



Olga Markova - Hélène Moreau

Limited
Edition

Coronavirus *loses* the battle

A story about fighting COVID-19

LE BUVEUR
D'ENCRE

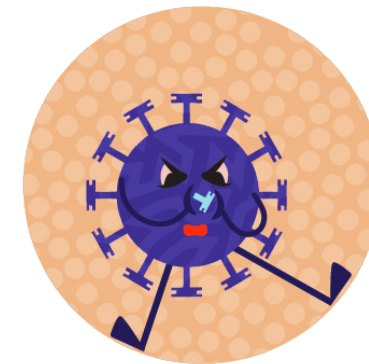
Esprits
Curieux


institutCurie

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Hélène Moreau

Coronavirus loses the battle

A story about
fighting COVID-19



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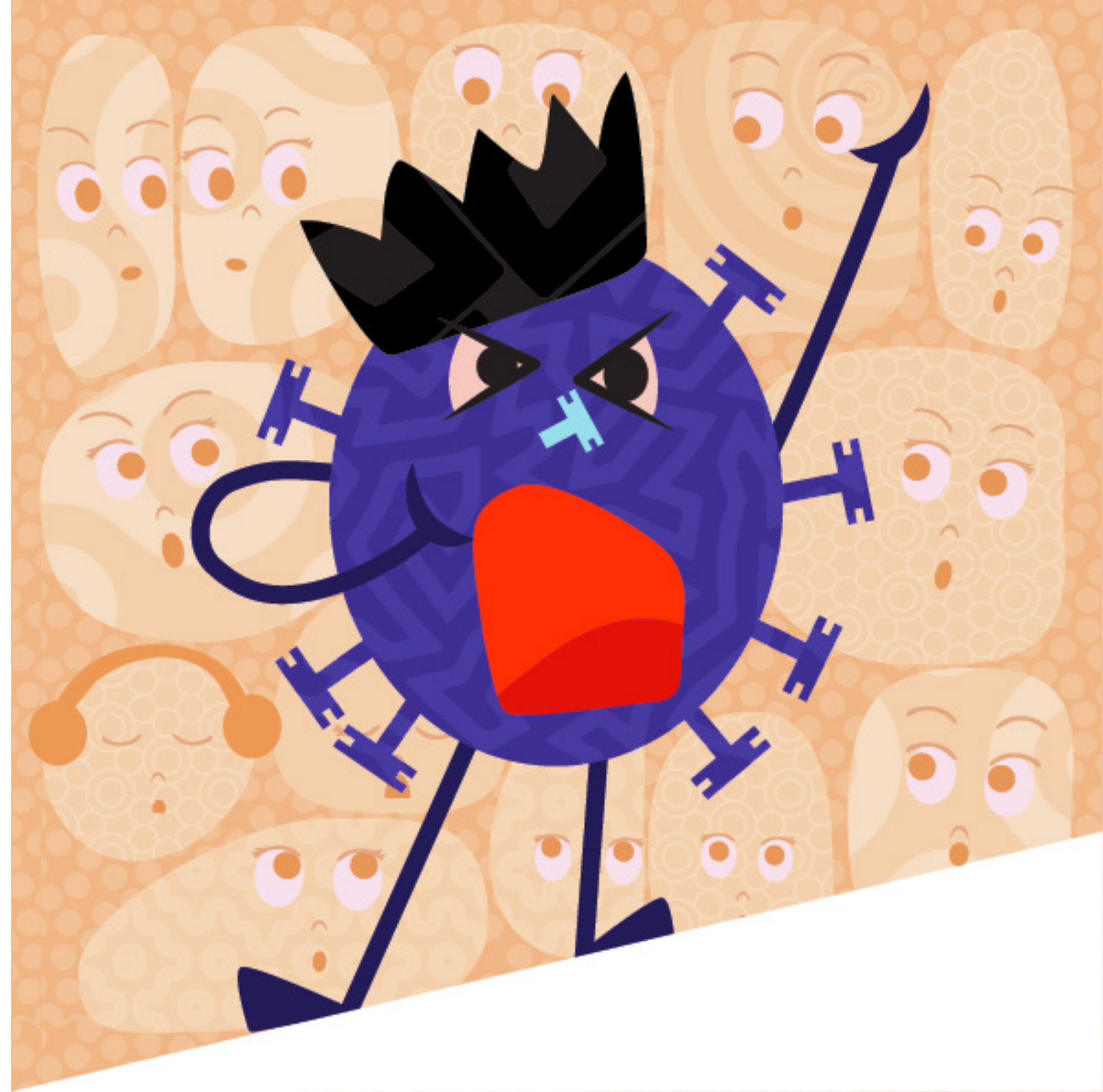
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One day, Lucas' dad touched an object that Coronavirus was sitting on. Coronavirus moved onto his hand. Dad did not notice this and touched his face.
It was at that moment that Coronavirus latched onto Dad's nose and went down into Dad's lungs.
– "Let's go! Attack!", shouted Coronavirus.



