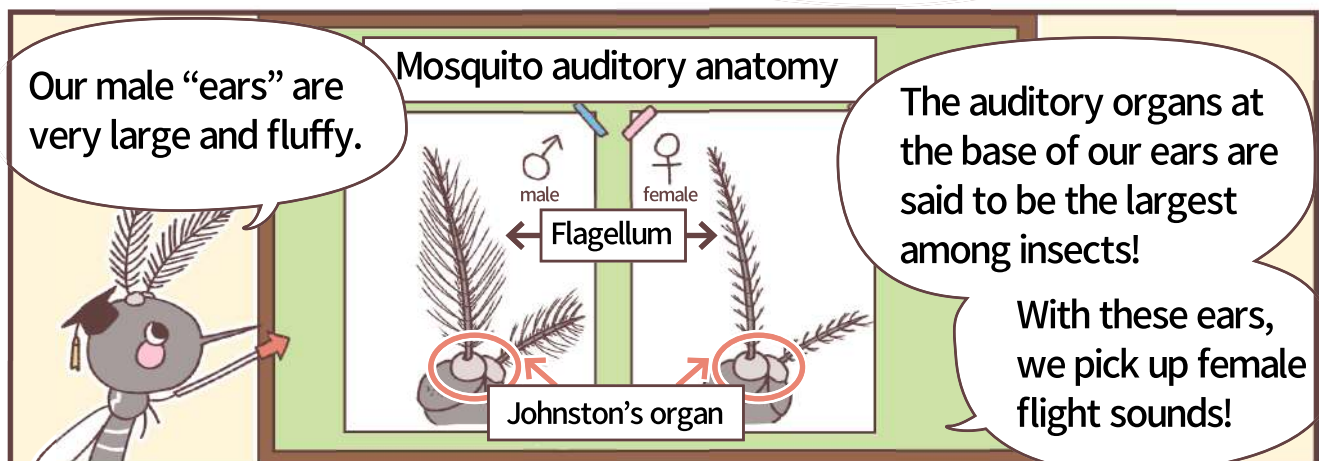
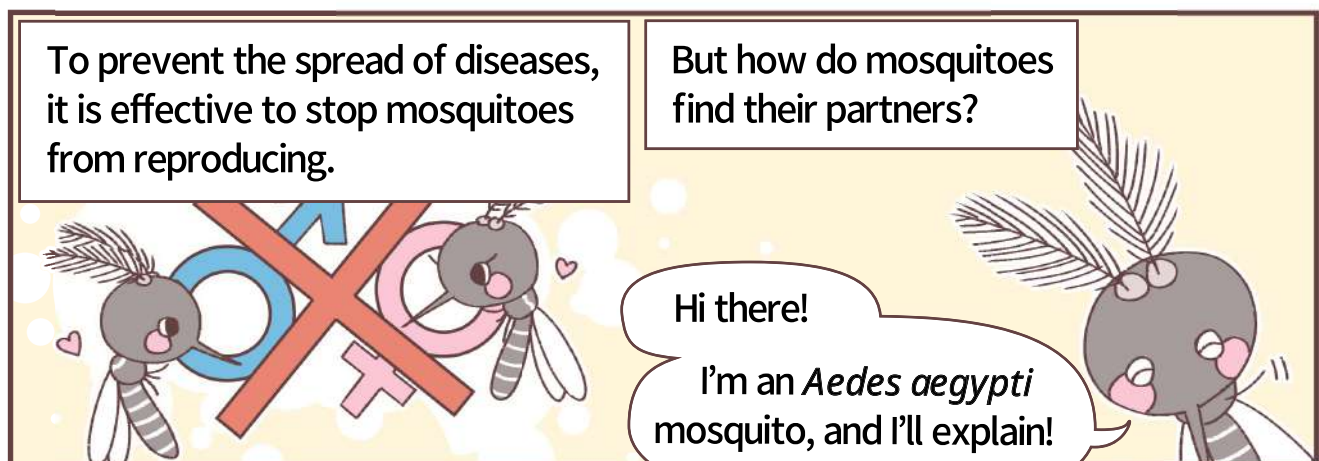
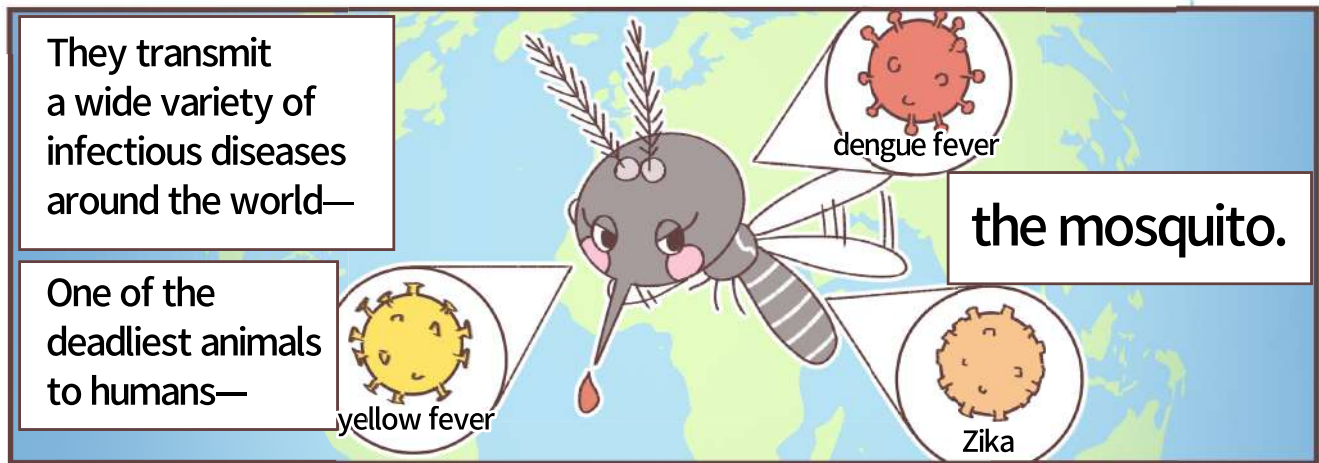




When the sex-differentiating gene *fruitless* is mutated 1

Hello!
I'm a male mosquito,
and I'll be living here
from today!

Nice to meet you!

We've been getting
a lot of new friends
lately.

Hey, cutie! Want to go
on a date with me?

Buzzzz

!?

He flew away...
Maybe something
urgent came up?

You didn't hear that
female sound?
That's unusual.

...?
Did I do
something strange?

Characteristic 1
of *fruitless* ♂

• Not attracted to
female flight
sounds

When the sex-differentiating gene *fruitless* is mutated 2

So anyway, that guy's been really popular lately...

Wow, I'm so jealous.

Buzzzz

Uh-huh

It's time to swarm...

Uoooooh!
Form a swarm!

!?

Ladies,
I'm right here!

What is everyone doing...?

Waaaah!

Mosquito swarm

Characteristic 2 of
fruitless ♂

•Do not form
swarms

fruitless...

By mutating mosquito sex-differentiating genes, researchers have found that it may be possible to control mosquito reproduction.

fruitless

This technology may help reduce the number of people infected with mosquito-borne diseases!

That's bad news for us!