

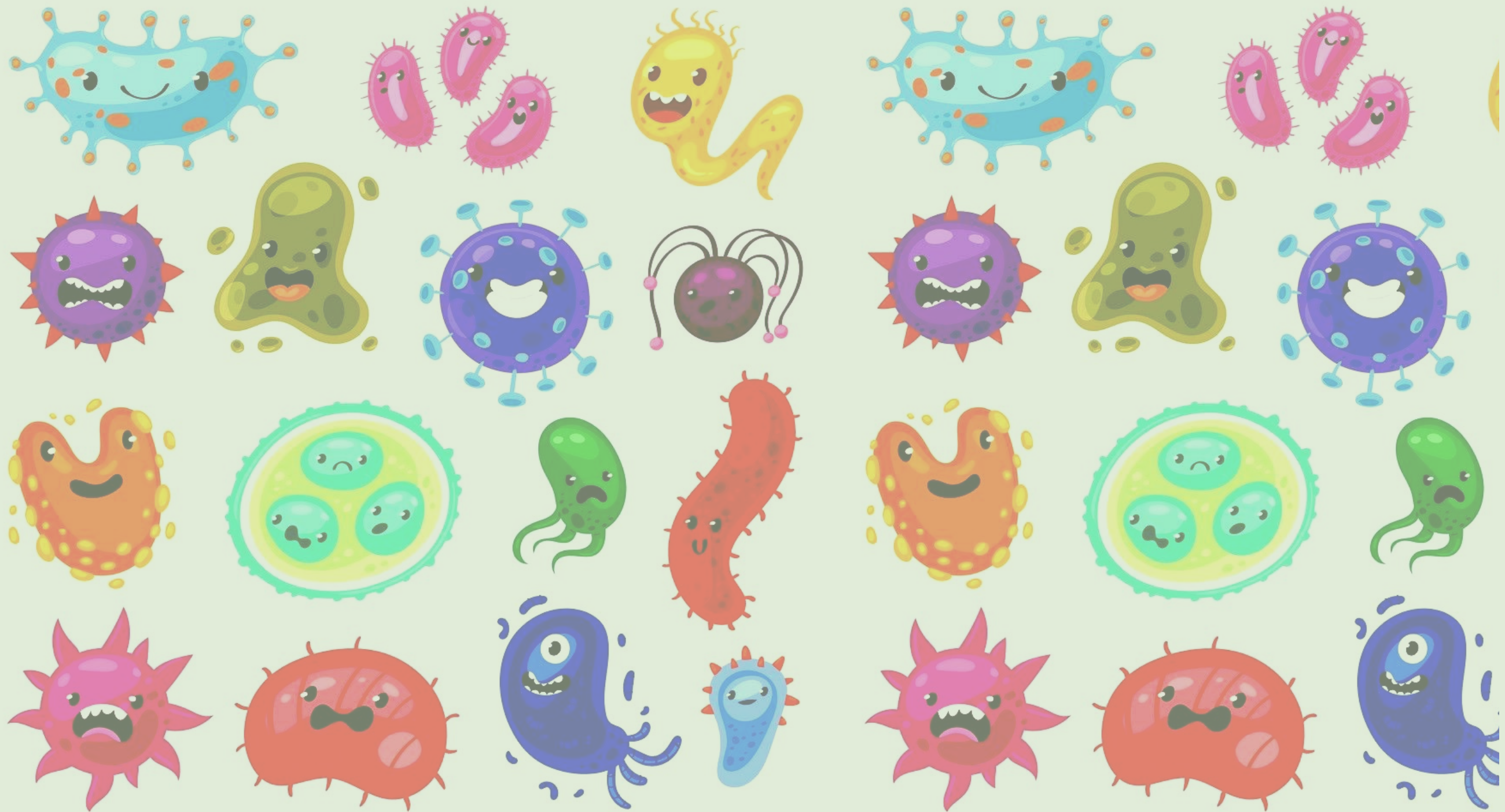


A colouring book to
engage and educate!



SPLASH!

iGEM IISER Berhampur



Colour your way through this book and you will become an expert of how diseases are caused. You will also be able to explore how we can cleverly use these threats to help us rather than making us sick!

