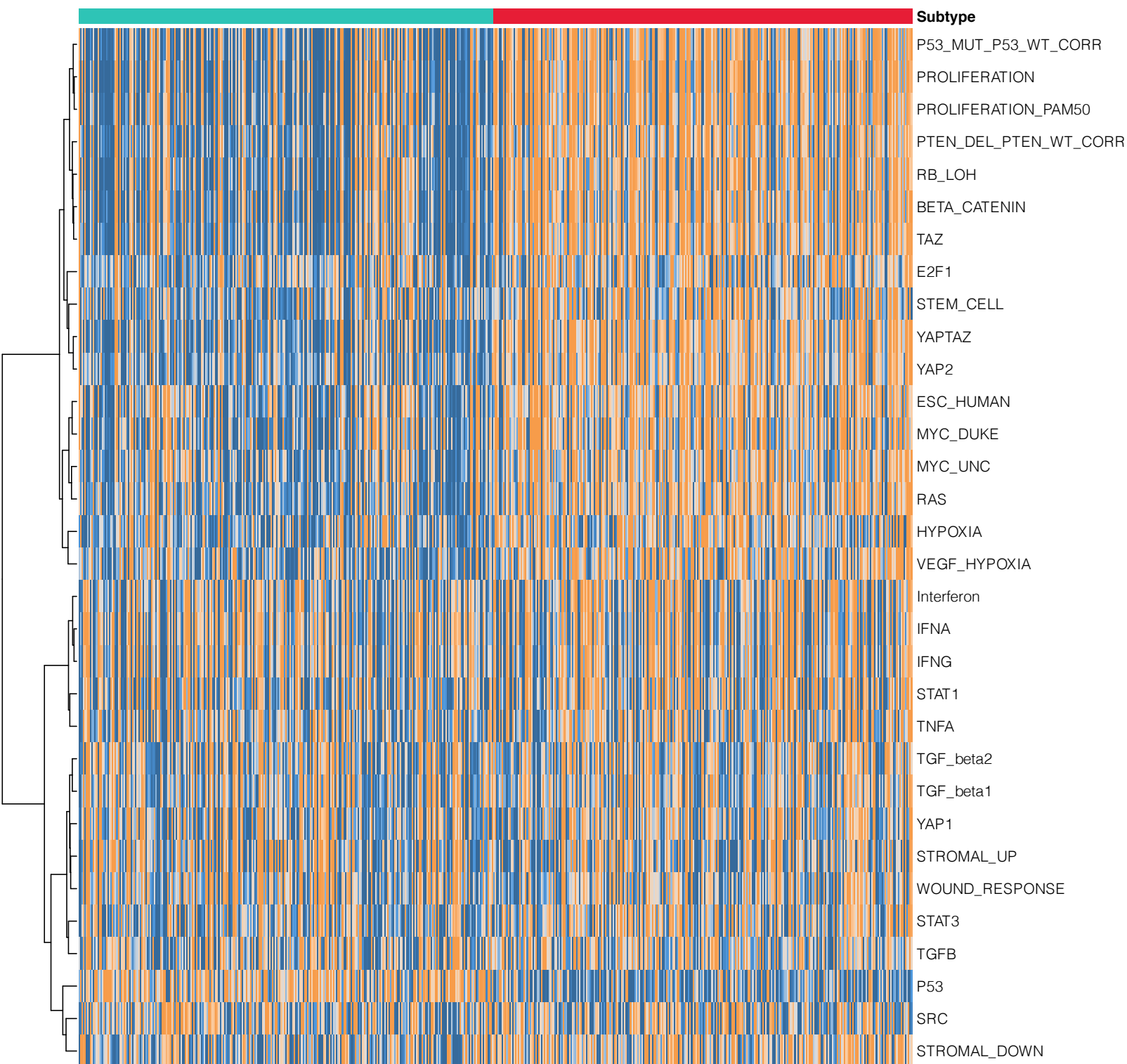
CS1
CS2

matrix_6

1
0.5
0
-0.5
-1

GO_CILIUM_MOVEMENT
GO_AXONEME_ASSEMBLY
GO_AXONEMAL_DYNEIN_COMPLEX_ASSEMBLY
GO_MICROTUBULE_BUNDLE_FORMATION
GO_MEMBRANE_REPOLARIZATION
GO_MOTILE_CILIUM_ASSEMBLY
GO_POSITIVE_REGULATION_OF_LIPASE_ACTIVITY
GO_NEGATIVE_REGULATION_OF_CATECHOLAMINE_SECRETION
GO_ANGIOTENSIN_ACTIVATED_SIGNALING_PATHWAY
GO_POSITIVE_REGULATION_OF_ENDOTHELIAL_CELL_DIFFERENTIATION
GO_CORNIFICATION
GO KERATINIZATION
GO KERATINOCYTE_DIFFERENTIATION
GO_MEIOTIC_CELL_CYCLE_PROCESS
GO_SKIN_DEVELOPMENT
GO_NUCLEAR_CHROMOSOME_SEGREGATION
GO_MITOTIC_SISTER_CHROMATID_SEGREGATION
GO_EPIDERMAL_CELL_DIFFERENTIATION
GO_EPIDERMIS_DEVELOPMENT
GO_MEIOSIS_I_CELL_CYCLE_PROCESS

