

# INFECTION FIGHTERS

HOW TO KEEP VIRUSES AWAY



Dr Maitreyi  
Shivkumar

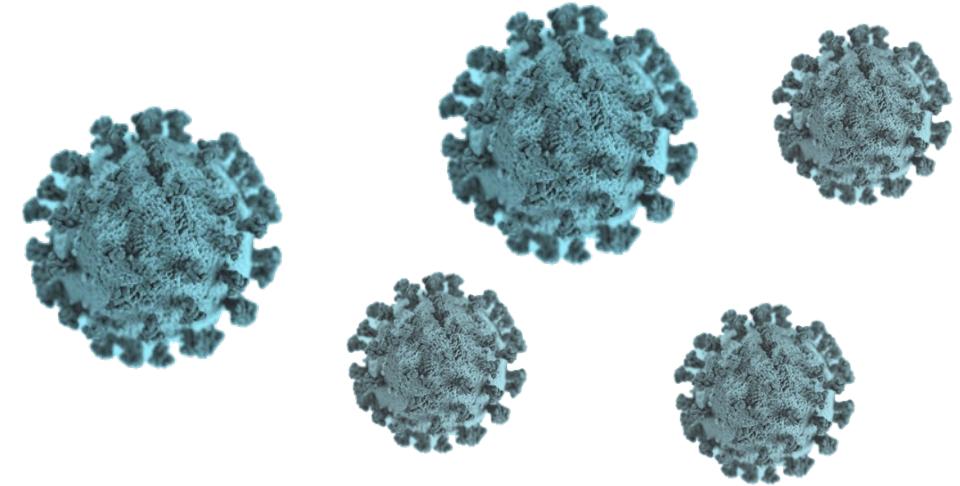
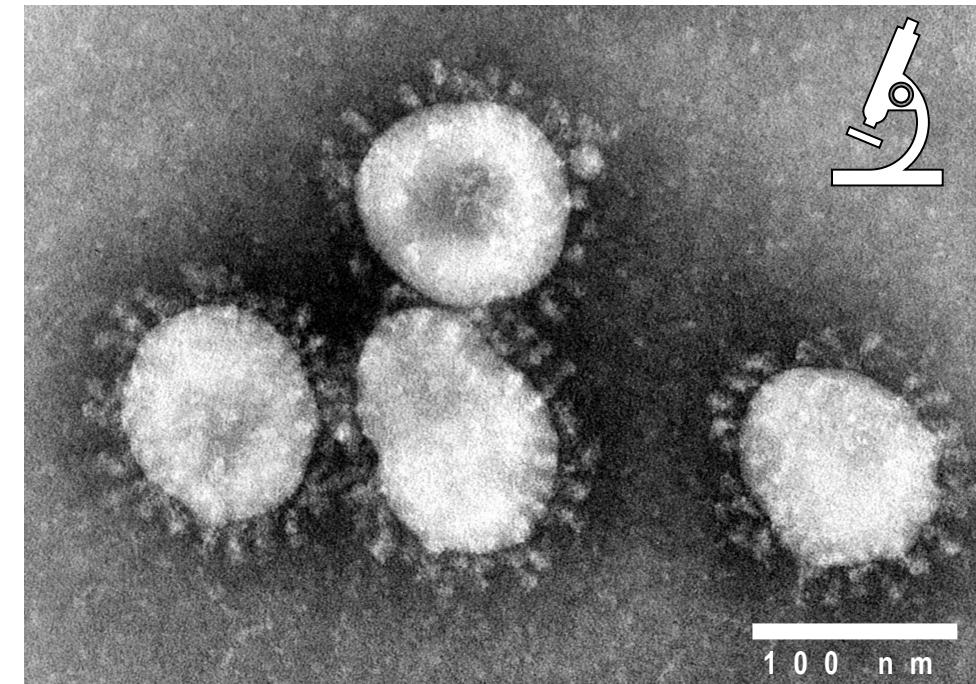