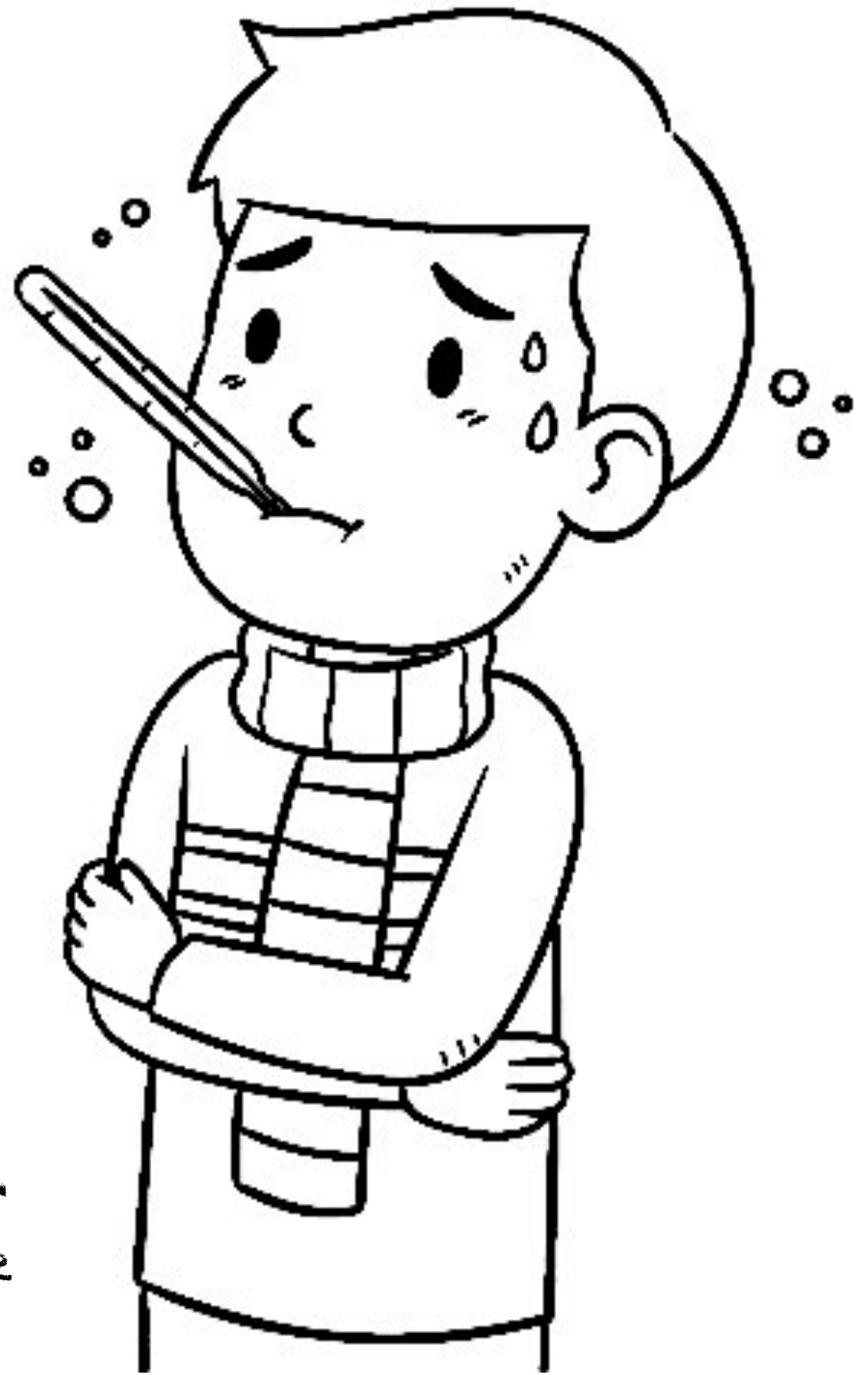
Let's get started...

AAH-AAH-CHOOOOO!

Have you ever had a cough or a cold or chills?

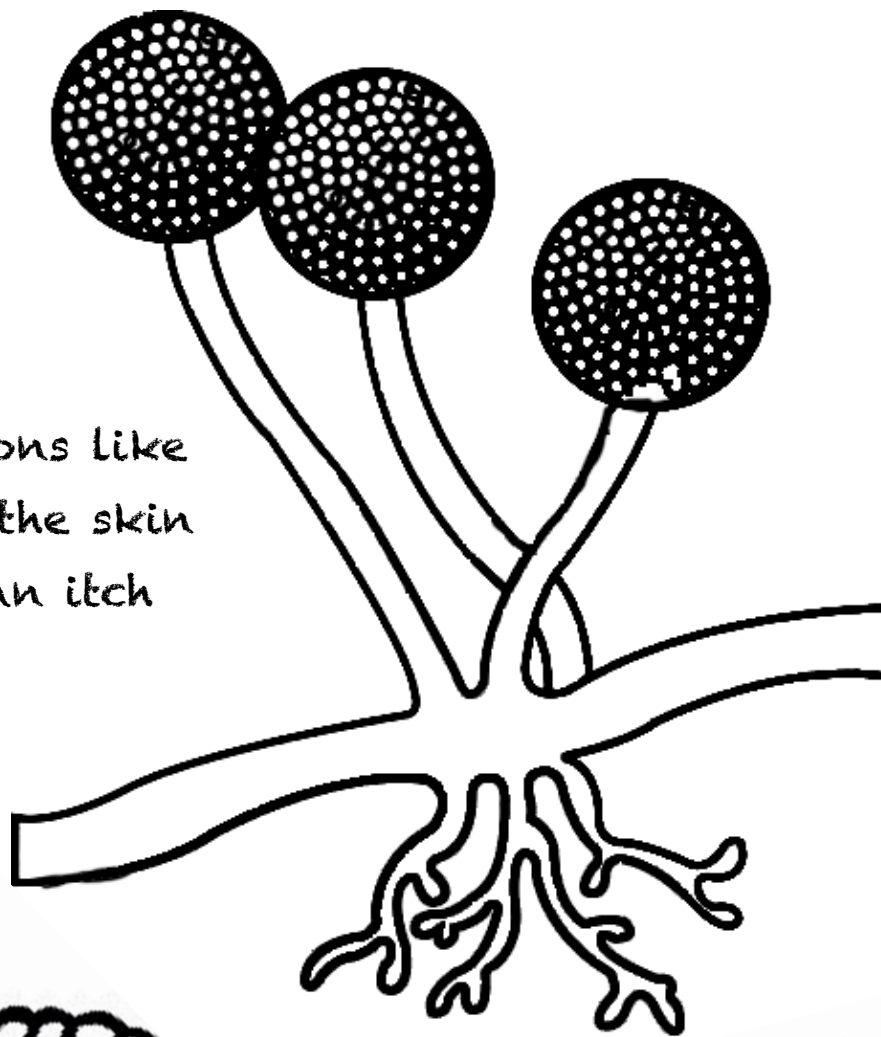
Do you know why we fall sick?

Tiny organisms called pathogens can cause illnesses by attacking our body. These are so small that we cannot see them, but they are all around us....