Coronavirus had many keys attached to his body. He was a nasty virus. Coronavirus wanted all the cells to obey him. He decided to conquer the whole world. He put on a crown, and proclaimed himself “Coronavirus: king of all the viruses”.

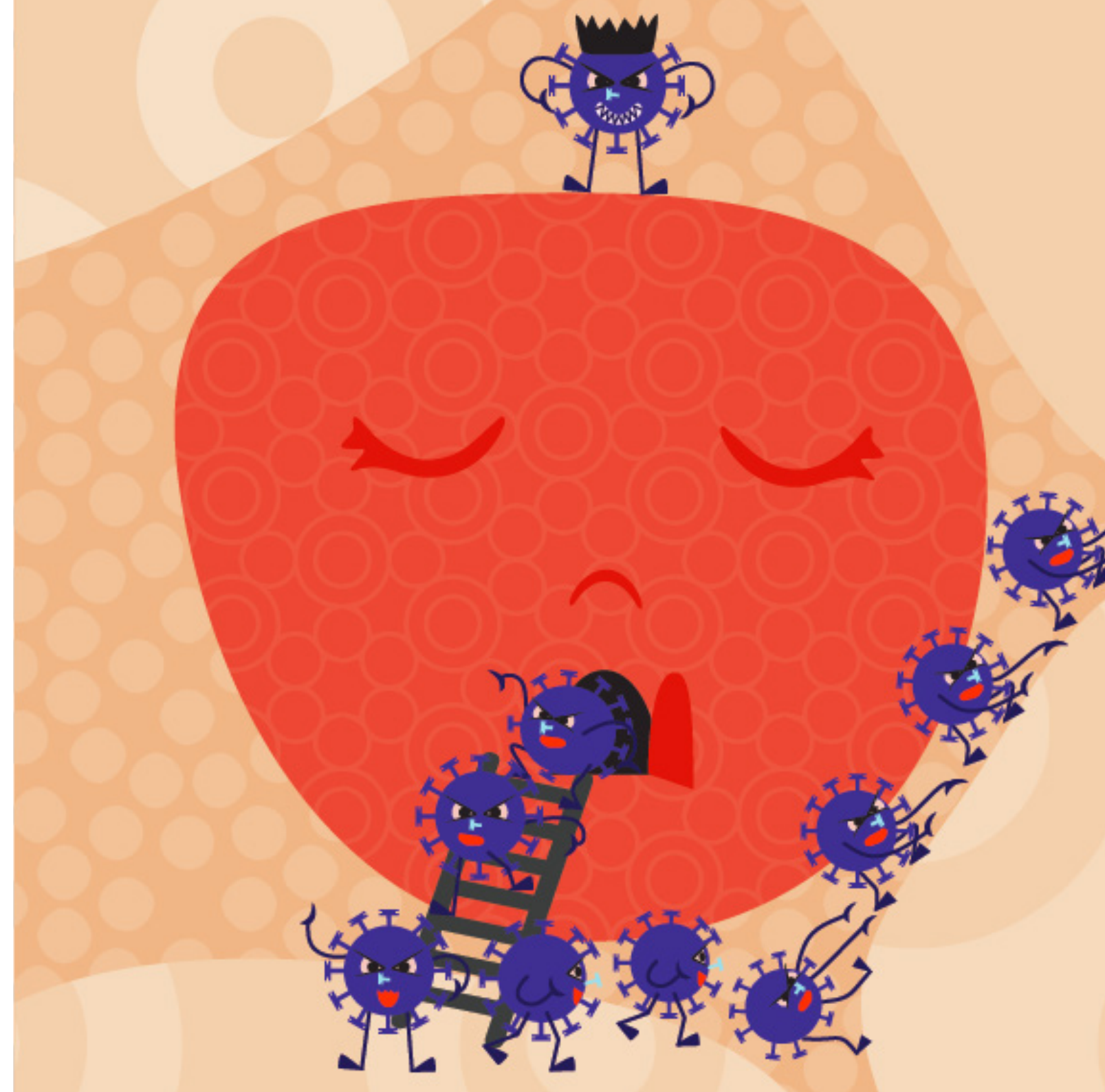




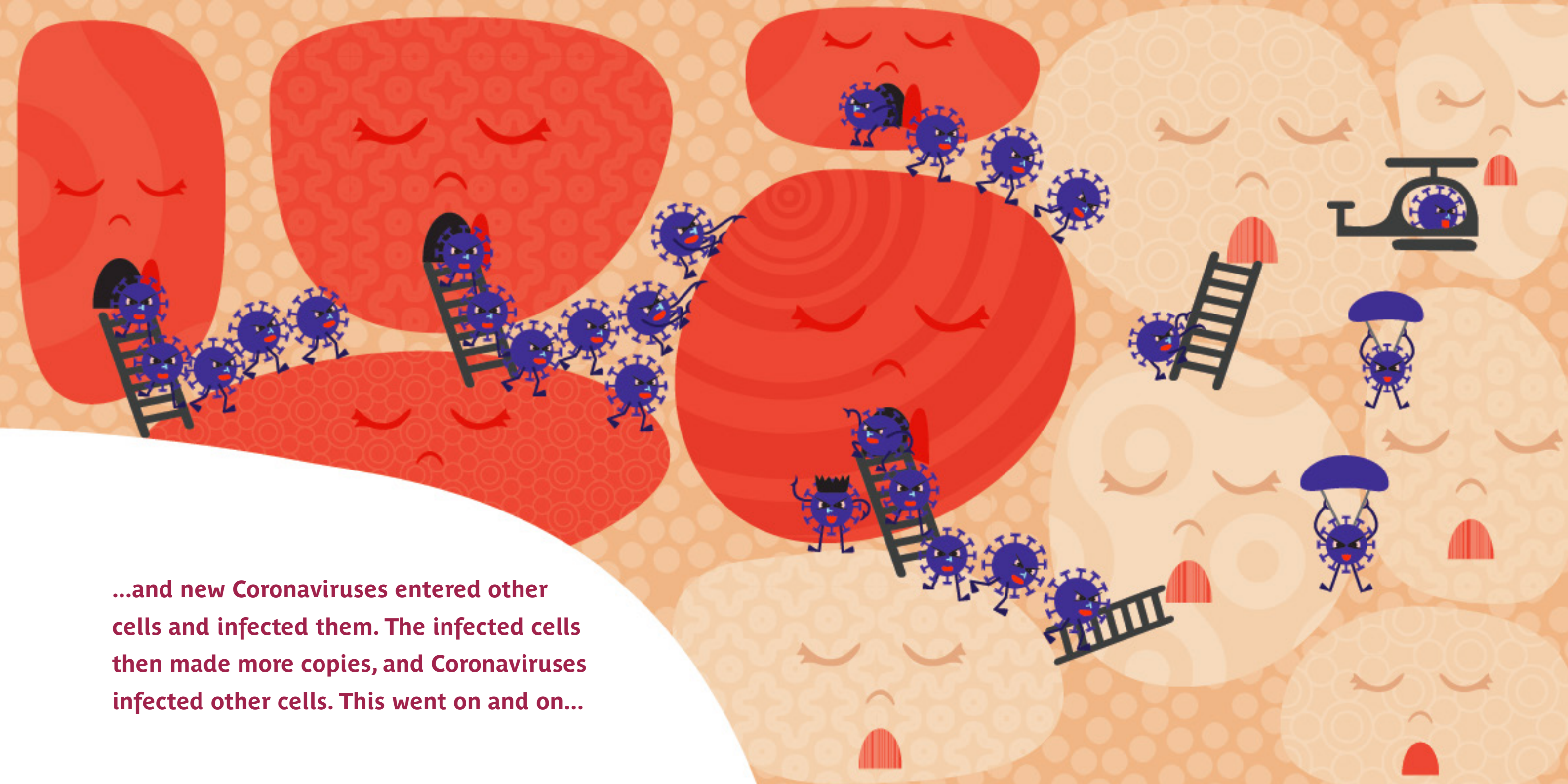
To enter a cell, Coronavirus tried one key, but it did not work. So, he tried again and again, until finally, one of his keys worked! Coronavirus could now open the cell door and enter.



Inside the cell, Coronavirus started his plan to multiply.
He took over the cell to create more viruses identical to himself. These copies then began to leave the cell...

