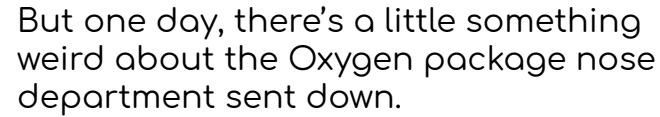


How SARS COV2 AFFECT OUR BODY

Our body has many many cells. They all live and work together, to keep us alive and healthy. Each organ is like a different departments, they have different duties and different functions.

Nose and lung department are cooperating together, they are in charge of our breathing. Nose delivers air package to the lung, and lungs take out the oxygen and send it to other organ departments through the blood.



...A pikey shape virus is attached to it.

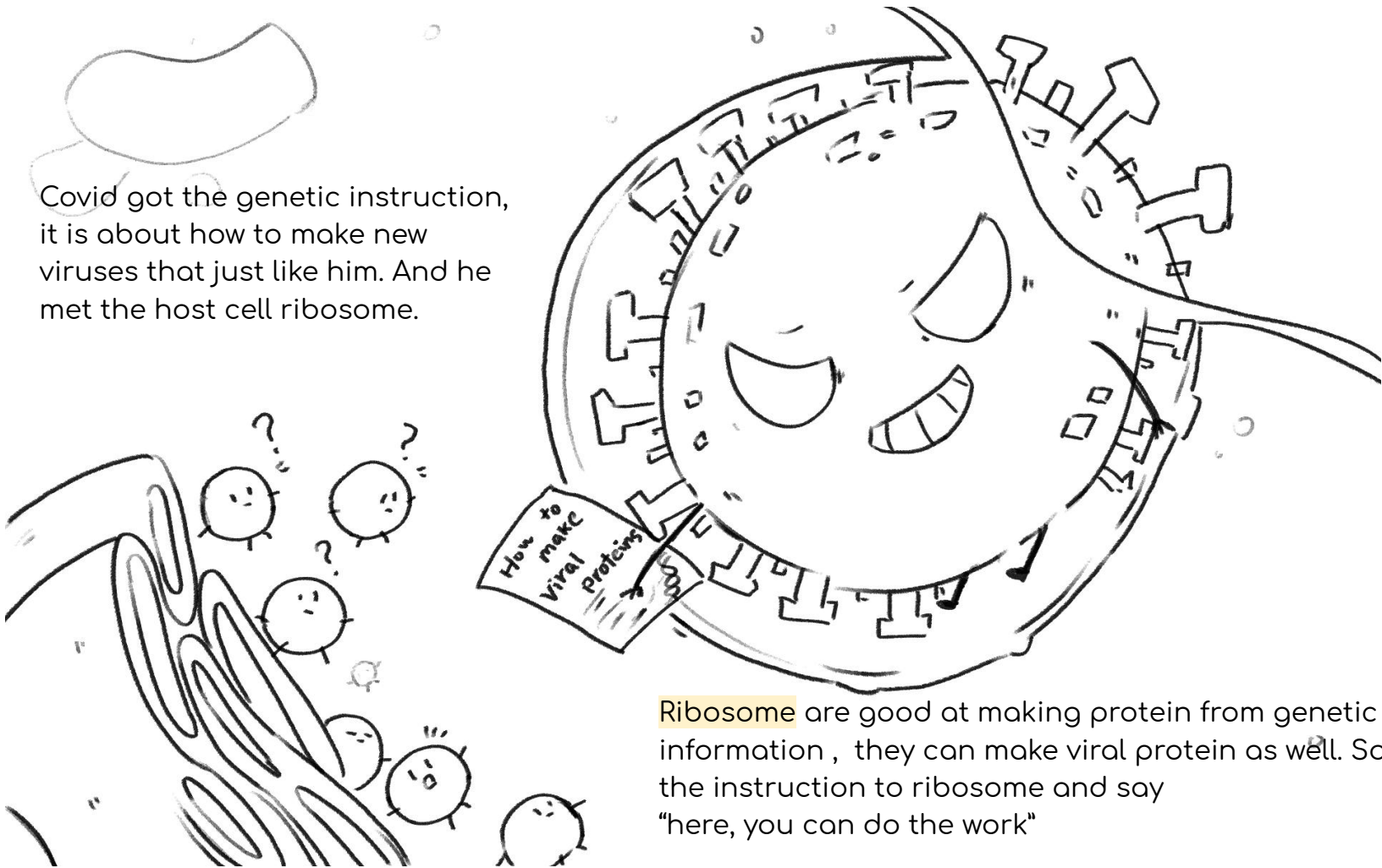


This is nothing like I have ever seen, what can this weird thing be? The cells are confused, they don't know what to do with this special package.