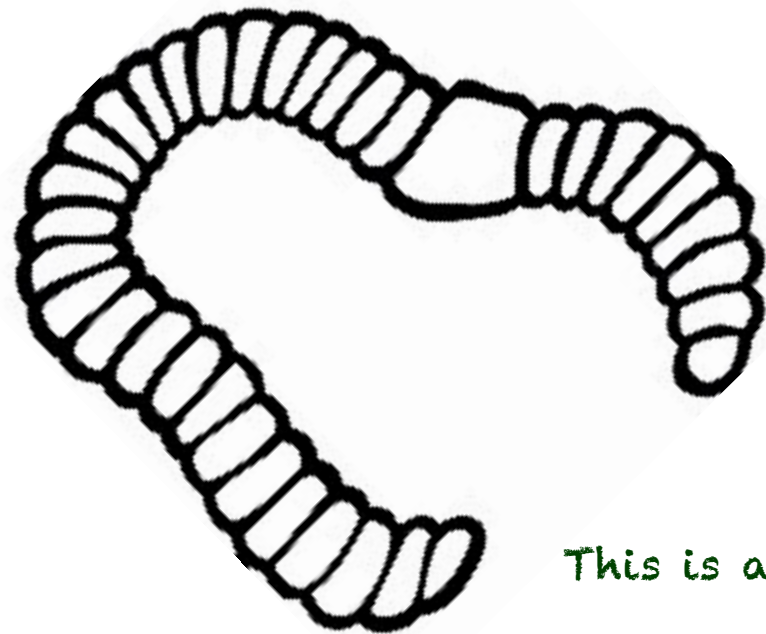
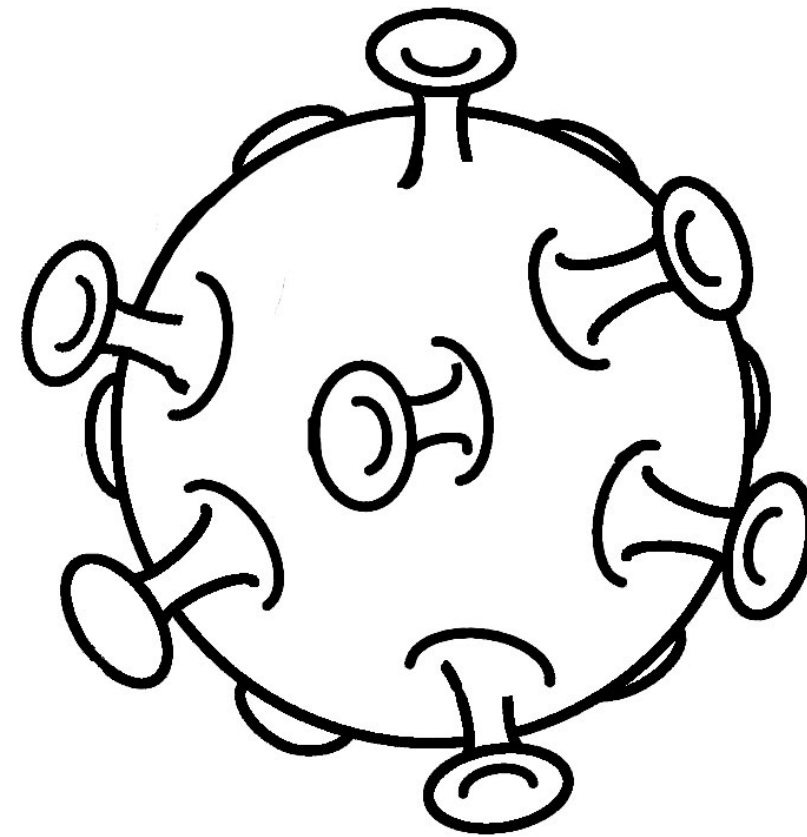
This is a Fungus.

It can cause infections like athlete's foot, where the skin between your toes can itch and pain!



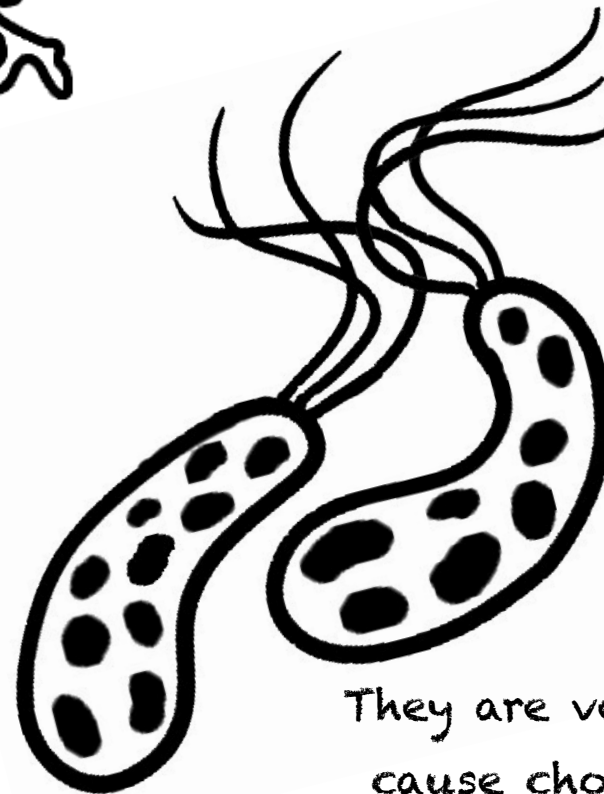
This is a Virus.

It can cause some deadly diseases like rabies and smallpox and even common cold!



This is a worm.

It is a type of parasite, which depends on humans for surviving, and can cause diseases in the stomach, blood or intestines!