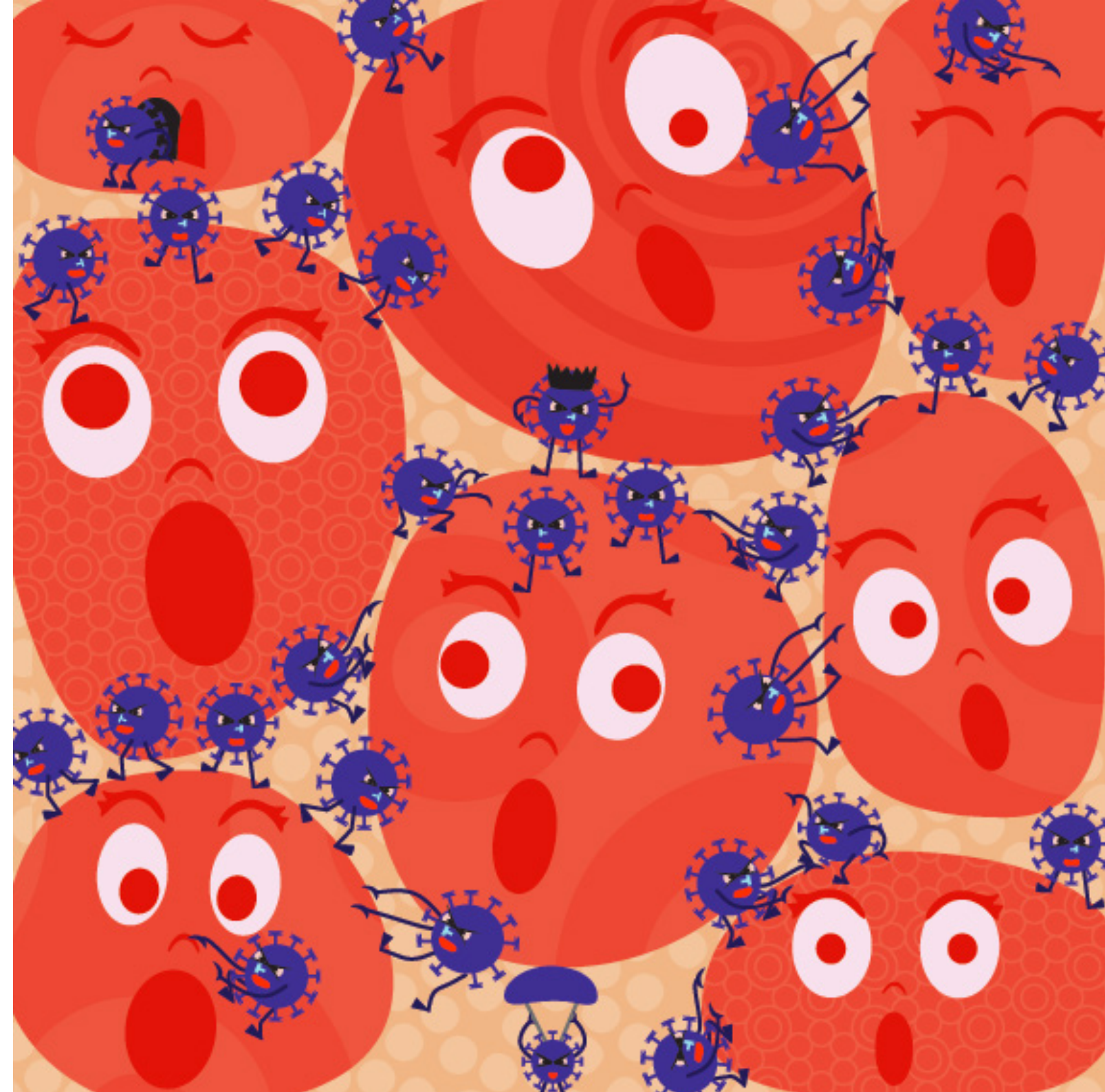


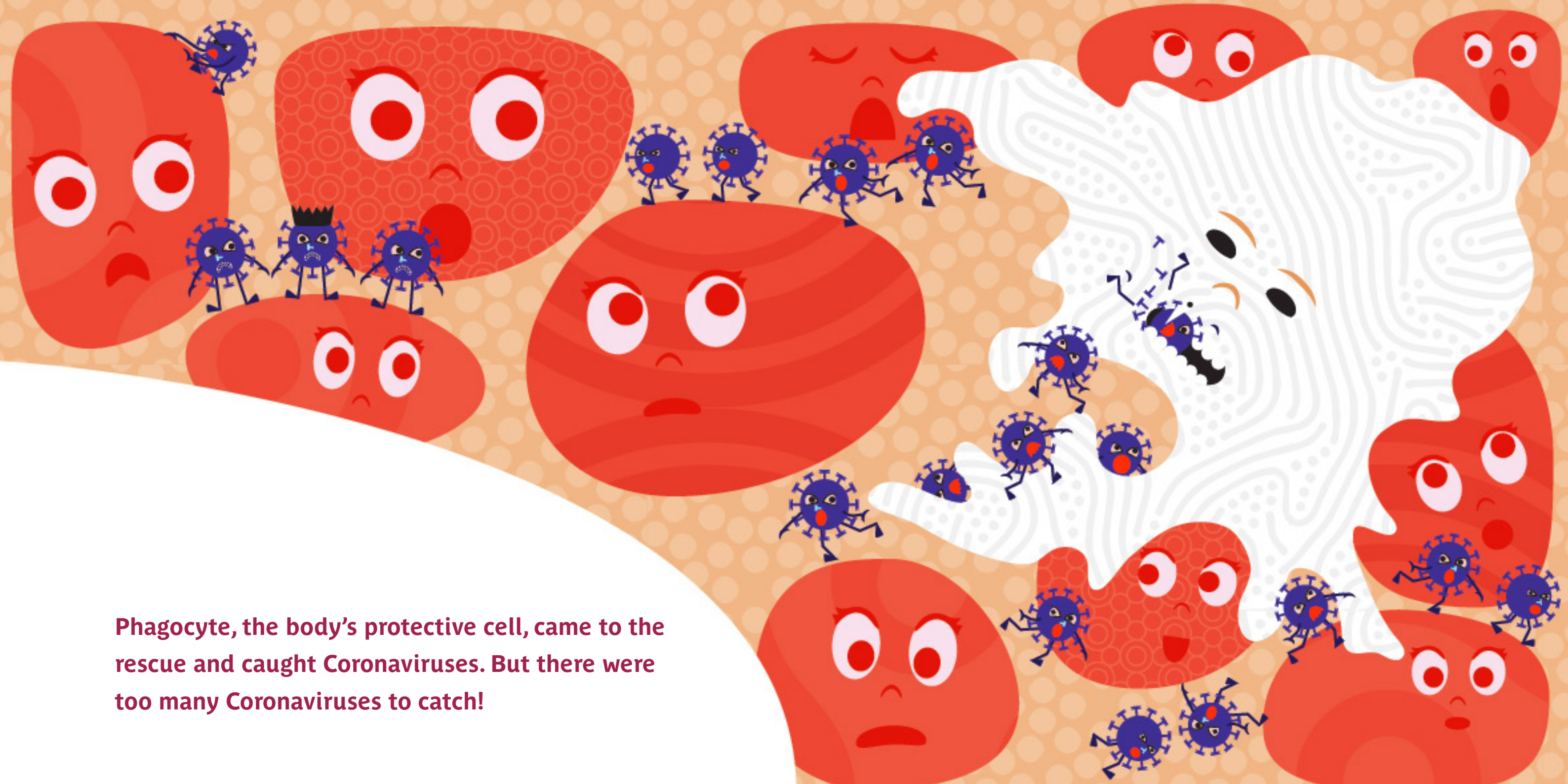
...and new Coronaviruses entered other cells and infected them. The infected cells then made more copies, and Coronaviruses infected other cells. This went on and on...