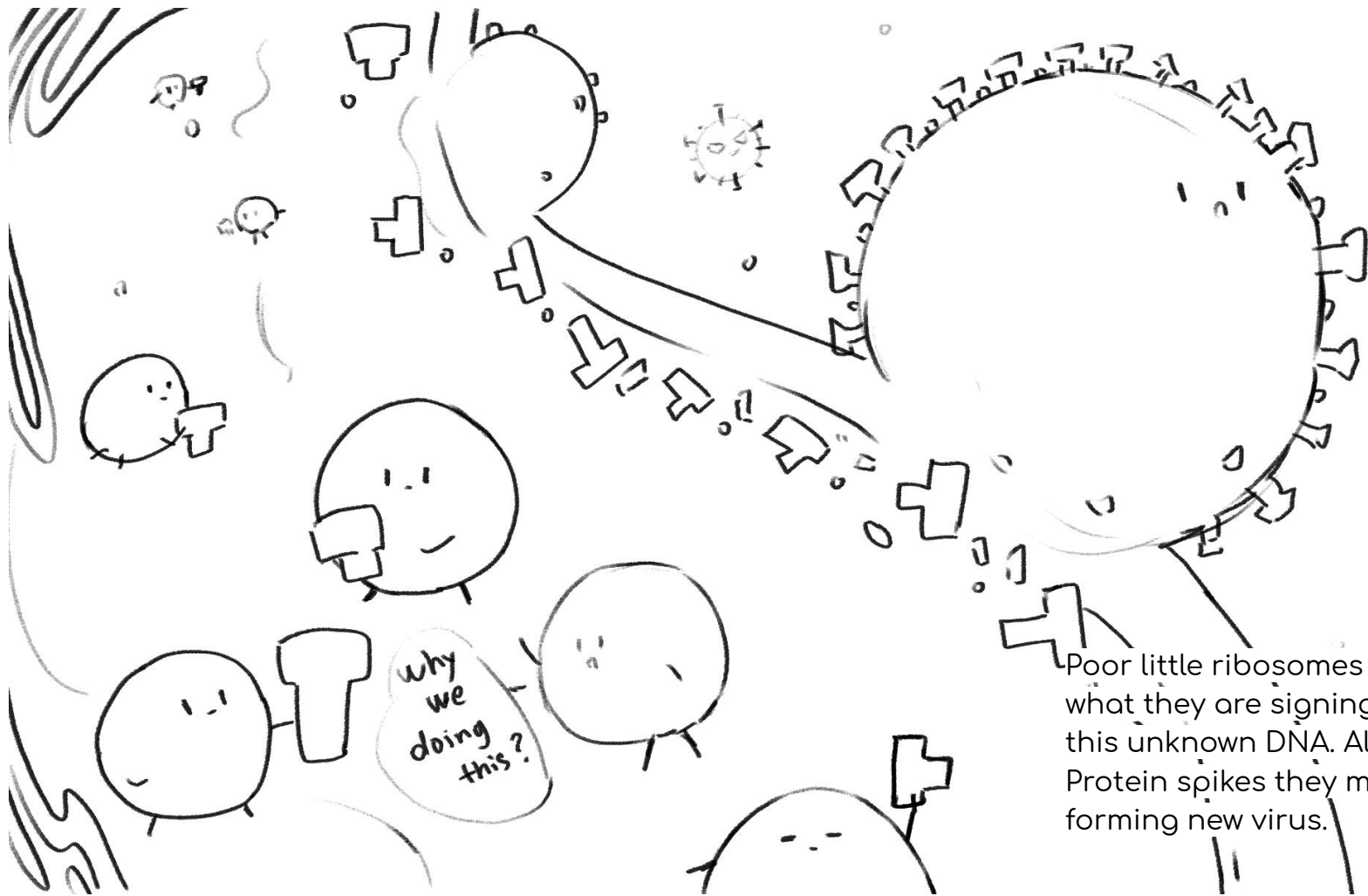


Oh no, it suddenly jumps up and inserts to a cell's receptor. It's trying to get inside of the cell with a secret informations.