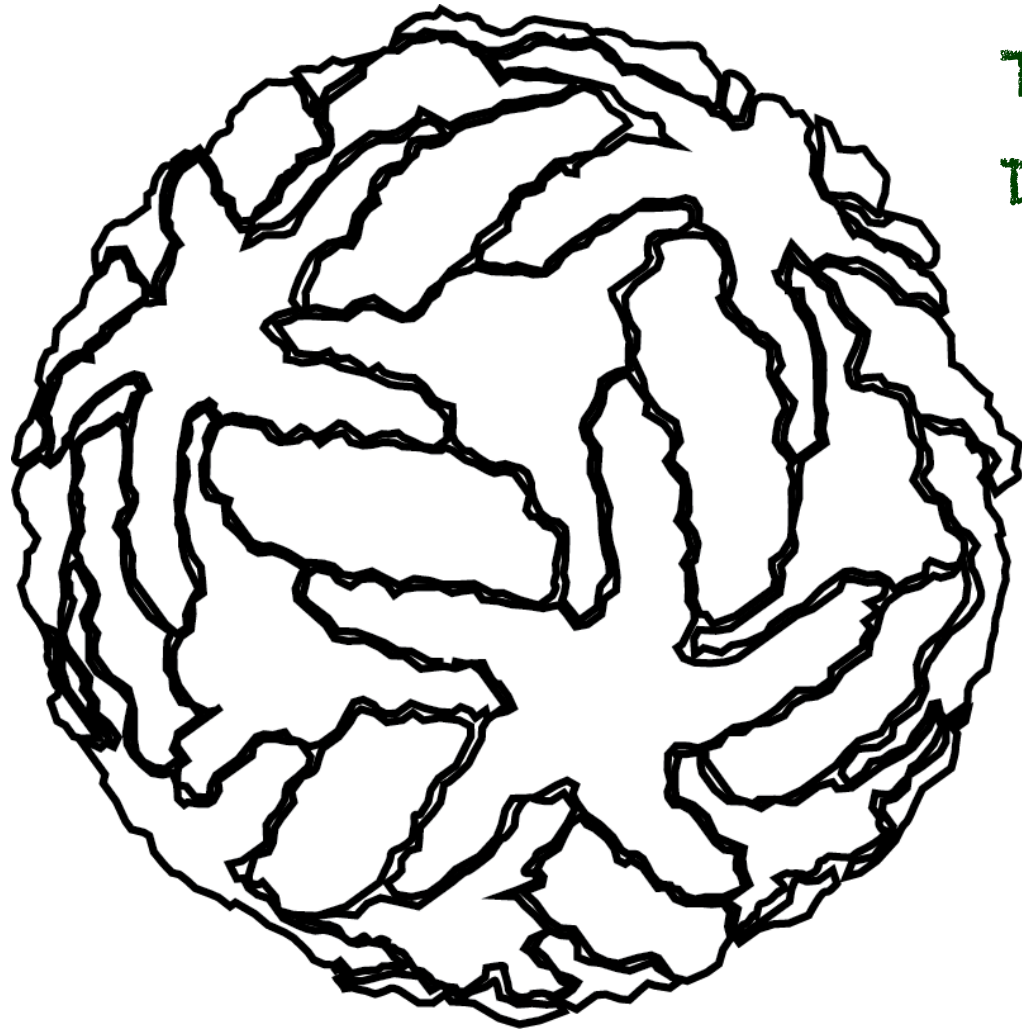


These are Bacteria.

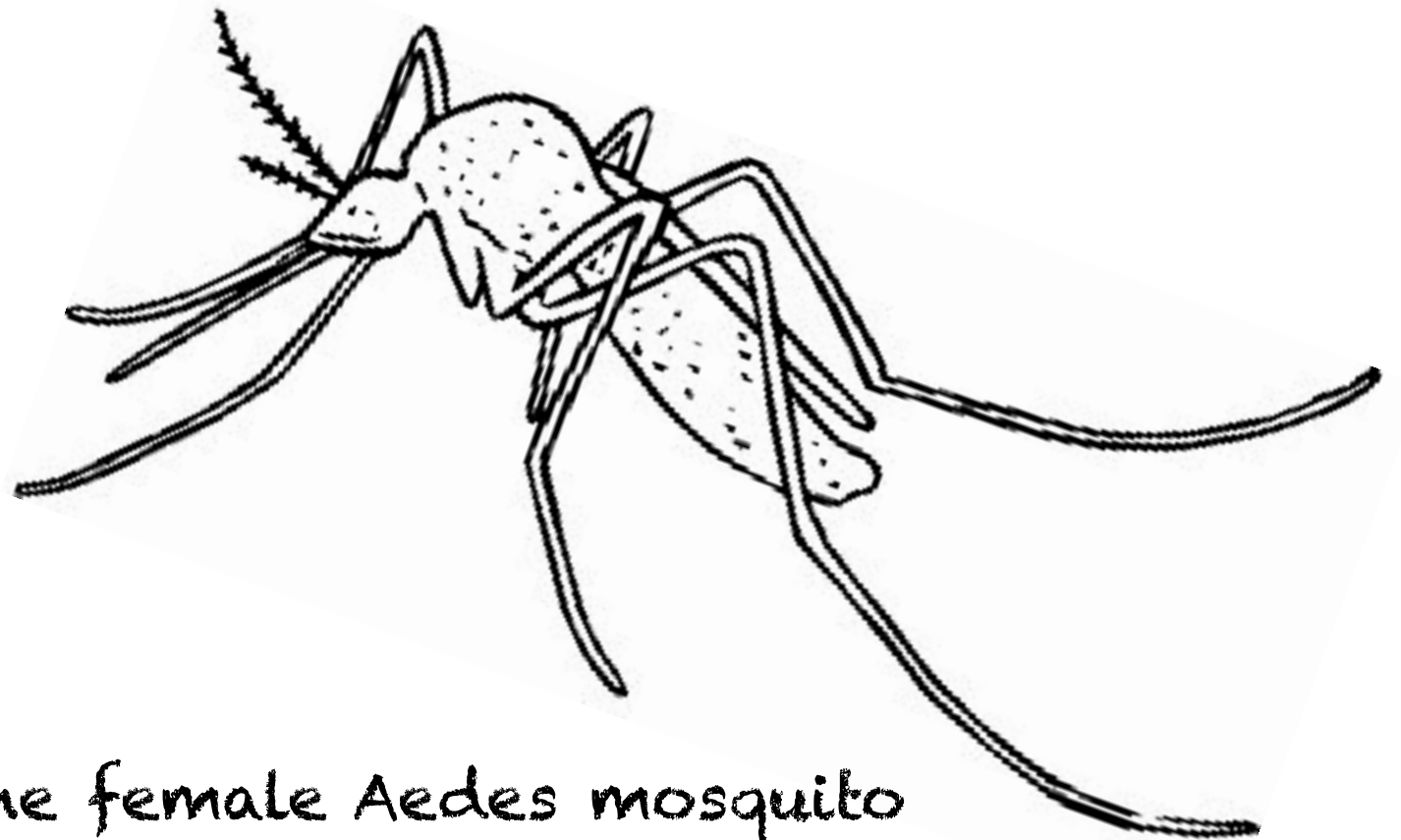
They are very abundant and can cause cholera, tuberculosis and many other diseases!