B

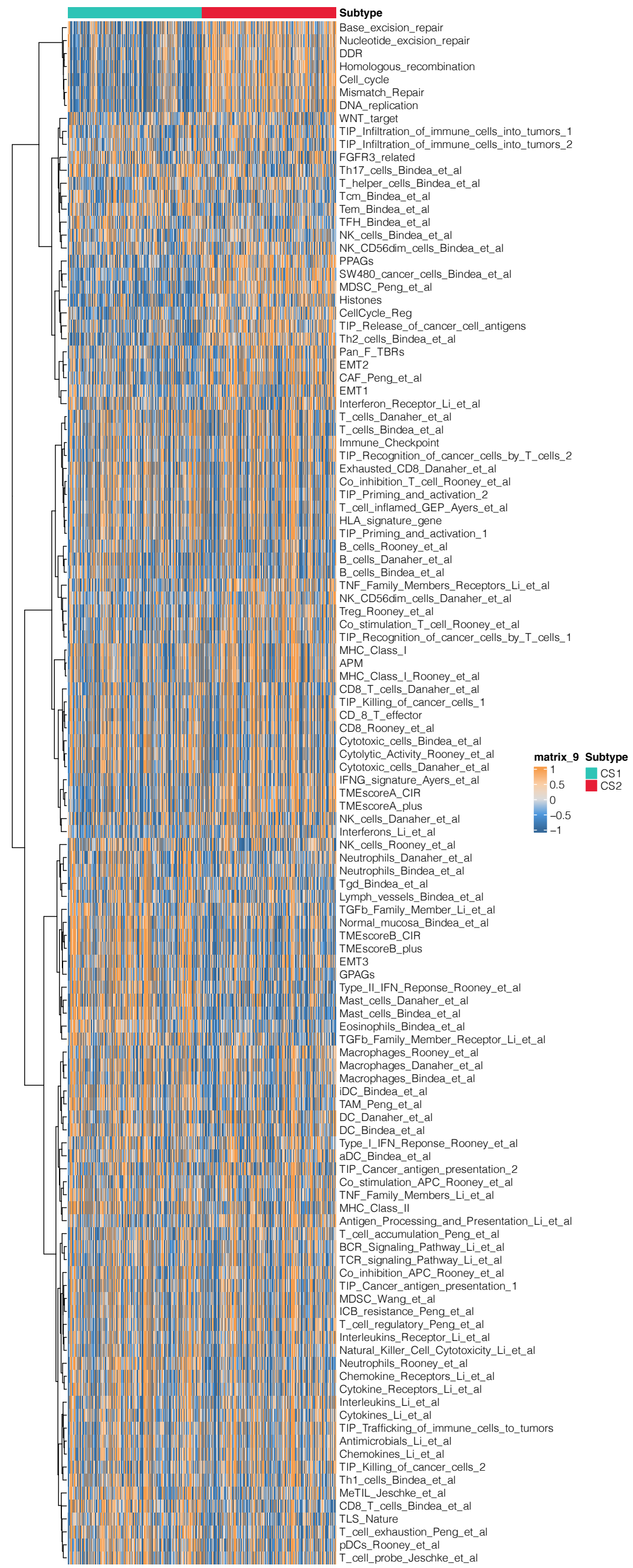


Subtype
P53_MUT_P53_WT_CORR
PROLIFERATION
PROLIFERATION_PAM50
PTEN_DEL_PTEN_WT_CORR
RB_LOH
BETA_CATENIN
TAZ
E2F1
STEM_CELL
YAPTAZ
YAP2
ESC_HUMAN
MYC_DUKE
MYC_UNC
RAS
HYPOXIA
VEGF_HYPOXIA
Interferon
IFNA
IFNG
STAT1
TNFA
TGF_beta2
TGF_beta1
YAP1
STROMAL_UP
WOUND_RESPONSE
STAT3
TGFB
P53
SRC
STROMAL_DOWN