Gemma  
Cooper



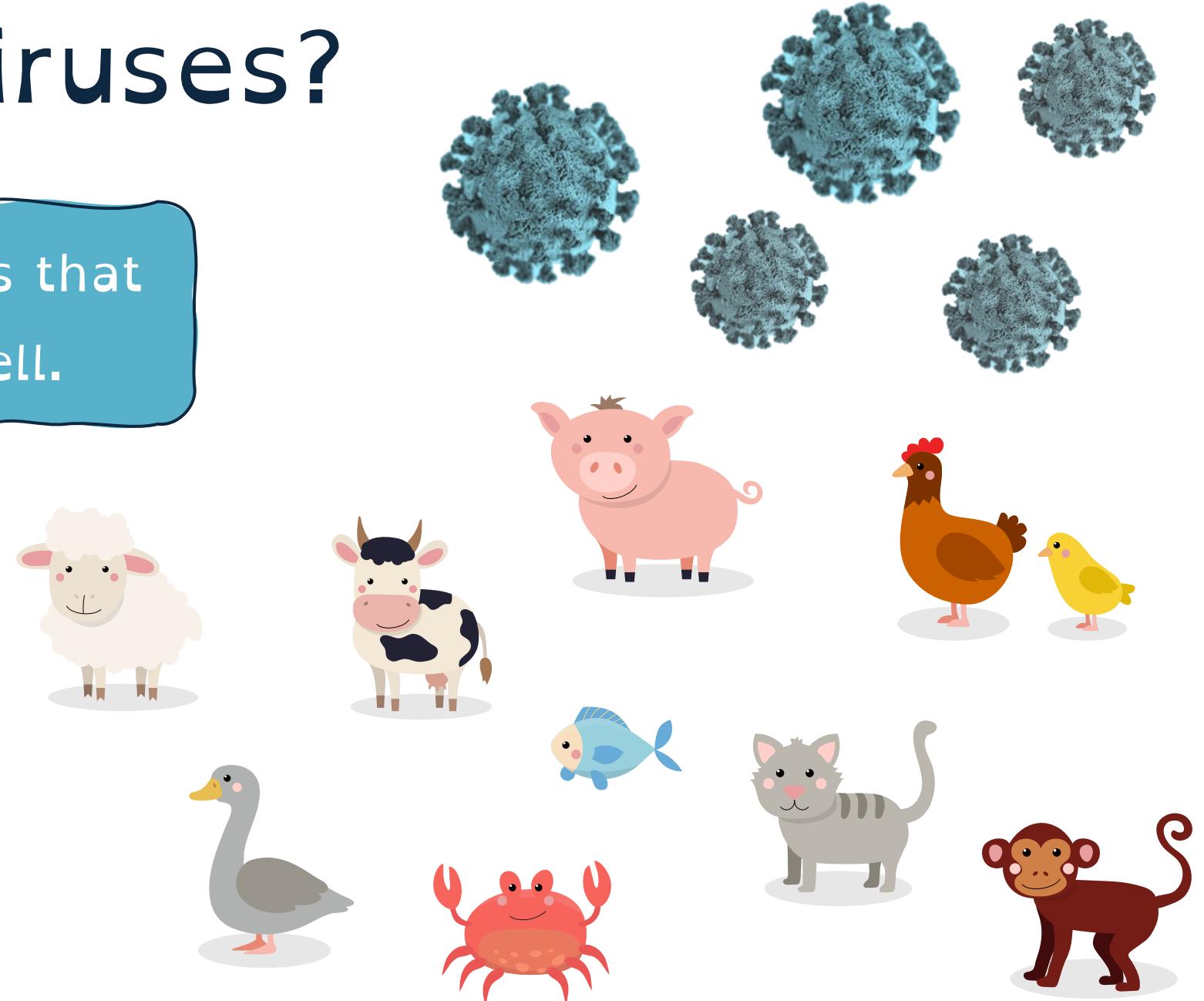
# What are viruses?

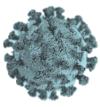
Viruses are tiny germs that can make us feel unwell.



# What are viruses?

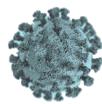
Viruses are tiny germs that can make us feel unwell.