Meet the Culprits!

Let's take a closer look at...Viruses!



This is the virus that causes the Dengue disease.



It is carried by the female Aedes mosquito which spreads the virus to healthy people when it bites them to suck blood.

Dengue can make you
really sick!



Body ache



Rashes



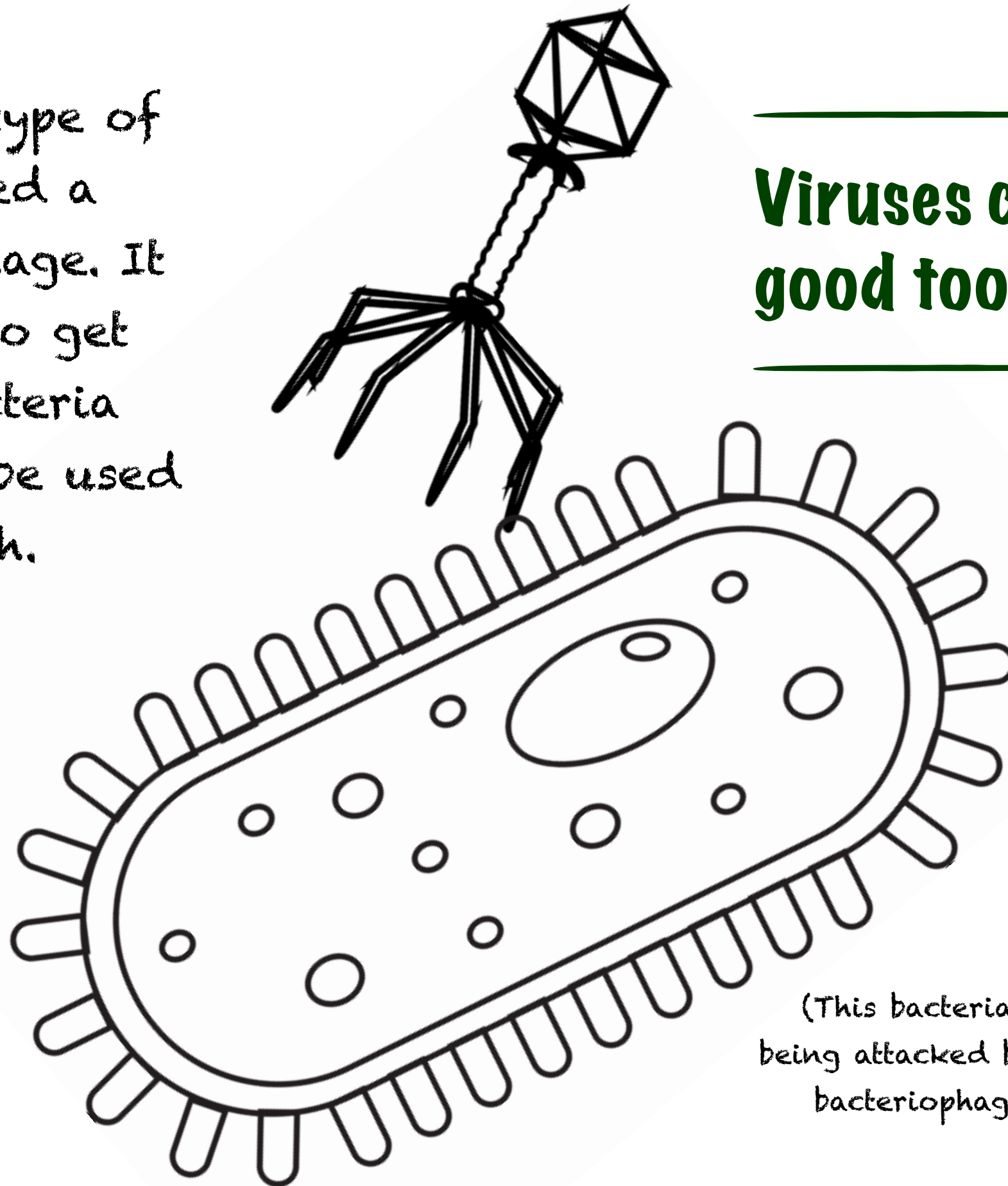
Fever...



...and chills.

