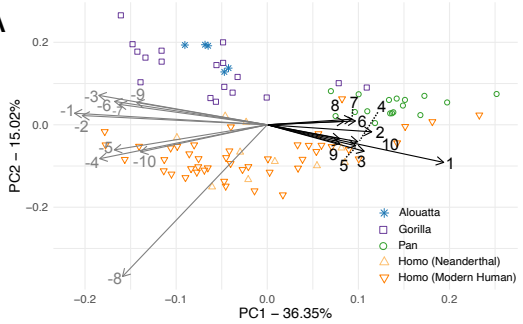
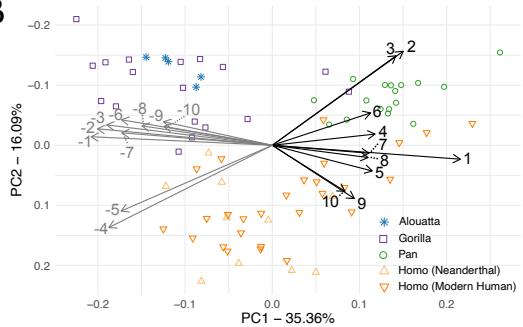
A



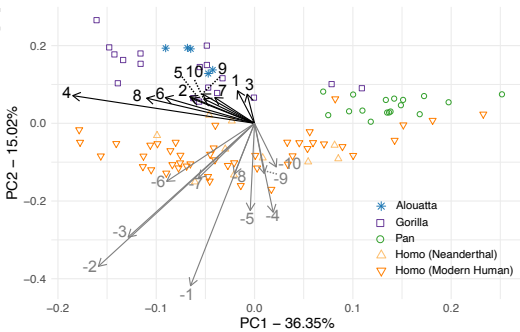
PC1 negative loadings		PC1 positive loadings	
-1	**Sulfite reductase [NADPH] flavoprotein alpha-component (EC 1.8.1.2)**	1	**Duplicated ATPase component BL0693 of energizing module of predicted ECF transporter**
-2	**Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid**	2	**Pyruvate-flavodoxin oxidoreductase (EC 1.2.7.-)**
-3	**Exodeoxyribonuclease V gamma chain (EC 3.1.11.5)**	3	**Pyrophosphate-energized proton pump (EC 3.6.1.1)**
-4	**Glutathione biosynthesis bifunctional protein gshF (EC 6.3.2.2)(EC 6.3.2.3)**	4	**Transport ATP-binding protein CydC**
-5	**Maltodextrin phosphorylase (EC 2.4.1.1)**	5	**Multi antimicrobial extrusion protein (Na(+)/drug antiporter), MATE family of MDR efflux pumps**
-6	**Sulfite reductase [NADPH] hemoprotein beta-component (EC 1.8.1.2)**	6	**DNA topoisomerase III (EC 5.99.1.2)**
-7	**Oligopeptidase A (EC 3.4.24.70)**	7	**Putative mobilization protein BF0133**
-8	Serine endopeptidase ScpC (EC 3.4.21.-)	8	**Conjugative transposon protein TraG**
-9	**Chaperone protein HscA**	9	Pyrophosphate-dependent fructose 6-phosphate-1-kinase (EC 2.7.1.90)
-10	Beta-lactamase (EC 3.5.2.6)	10	Pyruvate,phosphate dikinase (EC 2.7.9.1)