# How many virus particles?





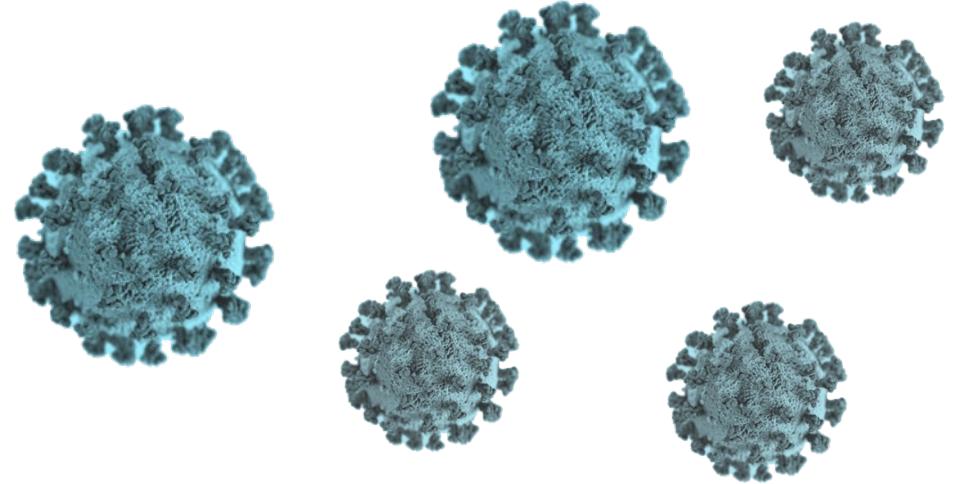
# How many virus particles?



$10^{31}$

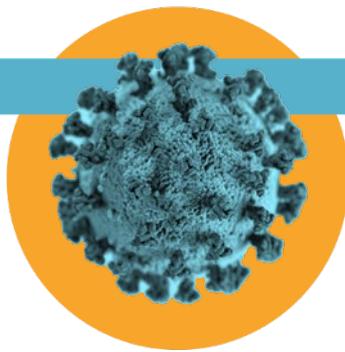
But not all of these make us ill!

We work on viruses that cause colds and respiratory illnesses



How do they spread?

How can we stop them?