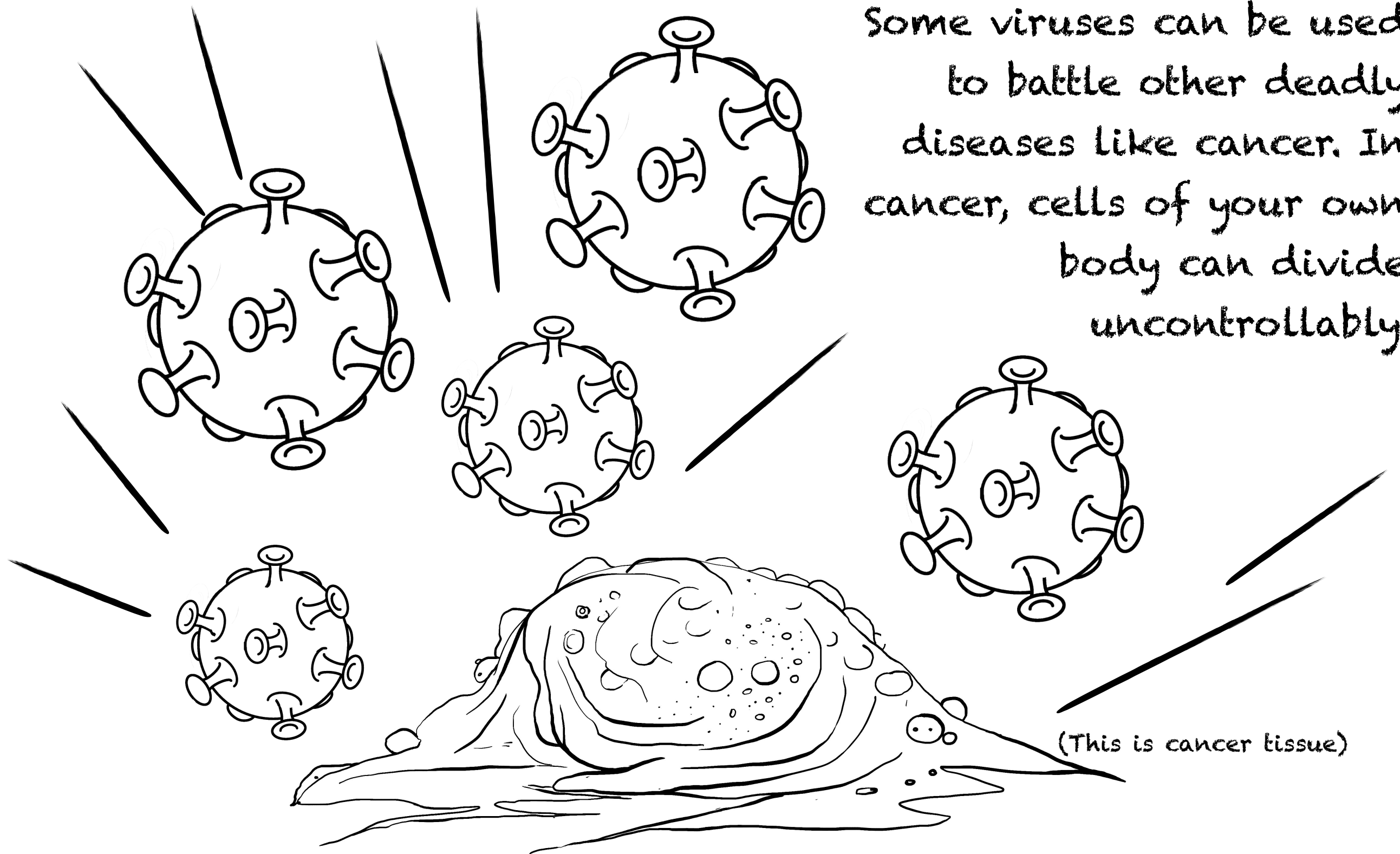
This is a type of virus called a bacteriophage. It can help to get rid of bacteria and also be used in research.

Viruses can be good too!



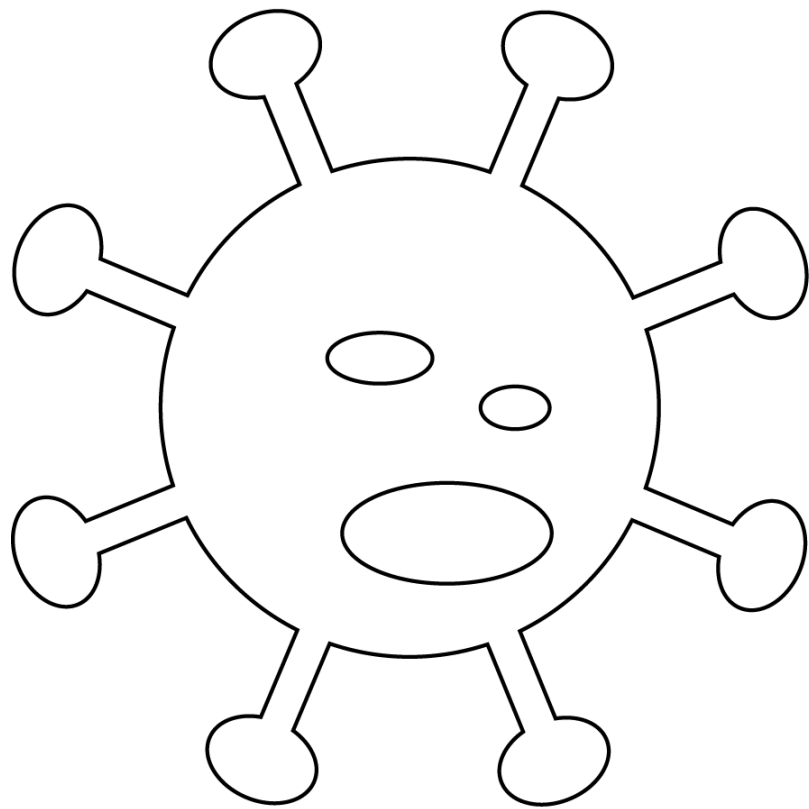
(This bacteria is being attacked by the bacteriophage)

Some viruses can be used to battle other deadly diseases like cancer. In cancer, cells of your own body can divide uncontrollably.

