Resource for downloading structural data: www.rcsb.org



Search for proteins using keywords eg: "SARS-CoV-2 Spike" Search for proteins using PBD ID eg: "6VXX"



Premade Pymol session file: Seq Africa Spike Session.pse



Prepared two views: RBD down RBD up

Command: rotate x, 90 will change the view to "top view" (as approached by cell / ACE2)



Rotate x, -90 will return the view to "side view"



Mouse controlsLeft button:Click within molecule to rotateRight button:ZoomMiddle button:Slice

Spike Trimer



Premade domain selections

all	Ĥ	S	Η	L	C
Spike-b 1/1	A	S	Η	L	С
Spike-a-DOWN 1/1	A	S	Η	L	C
Spike-c 1/1	A	S	Η	L	C
Spike-a-UP 1/1	Ĥ	S	Η	L	C
(NTD)	Ĥ	S	Η	L	C
(SBD1_2)	Ĥ	S	Η	L	C
(RBD)	A	S	Η	L	C
(S2)	Ĥ	S	Η	L	C





Show the selected residue in a way that stands out



Generate an image





Exercise

Generate an image of SARS-CoV-2 spike trimer, with one RBD in the UP position, showing residue positions 484, and 614 as red spheres.



Contact: Constantinos Kurt Wibmer kurtw@nicd.ac.za