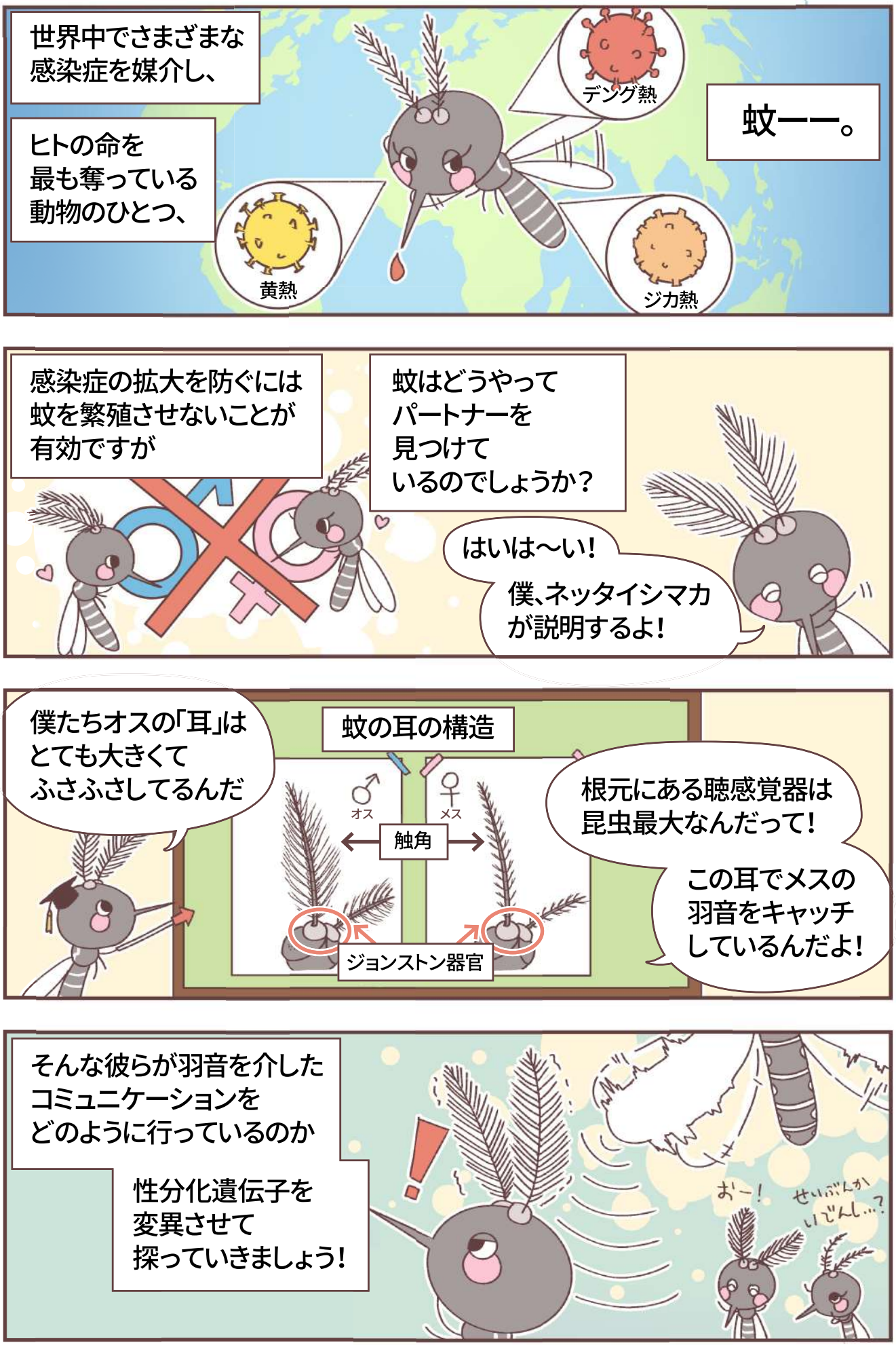
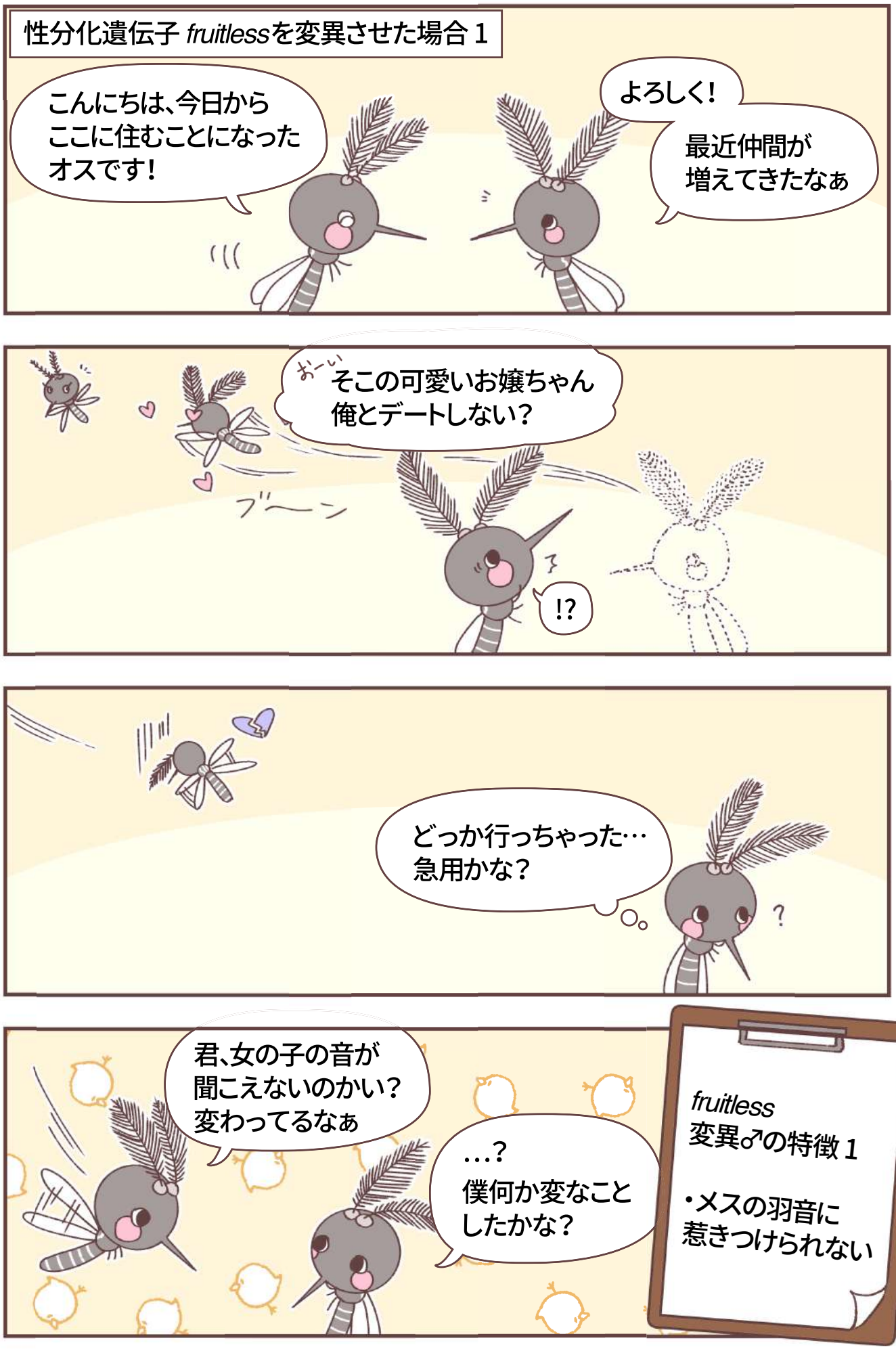


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