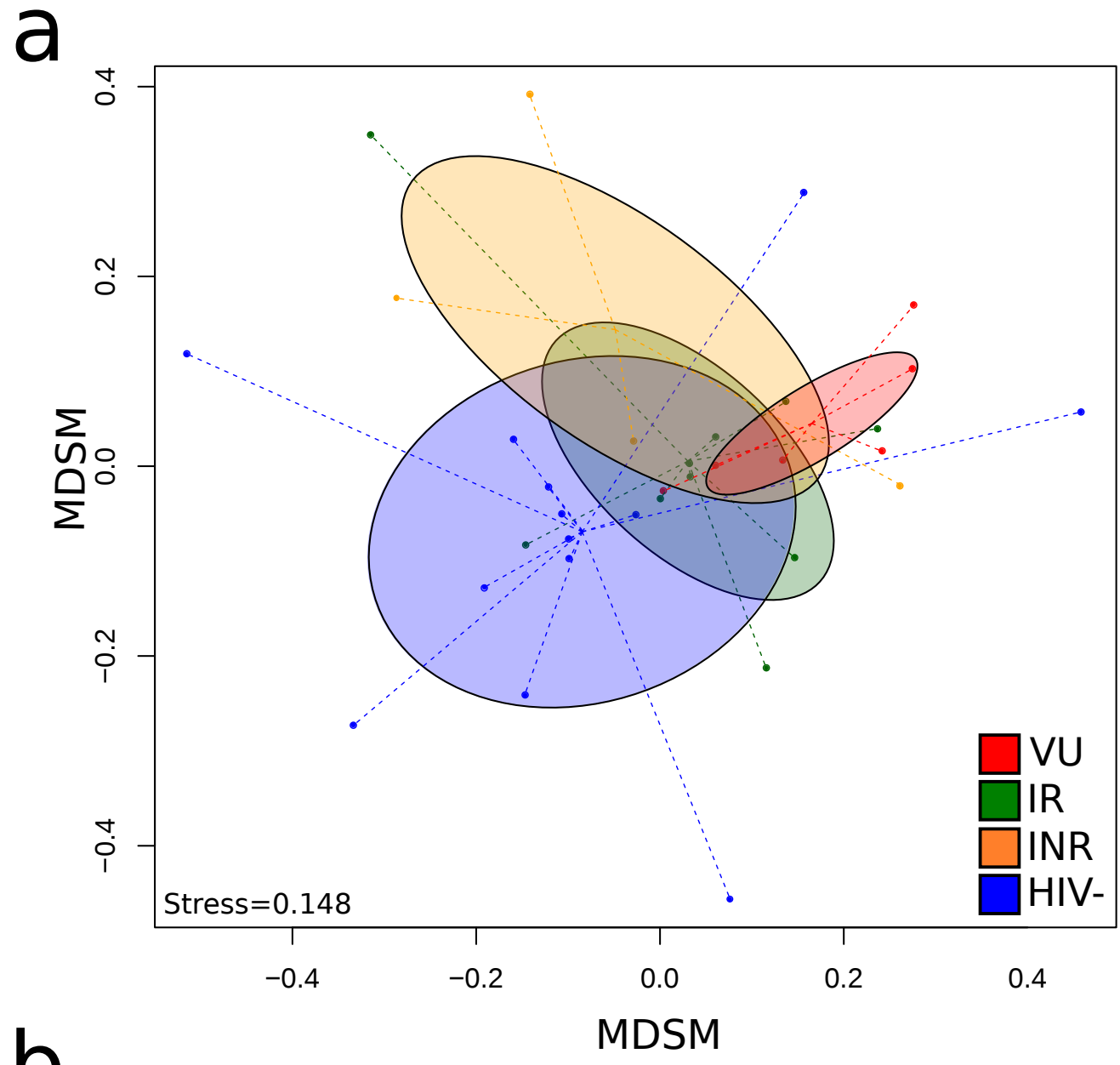
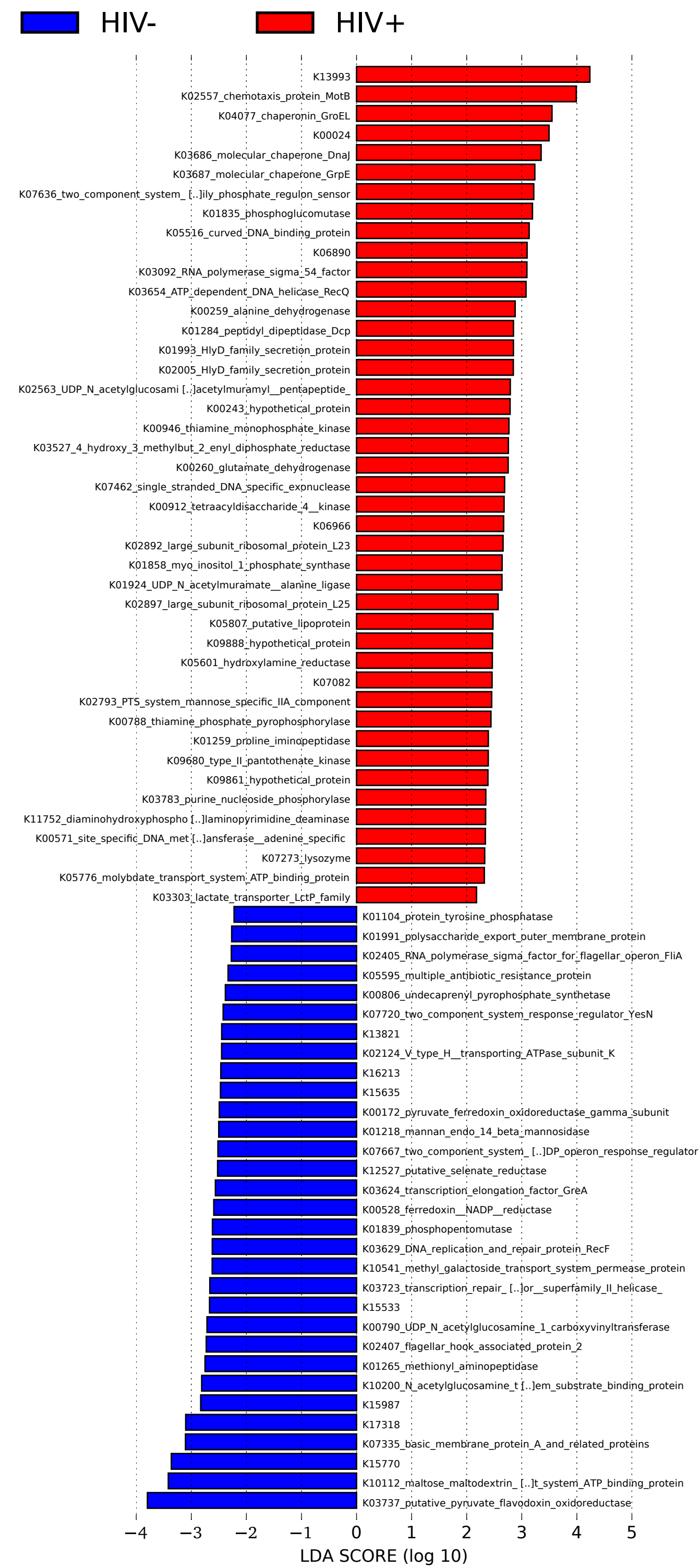
a