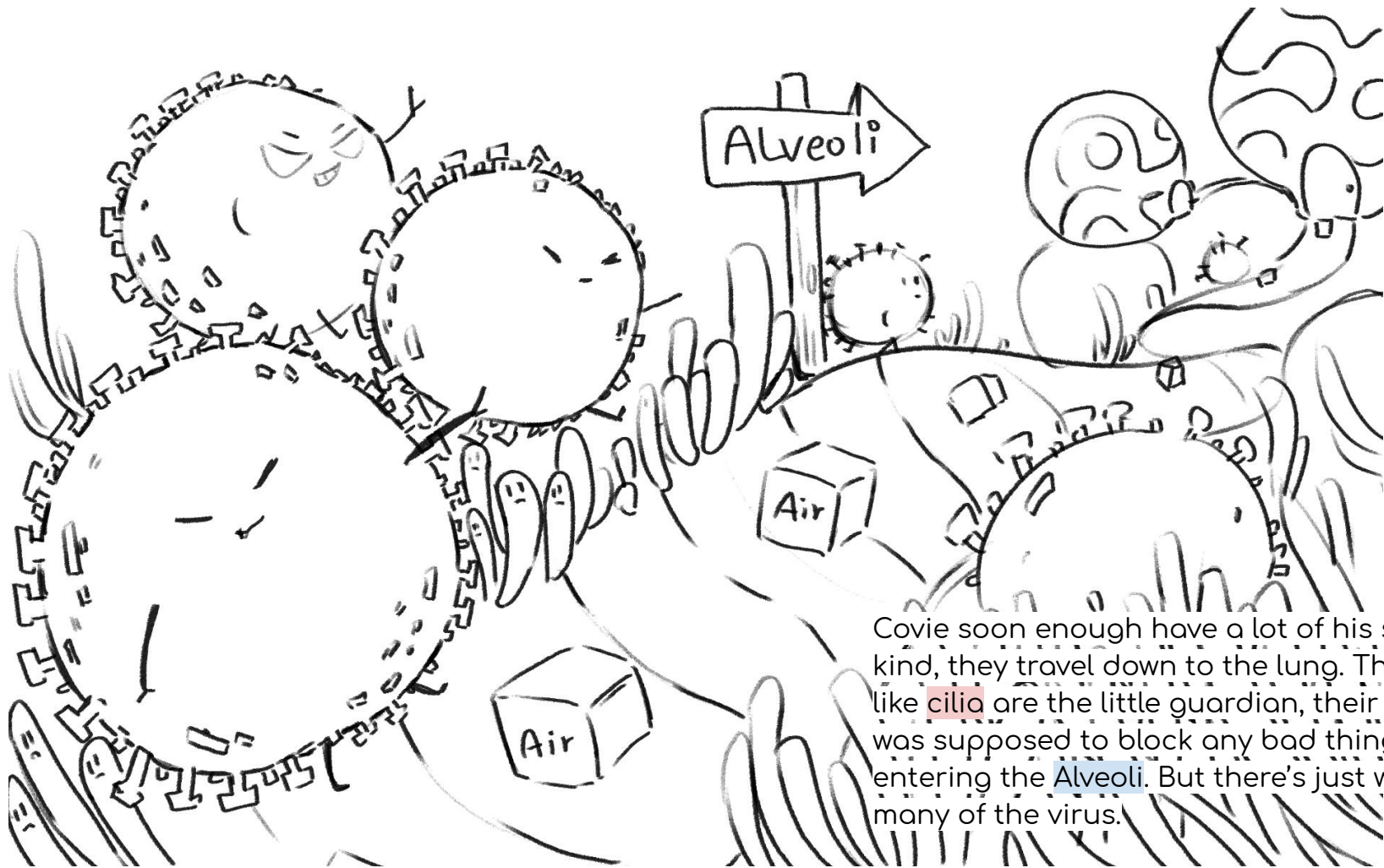
Covid got the genetic instruction, it is about how to make new viruses that just like him. And he met the host cell ribosome.



