Mutations arising in SARS-CoV-2 spike on sustained human-to-human transmission and human-to-animal passage

- B.1.1.7 mutations
- B.1.351 mutations
- P.1 mutations
- B.1.429 mutation
- Mutations common to more than one VoC
- Human to animal mutations

- Mutations in RBD:
  - N501Y
  - Y453F
  - E484K
  - K417N

- Mutations in NTD:
  - ΔH69
  - ΔV70
  - ΔL242
  - ΔA243
  - ΔL244

- FURIN CLEAVAGE SITE:
  - S668
  - ΔQ675, ΔT676, ΔQ677, ΔT678, ΔN679

- C-terminus:
  - S1147L

- Mutations in other regions:
  - D1118H
  - F486L
  - Q493H/K

- Human to animal mutations:
  - RBD mutations
  - NTD mutations

- Host species:
  - Human
  - Gorilla
  - Dog
  - Cat
  - Lion
  - Mink
  - Ferret
  - Mouse
  - Hamster