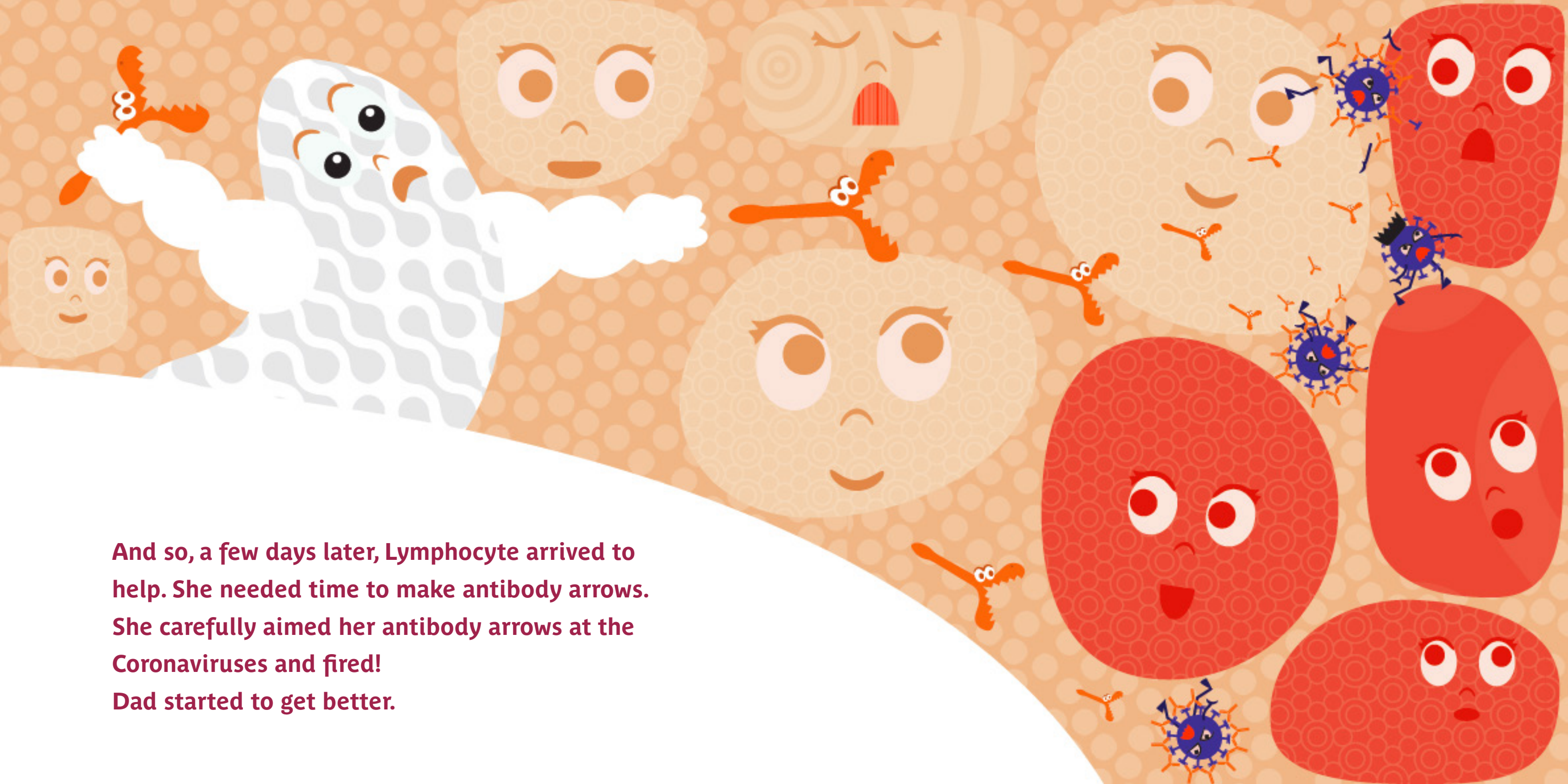
The infected cells produced many, many Coronavirus copies. Dad's lungs could no longer stay healthy. Dad coughed, and coughed, and needed rest.