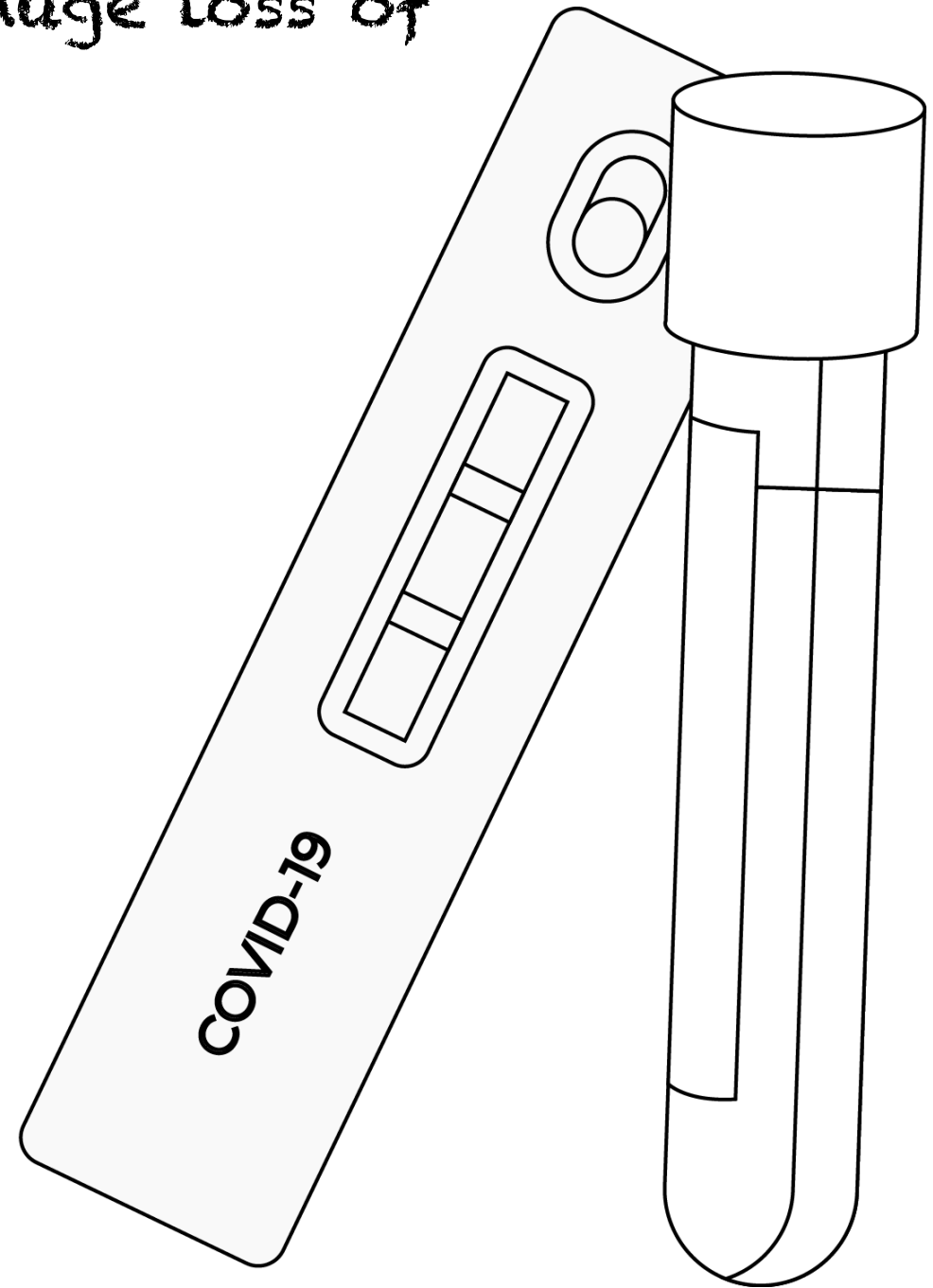


These good viruses are made by scientists to help your body activate your defence system against the cancer cells!

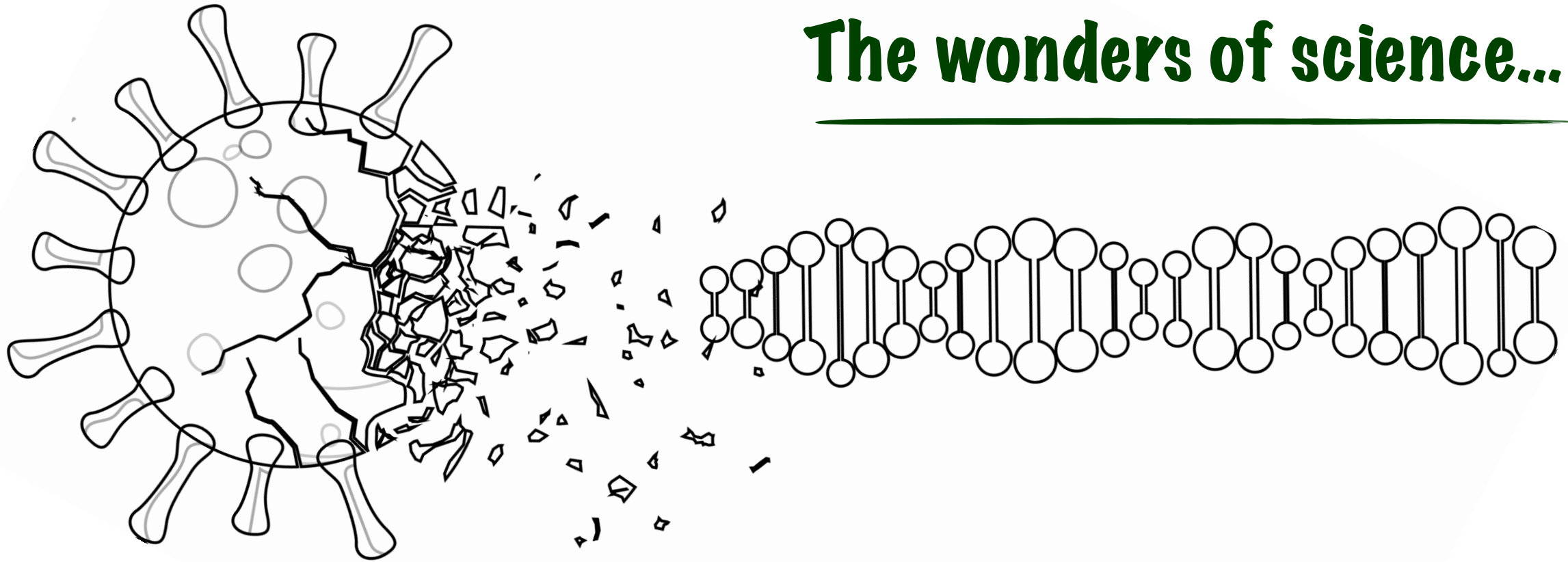
Unfortunately, there are still some viruses that we don't know how to beat. They can cause a huge loss of human lives...