B



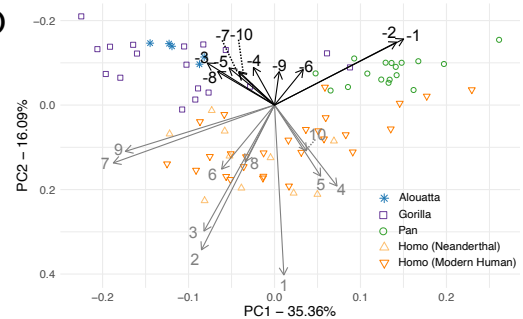
PC1 negative loadings – no modern humans		PC1 positive loadings – no modern humans	
-1	**Sulfite reductase [NADPH] flavoprotein alpha-component (EC 1.8.1.2)**	1	**Duplicated ATPase component BL0693 of energizing module of predicted ECF transporter**
-2	**Exodeoxyribonuclease V gamma chain (EC 3.1.11.5)**	2	**Putative mobilization protein BF0133**
-3	**Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid**	3	**Conjugative transposon protein TraG**
-4	**Glutathione biosynthesis bifunctional protein gshF (EC 6.3.2.2)(EC 6.3.2.3)**	4	**Pyruvate-flavodoxin oxidoreductase (EC 1.2.7.-)**
-5	**Maltodextrin phosphorylase (EC 2.4.1.1)**	5	**Pyrophosphate-energized proton pump (EC 3.6.1.1)**
-6	**Sulfite reductase [NADPH] hemoprotein beta-component (EC 1.8.1.2)**	6	**DNA topoisomerase III (EC 5.99.1.2)**
-7	**Oligopeptidase A (EC 3.4.24.70)**	7	**Transport ATP-binding protein CydC**
-8	**Chaperone protein HscA**	8	**Multi antimicrobial extrusion protein (Na(+)/drug antiporter), MATE family of MDR efflux pumps**
-9	Dihydrolipoamide dehydrogenase of pyruvate dehydrogenase complex (EC 1.8.1.4)	9	V-type ATP synthase subunit A (EC 3.6.3.14)
-10	Exodeoxyribonuclease V beta chain (EC 3.1.11.5)	10	V-type ATP synthase subunit B (EC 3.6.3.14)

C



PC2 negative loadings		PC2 positive loadings	
-1	**Pyruvate-utilizing enzyme, similar to phosphoenolpyruvate synthase**	1	**Acriflavin resistance protein**
-2	**Serine endopeptidase ScpC (EC 3.4.21.-)**	2	**Ribonucleotide reductase of class Ia (aerobic), alpha subunit (EC 1.17.4.1)**
-3	**Pullulanase (EC 3.2.1.41)**	3	Glutathione-regulated potassium-efflux system ATP-binding protein
-4	**Choline binding protein A**	4	Exodeoxyribonuclease V gamma chain (EC 3.1.11.5)
-5	**Sialidase (EC 3.2.1.18)**	5	**3-oxoacyl-[acyl-carrier-protein] synthase, KASI (EC 2.3.1.41)**
-6	**FtsK/SpoIIIE family protein, putative EssC component of Type VII secretion system**	6	**Na(+)-translocating NADH-quinone reductase subunit F (EC 1.6.5.-)**
-7	**ATP-dependent nuclease, subunit B**	7	**GTP pyrophosphokinase (EC 2.7.6.5), (p)ppGpp synthetase II**
-8	Beta-hexosaminidase (EC 3.2.1.52)	8	ATP-dependent DNA helicase Rep
-9	**Alpha-galactosidase (EC 3.2.1.22)**	9	Ribonucleotide reductase of class Ia (aerobic), beta subunit (EC 1.17.4.1)
-10	Alpha-1,2-mannosidase	10	Catalase (EC 1.11.1.6)

D



PC2 negative loadings – no modern humans		PC2 positive loadings – no modern humans	
-1	Putative mobilization protein BF0133	1	**Pyruvate-utilizing enzyme, similar to phosphoenolpyruvate synthase**
-2	Conjugative transposon protein TraG	2	**Serine endopeptidase ScpC (EC 3.4.21.-)**
-3	**Na(+)-translocating NADH-quinone reductase subunit F (EC 1.6.5.-)**	3	**Pullulanase (EC 3.2.1.41)**
-4	**Acriflavin resistance protein**	4	**Choline binding protein A**
-5	**Ribonucleotide reductase of class Ia (aerobic), alpha subunit (EC 1.17.4.1)**	5	**Sialidase (EC 3.2.1.18)**
-6	Ferric iron ABC transporter, permease protein	6	**FtsK/SpoIIIE family protein, putative EssC component of Type VII secretion system**
-7	**GTP pyrophosphokinase (EC 2.7.6.5), (p)ppGpp synthetase II**	7	Glutathione biosynthesis bifunctional protein gshF (EC 6.3.2.2)(EC 6.3.2.3)
-8	**3-oxoacyl-[acyl-carrier-protein] synthase, KASI (EC 2.3.1.41)**	8	**ATP-dependent nuclease, subunit B**
-9	Phosphoenolpyruvate carboxykinase [ATP] (EC 4.1.1.49)	9	Maltodextrin phosphorylase (EC 2.4.1.1)
-10	Lipid-A-disaccharide synthase (EC 2.4.1.182)	10	**Alpha-galactosidase (EC 3.2.1.22)**