– “How terrible! Coronaviruses are everywhere! Help, help!”, screamed the cells in Dad's lungs.





Phagocyte, the body's protective cell, came to the rescue and caught Coronaviruses. But there were too many Coronaviruses to catch!

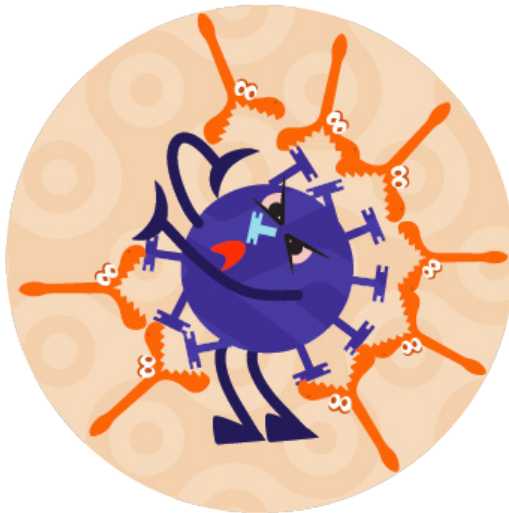


And so, a few days later, Lymphocyte arrived to help. She needed time to make antibody arrows. She carefully aimed her antibody arrows at the Coronaviruses and fired! Dad started to get better.

Coronavirus noticed that he was losing the battle against Lymphocyte and Phagocyte. This made him very angry.

– “You will not stop me like that! I am the king!”, said Coronavirus.

But at this point, the Coronavirus army was getting smaller and smaller. Dad was finally feeling better.





Dad coughed. Coronavirus flew out of Dad's mouth and landed on the dresser.

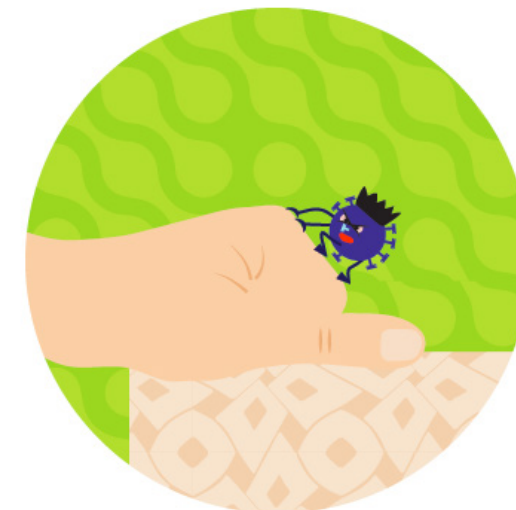


When Lucas got home, he placed his hand exactly where Coronavirus was hiding on the dresser.

Oops!

Coronavirus saw another opportunity and clung onto Lucas' finger.

– “Aha-ha”, laughed Coronavirus. “This child will now put his finger in his mouth and I will enter his body to make another army!”