matrix_10 Subtype
1
0.5
0
-0.5
-1

CS1
CS2

C



Subtype
Base_excision_repair
Nucleotide_excision_repair
DDR
Homologous_recombination
Cell_cycle
Mismatch_Repair
DNA_replication
WNT_target
TIP_Infiltration_of_immune_cells_into_tumors_1
TIP_Infiltration_of_immune_cells_into_tumors_2
FGFR3_related
Th17_cells_Bindea_et_al
T_helper_cells_Bindea_et_al
Tcm_Bindea_et_al
Tem_Bindea_et_al
TFH_Bindea_et_al
NK_cells_Bindea_et_al
NK_CD56dim_cells_Bindea_et_al
PPAGs
SW480_cancer_cells_Bindea_et_al
MDSC_Peng_et_al
Histones
CellCycle_Reg
TIP_Release_of_cancer_cell_antigens
Th2_cells_Bindea_et_al
Pan_F_TBRS
EMT2
CAF_Peng_et_al
EMT1
Interferon_Receptor_Li_et_al
T_cells_Danaher_et_al
T_cells_Bindea_et_al
Immune_Checkpoint
TIP_Recognition_of_cancer_cells_by_T_cells_2
Exhausted_CD8_Danaher_et_al
Co_inhibition_T_cell_Rooney_et_al
TIP_Priming_and_activation_2
T_cell_inflamed_GEP_Ayers_et_al
HLA_signature_gene
TIP_Priming_and_activation_1
B_cells_Rooney_et_al
B_cells_Danaher_et_al
B_cells_Bindea_et_al
TNF_Family_Members_Receptors_Li_et_al
NK_CD56dim_cells_Danaher_et_al
Treg_Rooney_et_al
Co_stimulation_T_cell_Rooney_et_al
TIP_Recognition_of_cancer_cells_by_T_cells_1
MHC_Class_I
APM
MHC_Class_I_Rooney_et_al
CD8_T_cells_Danaher_et_al
TIP_Killing_of_cancer_cells_1
CD_8_T_effector
CD8_Rooney_et_al
Cytotoxic_cells_Bindea_et_al
Cytolytic_Activity_Rooney_et_al
Cytotoxic_cells_Danaher_et_al
IFNG_signature_Ayers_et_al
TMEScoreA_CIR
TMEScoreA_plus
NK_cells_Danaher_et_al
Interferons_Li_et_al
NK_cells_Rooney_et_al
Neutrophils_Danaher_et_al
Neutrophils_Bindea_et_al
Tgd_Bindea_et_al
Lymph_vessels_Bindea_et_al
TGFb_Family_Member_Li_et_al
Normal_mucosa_Bindea_et_al
TMEScoreB_CIR
TMEScoreB_plus
EMT3
GPAGs
Type_IL1FN_Reponse_Rooney_et_al
Mast_cells_Danaher_et_al
Mast_cells_Bindea_et_al
Eosinophils_Bindea_et_al
TGFb_Family_Member_Receptor_Li_et_al
Macrophages_Rooney_et_al
Macrophages_Danaher_et_al
Macrophages_Bindea_et_al
iDC_Bindea_et_al
TAM_Peng_et_al
DC_Danaher_et_al
DC_Bindea_et_al
Type_I_IFN_Reponse_Rooney_et_al
aDC_Bindea_et_al
TIP_Cancer_antigen_presentation_2
Co_stimulation_APC_Rooney_et_al
TNF_Family_Members_Li_et_al
MHC_Class_II
Antigen_Processing_and_Presentation_Li_et_al
T_cell_accumulation_Peng_et_al
BCR_Signaling_Pathway_Li_et_al
TCR_signaling_Pathway_Li_et_al
Co_inhibition_APC_Rooney_et_al
TIP_Cancer_antigen_presentation_1
MDSC_Wang_et_al
ICB_resistance_Peng_et_al
T_cell_regulatory_Peng_et_al
Interleukins_Receptor_Li_et_al
Natural_Killer_Cell_Cytotoxicity_Li_et_al
Neutrophils_Rooney_et_al
Chemokine_Receptors_Li_et_al
Cytokine_Receptors_Li_et_al
Interleukins_Li_et_al
Cytokines_Li_et_al
TIP_Trafficking_of_immune_cells_to_tumors
Antimicrobials_Li_et_al
Chemokines_Li_et_al
TIP_Killing_of_cancer_cells_2
Th1_cells_Bindea_et_al
MeTIL_Jeschke_et_al
CD8_T_cells_Bindea_et_al
TLS_Nature
T_cell_exhaustion_Peng_et_al
pDCs_Rooney_et_al
T_cell_probe_Jeschke_et_al

matrix_9 Subtype
1
0.5
0
-0.5
-1

CS1
CS2