

Pittsburgh does vaccines ...

from poliovirus ... to SARS-2-coronavirus ...



at the Center for Vaccine Research

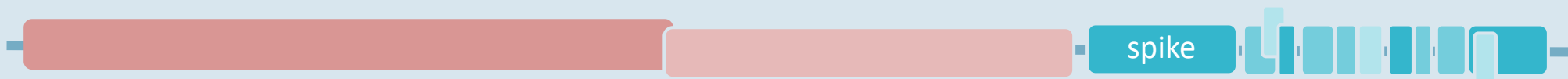
it's all about the spike!



and making antibodies to it!

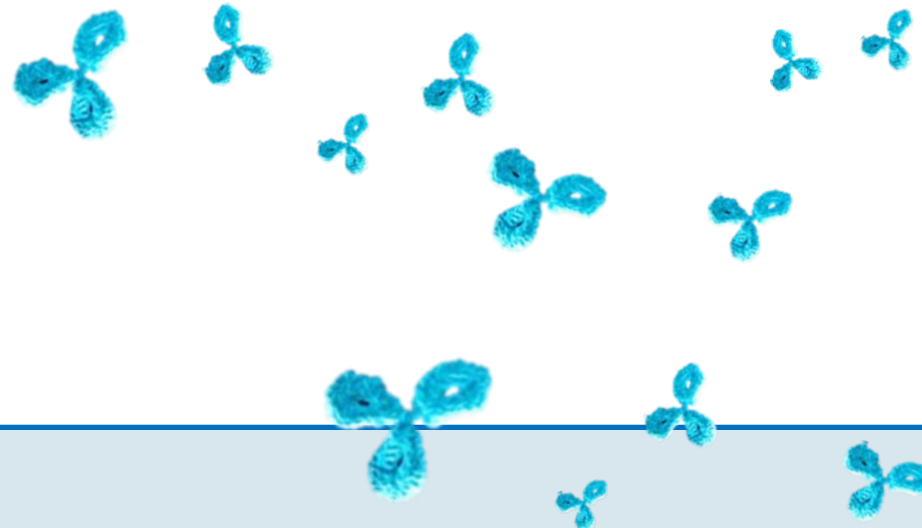


the genome of SARS-CoV-2

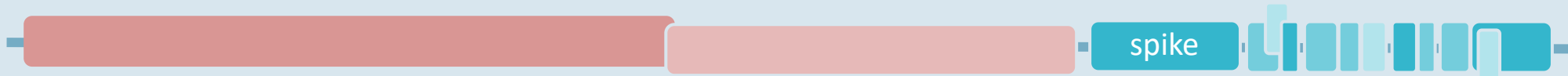


... creative vaccinology ...

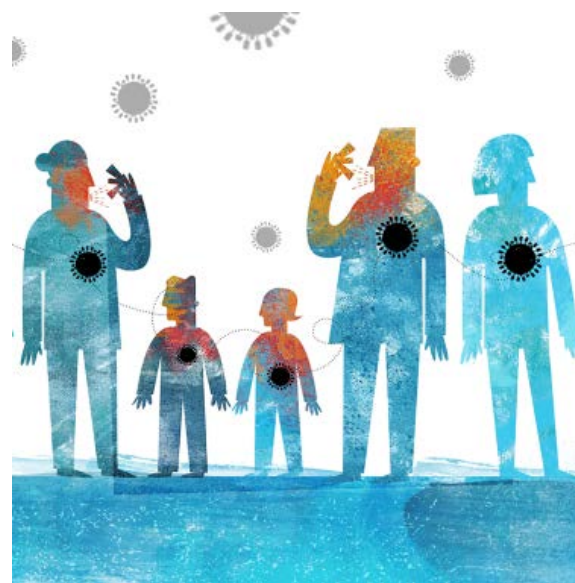
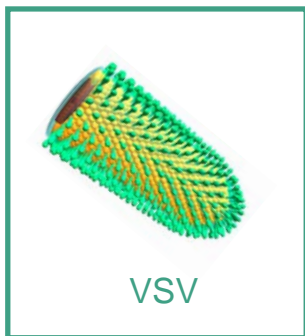
today we can make vaccines in ways Jonas Salk could only have dreamed of when he was inactivating poliovirus



the genome of SARS-CoV-2



... creative vaccinology ...



... it's a race ... but it isn't ...

vaccines are slow ... fast but not rushed ...



first may not be best

it's not a vaccine ... until it's a product ...

... and that means hundreds of millions of doses ...



which have to be distributed to the world

bridges not bubbles ...



collaboration and healthy competition ... for the good of global public health