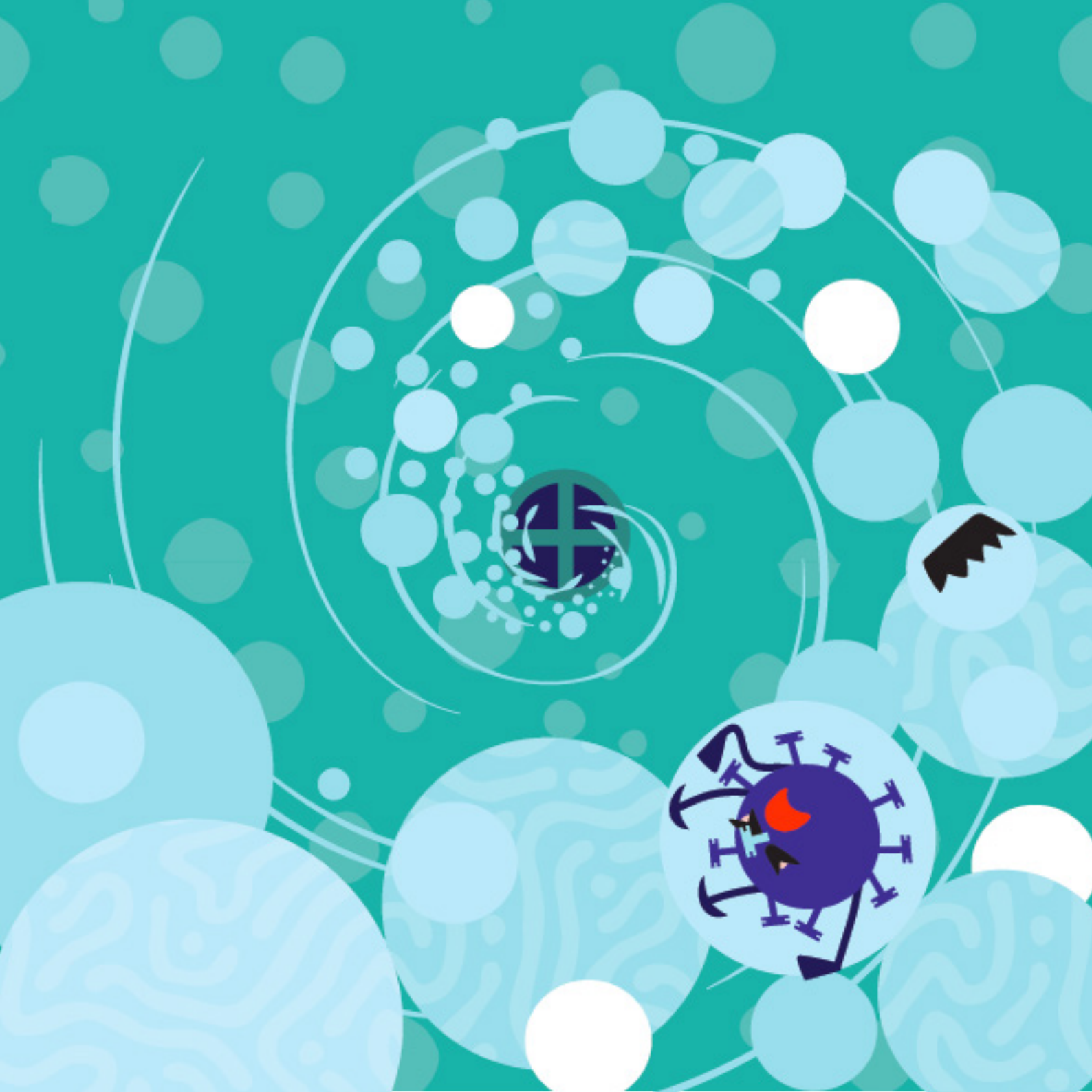




Lucas was good at washing his hands. He ran to wash his hands with soap and water. He washed them well. One of the soap bubbles captured Coronavirus.

– “Help!” yelled Coronavirus, “I am stuck in the bubble!”





Very quickly, Coronavirus disappeared down the sink.

