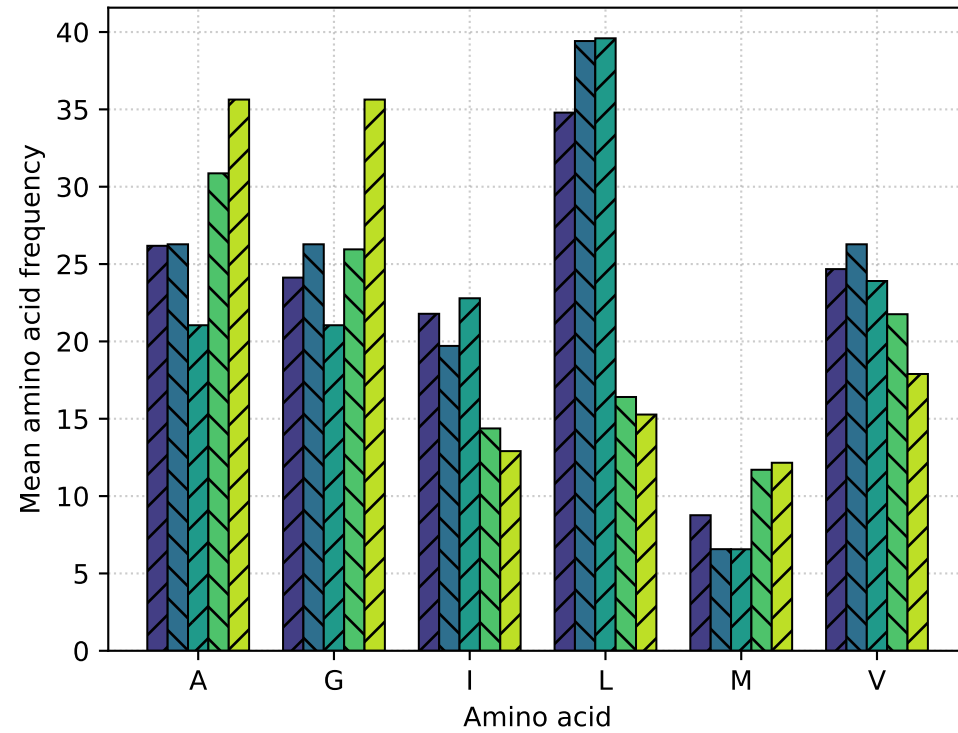


# Viruses - Correlation of amino acid frequency for genetic code: Standard

## Aliphatic amino acids

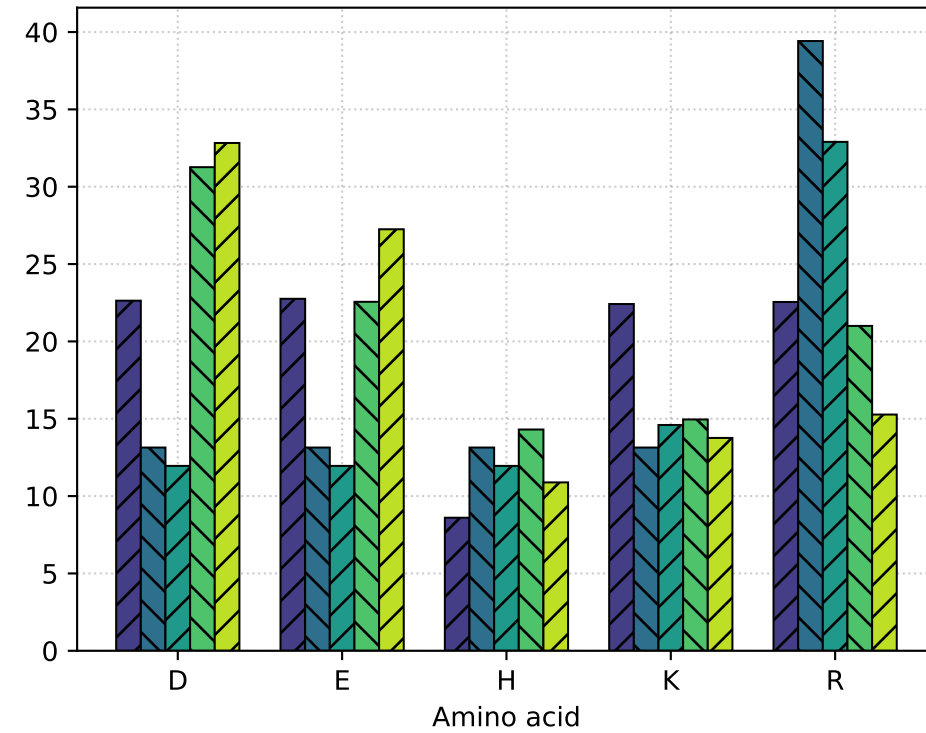


Observed  
 Codon  
 Codon+GC  
 Cost (Akashi)  
 Cost (Kaleta)

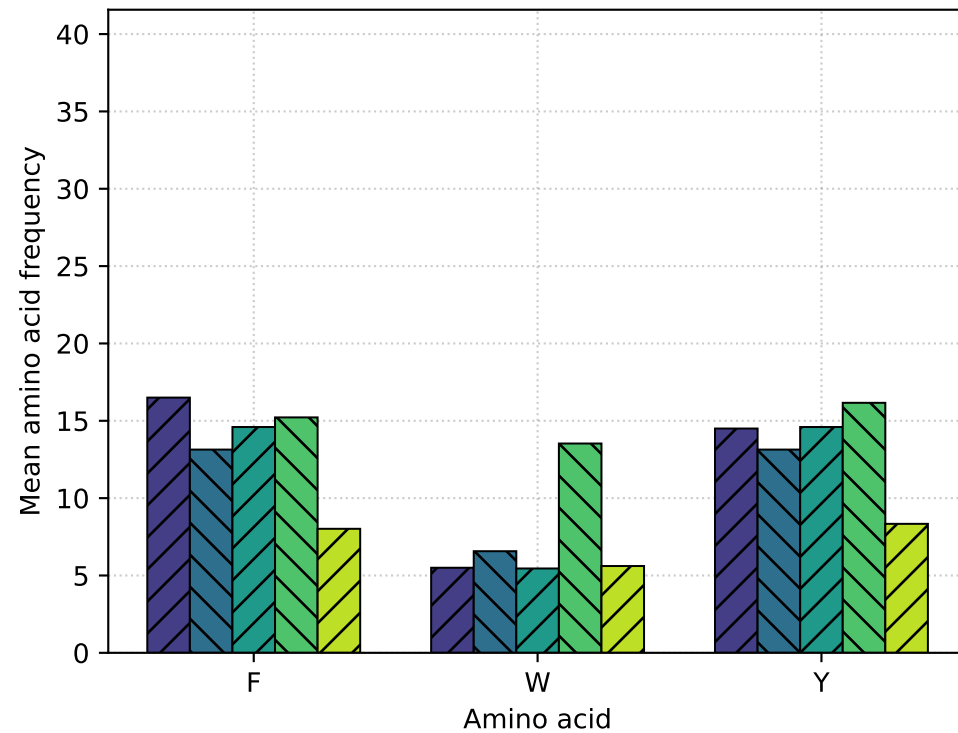
Codon correlation:  
 -  $p_{cc}$ : 0.67;  $p_{pcc}$ : 1.1e-03  
 -  $r_2$ : 0.69;  $p_{r_2}$ : 7.9e-04

Codon + GC correlation:  
 -  $p_{cc}$ : 0.74;  $p_{pcc}$ : 2.1e-04  
 -  $r_2$ : 0.70;  $p_{r_2}$ : 5.4e-04

## Charged amino acids



## Aromatic amino acids



Cost(Akashi) correlation:  
 -  $p_{cc}$ : 0.46;  $p_{pcc}$ : 4.1e-02  
 -  $r_2$ : 0.55;  $p_{r_2}$ : 1.2e-02

Cost(Kaleta) correlation:  
 -  $p_{cc}$ : 0.45;  $p_{pcc}$ : 4.8e-02  
 -  $r_2$ : 0.50;  $p_{r_2}$ : 2.4e-02

## Uncharged amino acids