MDSM
MDSM
Stress=0.148
VU
IR
INR
HIV-
0.4
0.2
0.0
−0.2
−0.4

b


HIV-
HIV+
K13993
K02557_chemotaxis_protein_MotB
K04077_chaperonin_GroEL
K00024
K03686_molecular_chaperone_DnaJ
K03687_molecular_chaperone_GrpE
K07636_two_component_system_ [..]ily_phosphate_regulon_sensor
K01835_phosphoglucomutase
K05516_curved_DNA_binding_protein
K06890
K03092_RNA_polymerase_sigma_54_factor
K03654_ATP_dependent_DNA_helicase_RecQ
K00259_alanine_dehydrogenase
K01284_peptidyl_dipeptidase_Dcp
K01993_HlyD_family_secretion_protein
K02005_HlyD_family_secretion_protein
K02563_UDP_N_acetylglucosami [..]acetylmuramyl__pentapeptide_
K00243_hypothetical_protein
K00946_thiamine_monophosphate_kinase
K03527_4_hydroxy_3_methylbut_2_enyl_diphosphate_reductase
K00260_glutamate_dehydrogenase
K07462_single_stranded_DNA_specific_exonuclease
K00912_tetraacyldisaccharide_4__kinase
K06966
K02892_large_subunit_ribosomal_protein_L23
K01858_myo_inositol_1_phosphate_synthase
K01924_UDP_N_acetylmuramate__alanine_ligase
K02897_large_subunit_ribosomal_protein_L25
K05807_putative_lipoprotein
K09888_hypothetical_protein
K05601_hydroxylamine_reductase
K07082
K02793_PTS_system_mannose_specific_IIA_component
K00788_thiamine_phosphate_pyrophosphorylase
K01259_proline_iminopeptidase
K09680_type_II_pantothenate_kinase
K09861_hypothetical_protein
K03783_purine_nucleoside_phosphorylase
K11752_diaminohydroxyphospho [..]laminopyrimidine_deaminase
K00571_site_specific_DNA_met [..]ansferase__adenine_specific
K07273_lysozyme
K05776_molybdate_transport_system_ATP_binding_protein
K03303_lactate_transporter_LctP_family
K01104_protein_tyrosine_phosphatase
K01991_polysaccharide_export_outer_membrane_protein
K02405_RNA_polymerase_sigma_factor_for_flagellar_operon_FliA
K05595_multiple_antibiotic_resistance_protein
K00806_undecaprenyl_pyrophosphate_synthetase
K07720_two_component_system_response_regulator_YesN
K13821
K02124_V_type_H__transporting_ATPase_subunit_K
K16213
K15635
K00172_pyruvate_ferredoxin_oxidoreductase_gamma_subunit
K01218_mannan_endo_14_beta_mannosidase
K07667_two_component_system_ [..]DP_operon_response_regulator
K12527_putative_selenate_reductase
K03624_transcription_elongation_factor_GreA
K00528_ferredoxin__NADP__reductase
K01839_phosphopentomutase
K03629_DNA_replication_and_repair_protein_RecF
K10541_methyl_galactoside_transport_system_permease_protein
K03723_transcription_repair_ [..]or__superfamily_II_helicase_
K15533
K00790_UDP_N_acetylglucosamine_1_carboxyvinyltransferase
K02407_flagellar_hook_associated_protein_2
K01265_methionyl_aminopeptidase
K10200_N_acetylglucosamine_t [..]em_substrate_binding_protein
K15987
K17318
K07335_basic_membrane_protein_A_and_related_proteins
K15770
K10112_maltose_maltodextrin_ [..]t_system_ATP_binding_protein
K03737_putative_pyruvate_flavodoxin_oxidoreductase
−4
−3
−2
−1
0
1
2
3
4
5
LDA SCORE (log 10)