**Goodbye Coronavirus!
Coronavirus will never be king!**



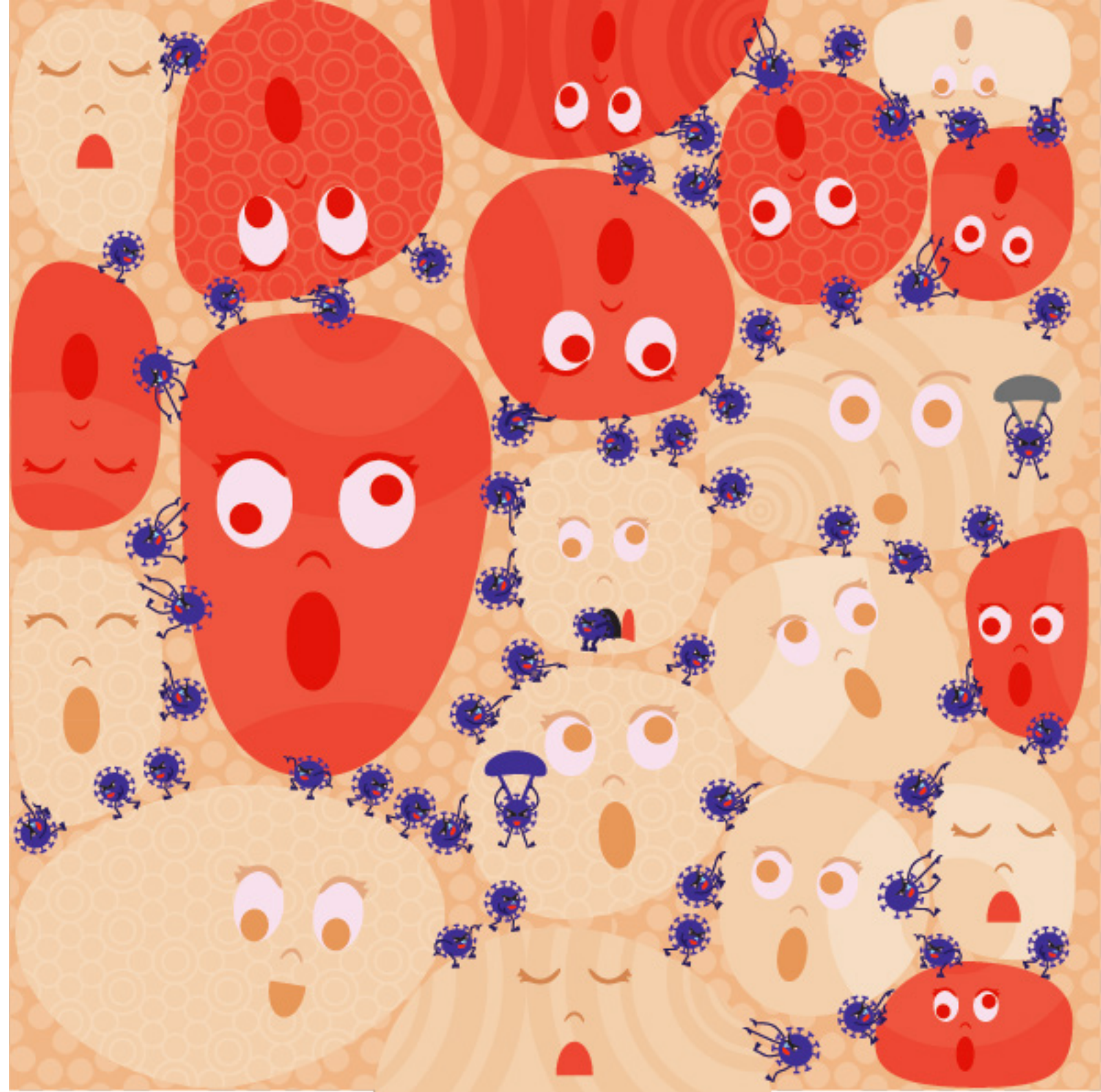
Game

Help Phagocyte and Lymphocyte cure Dad.

- 1) How many Coronaviruses have been copied?
- 2) How many cells have been infected?



Answer:
1) 57
2) 9



Protect yourself and others:

- 1) Wash your hands. Rub the entire surface of your hands well, making lots of soapy bubbles. Sing happy birthday slowly. Rinse your hands with water before drying them so that the water removes all the bubbles that contain the viruses.
- 2) If you need to cough, cough into your elbow. That way, everything that comes out of your mouth, gets stuck in your sweater. After coughing, wash your hands.
- 3) Do not touch your face. Viruses often enter through the mouth, nose or eyes.
- 4) Do not shake hands or kiss people. Respect social distancing. Wear a mask if social distancing cannot be respected.
- 5) If you feel sick, tell to your parent, caregiver or teacher.

We can stop Coronavirus by helping each other.



Glossary

• The cell

The cell is the unit of all known living things. The human body contains billions of cells.

• The target cell

The target cell is the cell infected with the virus. Each virus infects different cells. The COVID-19 coronavirus attacks cells in the lungs. This makes it difficult to breathe, and causes coughing.

• Coronavirus

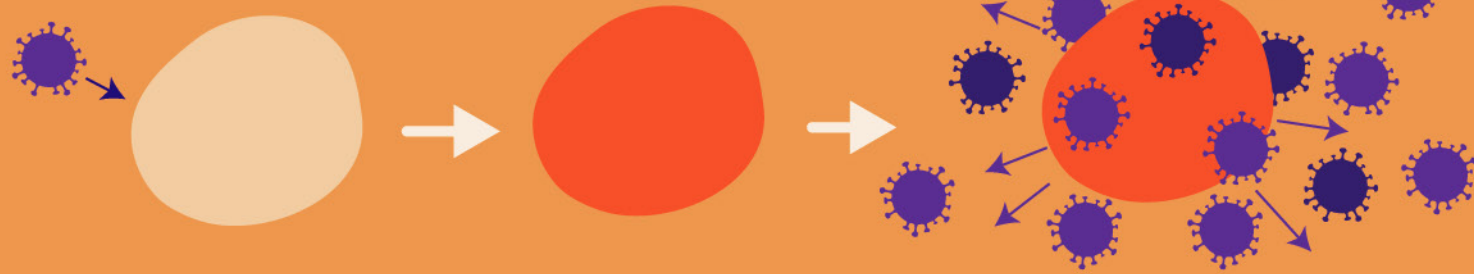
Viruses are so tiny that you can only see them with a microscope. Under the microscope, you can see that the Coronavirus has a crown and that is why it has the name Coronavirus.

• How does the virus get into cells?

The keys and locks in the story are special molecules called proteins. The virus needs proteins to enter the cell.

• How does a coronavirus make more coronavirus?

A coronavirus is not alive and cannot reproduce on its own. To multiply, the virus infects a cell. The infected cell makes more viruses.



• The immune system

The immune system is the army that protects the body against disease.



• Phagocyte

The phagocytes eat viruses, bacteria and other things that be dangerous for the human body.



• Hand wash

Washing your hands with soap will kill viruses and other germs.

• Lymphocyte B

B lymphocytes are the cells in the immune system's army. B lymphocytes cells make molecules called antibodies. Antibodies - the arrows in the story - block proteins to stop the virus entering the cell.

• Vaccine

It is an injection or a something you swallow (Polio vaccine is oral) to stop you getting sick. There are several types of vaccines.



• Currently in science

Researchers in the past have found vaccines to control diseases such as flu, smallpox, and polio, etc. Today scientists are looking for a vaccine against the coronavirus.

The creators of the “Esprits Curieux” collection thank:

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The collection “Esprits Curieux” invites the reader to discover current scientific knowledge.

Each album in the collection is written by a scientist.

The illustrations are inspired by scientific evidence.

**Coronavirus wants to conquer the world.
Fortunately, Phagocyte and Lymphocyte are
there to defend the body.**

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