# ESCAPE LAB

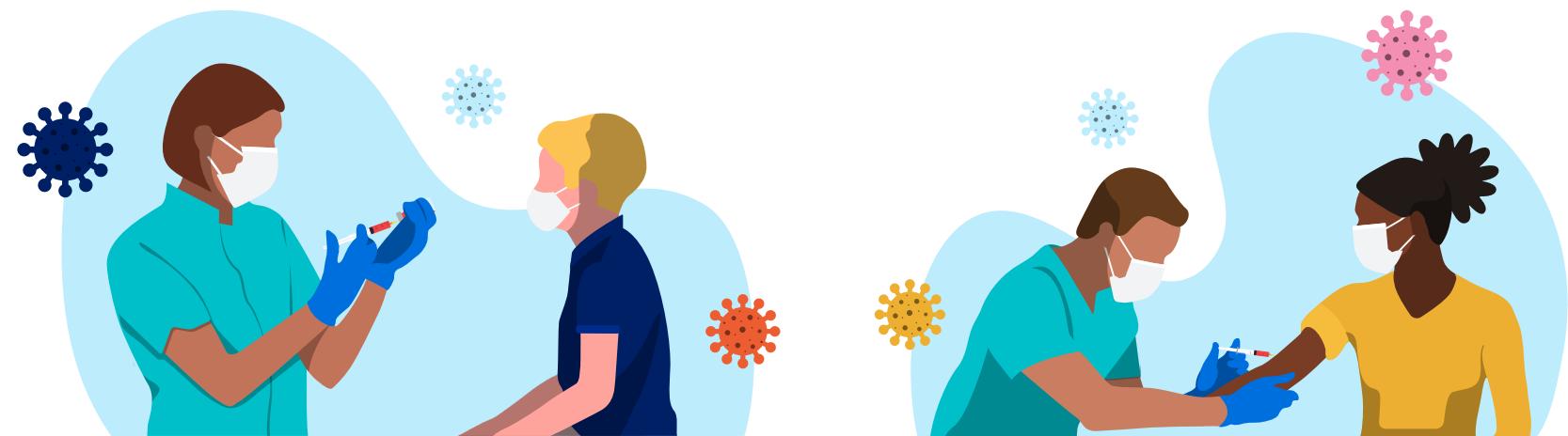
## A JOURNEY INTO DRUG DISCOVERY

Next session: 3:00 pm

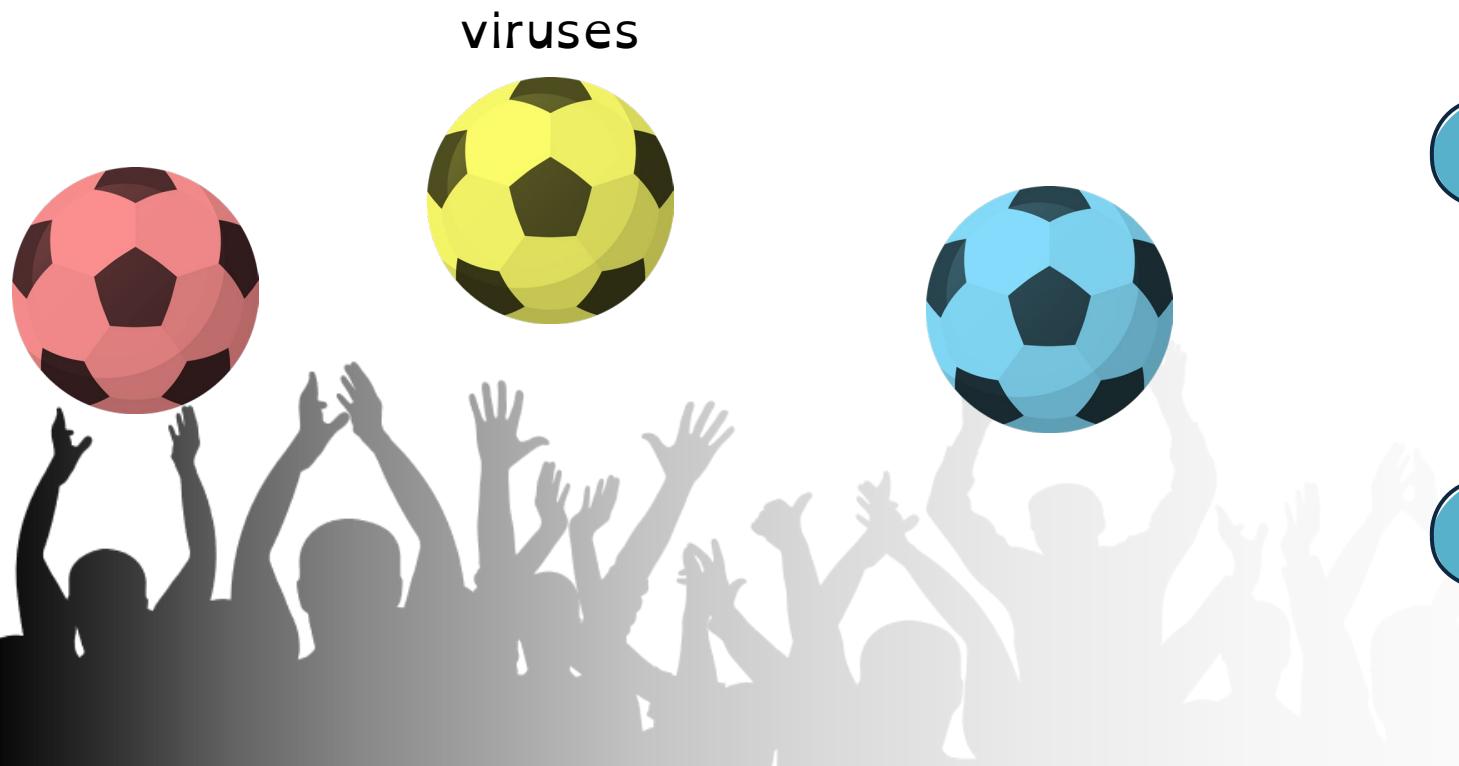
Another way we can stop  
viruses is by vaccines.

# What are vaccines?

Vaccines help our body learn how to recognise the virus, and fight it!



# Let's see if they work!



- 1 If a virus touches you, you become infected.
- 2 Stand up, and throw the virus anywhere – you're spreading the virus!
- 3 How many infected after 30 seconds?

30 seconds

**STOP!**

# This time...

Some of you  
are vaccinated!

1

If a virus touches you,  
you become infected.

If you are vaccinated,  
stay seated and don't  
throw the virus!

2

Stand up, and throw the  
virus anywhere – you're  
spreading the virus!

3

How many infected after  
30 seconds?

30 seconds

**STOP!**

# Get vaccinated!

Vaccines protect us from getting ill and help us stop the spread of viruses.



Thank you!

Find us here: [shivkumarlab.co.uk](http://shivkumarlab.co.uk)

Twitter/X: @Lambananas

Bluesky: @shivkumarlab.bsky.social

