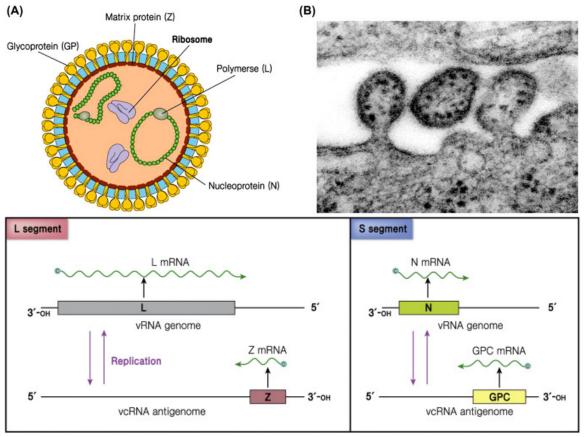
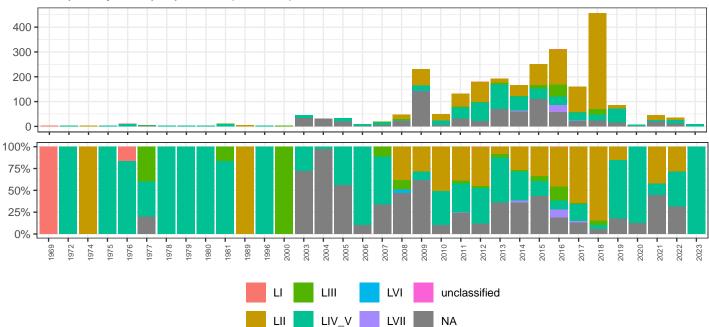
# Background

Lassa has two segments "L" and "S" from Chapter 16 of "Molecular Virology of Human Pathogenic Viruses" by Wang-Shick Ryu



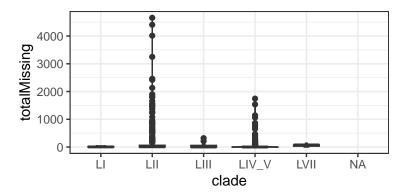
# **Exploratory Graphics**

# Frequency and proportion (n=2552)



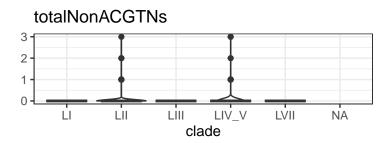
# L segment Nextclade Dataset

## Missing Data



## Mixed Sites (M)

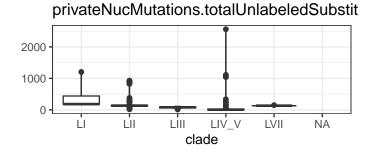
--mixedSitesThreshold 10 # More than this number of mixed sites results in a "bad" score

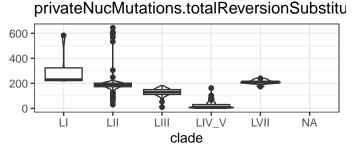


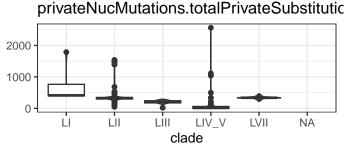
## **Private Mutations**

```
"privateMutations": {
    "enabled": true,
    "typical": 8,
    "cutoff": 24,
    "weightLabeledSubstitutions": 4,
    "weightReversionSubstitutions": 6,
    "weightUnlabeledSubstitutions": 1
},
```

# privateNucMutations.totalLabeledSubstitu 0.050 0.025 0.000 -0.025 -0.050 LI LII LIII LIV\_V LVII NA clade

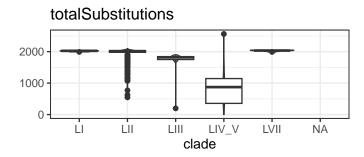


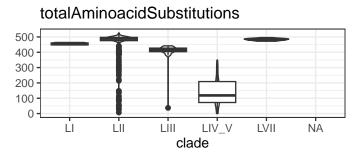


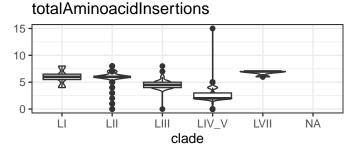


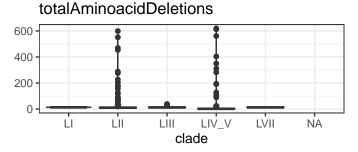
## Mutation clusters

```
"snpClusters": {
   "enabled": true,
   "windowSize": 100,
   "clusterCutOff": 6,
   "scoreWeight": 50
},
```



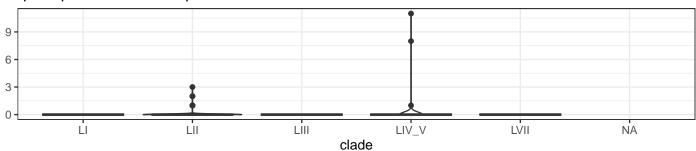






## Stop Codons

# qc.stop Codons.total Stop Codons



## Frameshifts

# totalFrameShifts