Ribosome are good at making protein from genetic information , they can make viral protein as well. So he hand the instruction to ribosome and say "here, you can do the work"

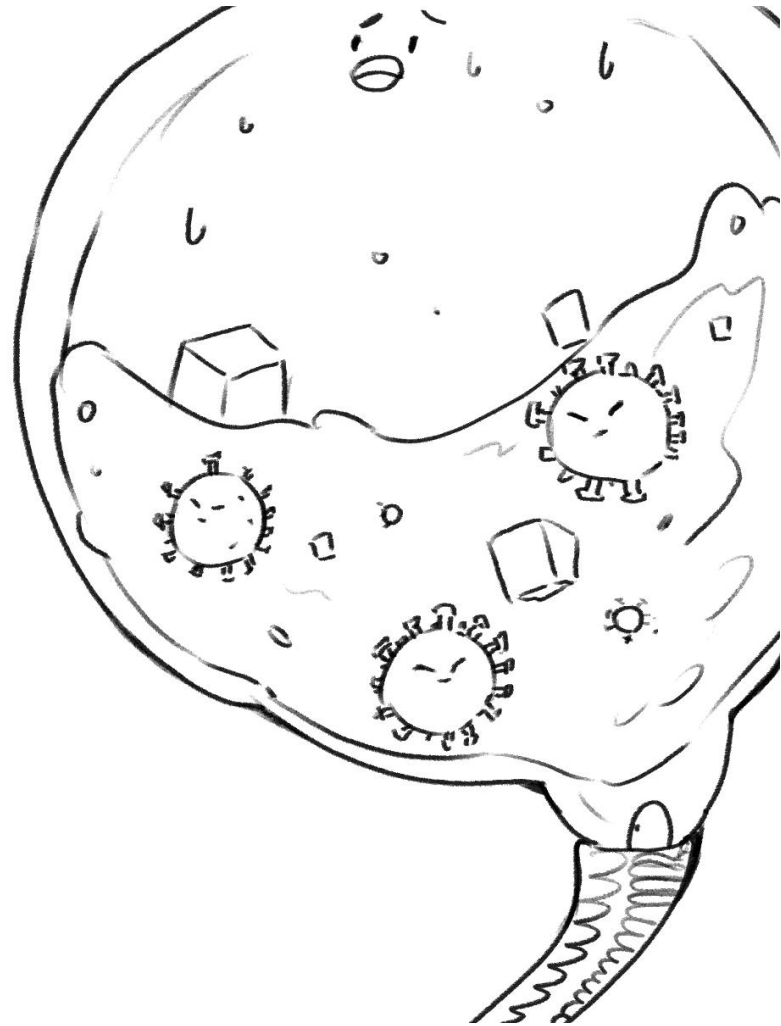


Poor little ribosomes have no idea what they are signing up for with this unknown DNA. All the little Protein spikes they make are forming new virus.

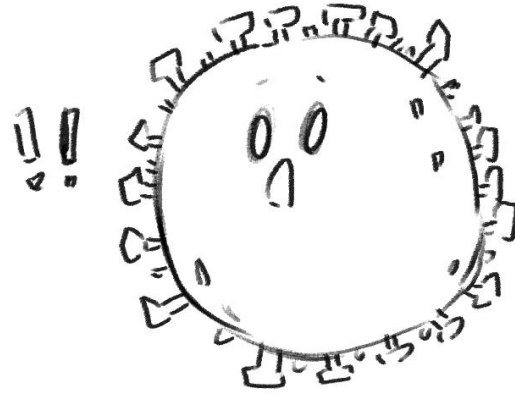


Covid soon enough have a lot of his same kind, they travel down to the lung. The glass like **cilia** are the little guardian, their duty was supposed to block any bad things from entering the **Alveoli**. But there's just way too many of the virus.

Now the alveoli is infected and filled with the liquid and having trouble handling air package .



But don't worry, we have
immune system. They are
our body's guardian.



Phagocytes are a great fighter, he might
seems like a weird eater, but he can
identify the antigen, the virus hiding
secret of their weakness.

And then this information will be turn in to B cell and T cell. B cell are the scientist of the body, they study how to make this antibodies to protect us better.

And T cell ,also known as the" killer" -- some nice one, they only kill virus that bad for the body.



The use the secret weakness they gather to make this unique antibodies to produce special protein called antibodies. They are like a sticky bomb.



Those Sticky bomb will travel around the body, kill all the bad guy that's bad for the body.



The End ☀

After long day of work, all cell can live peacefully again. Good job!

Resource

<https://www.goodrx.com/blog/how-the-immune-system-fights-covid-19/#:~:text=As%20part%20of%20this%20response,destroyed%20by%20other%20immune%20cells.>

<https://www.who.int/news-room/q-a-detail/herd-immunity-lockdowns-and-covid-19>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7467009/>

https://www.youtube.com/watch?v=PSRJfaAYkW4&feature=emb_logo

<https://www.youtube.com/watch?v=5DGwOJXSxqg&t=209s>