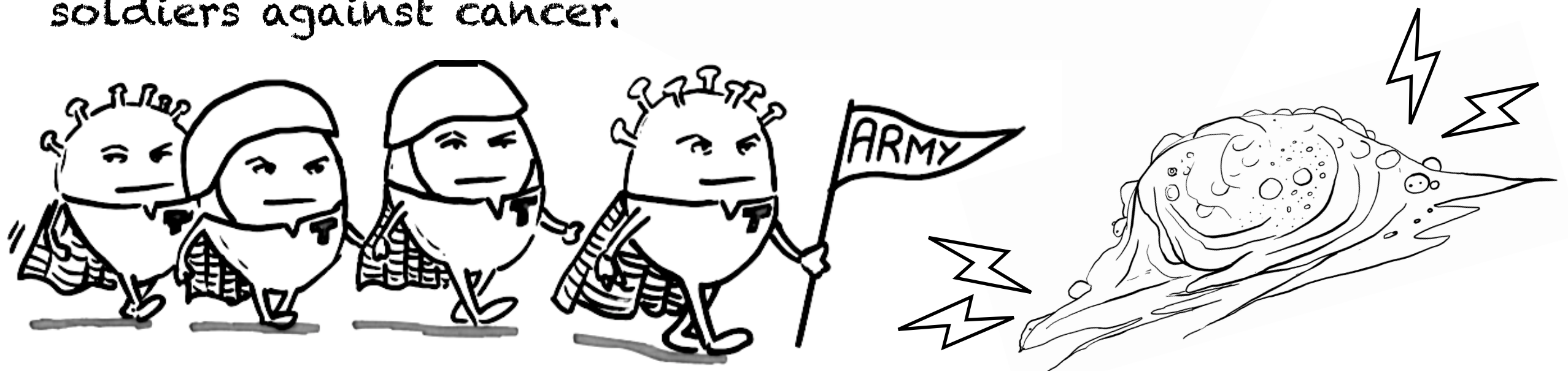
The SARS-CoV-2 has created a global pandemic.



The wonders of science...

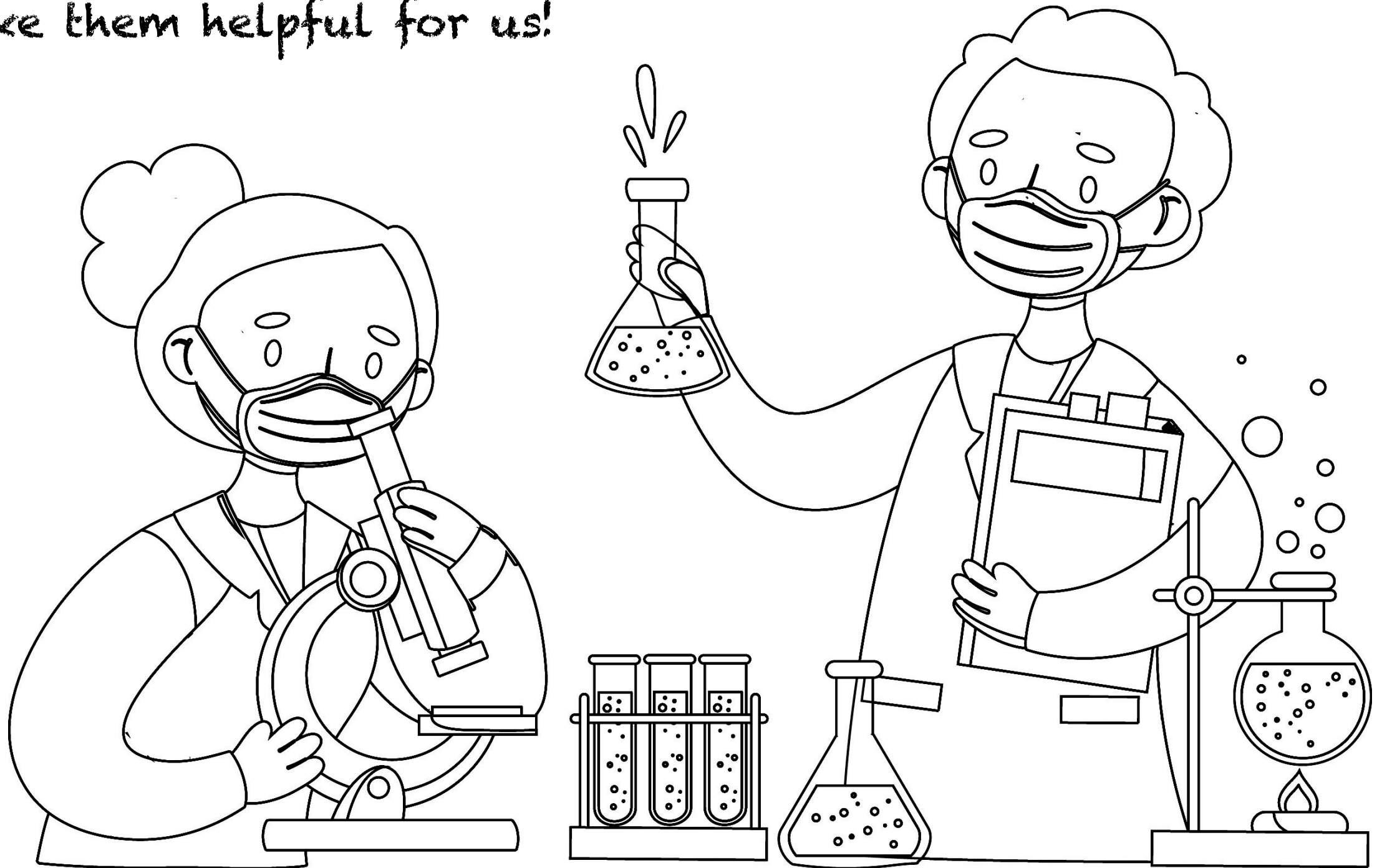


Researchers can tweak viruses in their labs and make them useful...such as turning them into the good viruses that act as soldiers against cancer.



Pathogens are everywhere...

But now you know...that we can try to stop them, and also learn from them...or even make them helpful for us!



Follow us:    

Write to us: igem2020@iiserbpr.ac.in

Send us the pictures of the pages you coloured, along with a photo of you colouring them at the above email. It would be great if you could include any questions you have or what you liked most about this colouring book!



This colouring book is an initiative by the iGEM team (International Genetically Engineered Machine, a worldwide synthetic biology competition) of the Indian Institute of Science Education and Research, Berhampur, to give children a way to learn about science while having a bit of fun. The team is currently working on developing a new tool to aid researchers in designing drugs against Dengue and other infectious diseases.

Illustrations : Vinayak Siv
Design : Sukanya Chakraborty



Postal Address:
IISER Berhampur
Transit campus (Govt. ITI Building)
Engg. School Junction, Berhampur
Odisha 760010