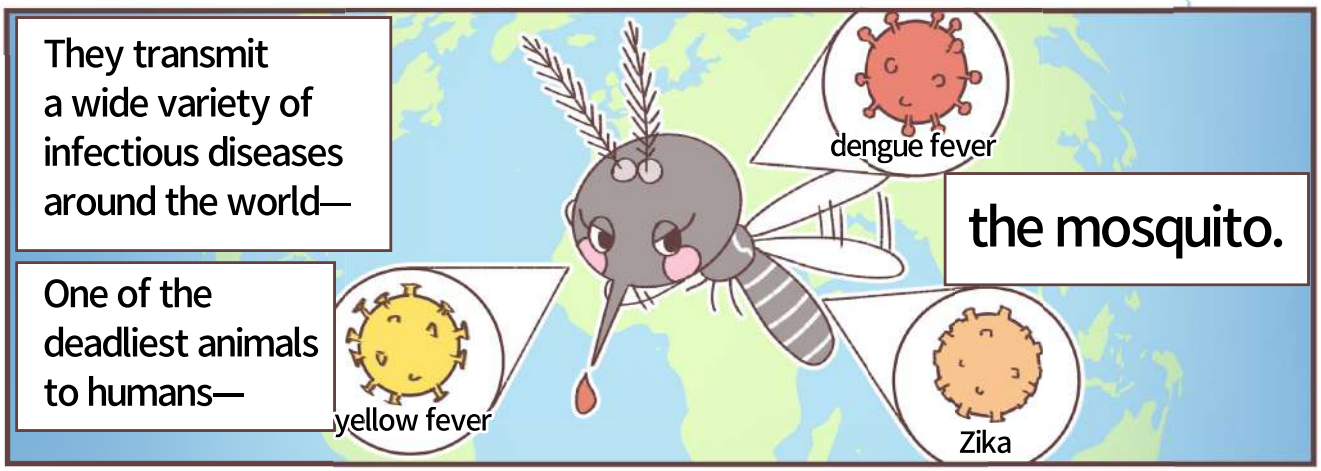
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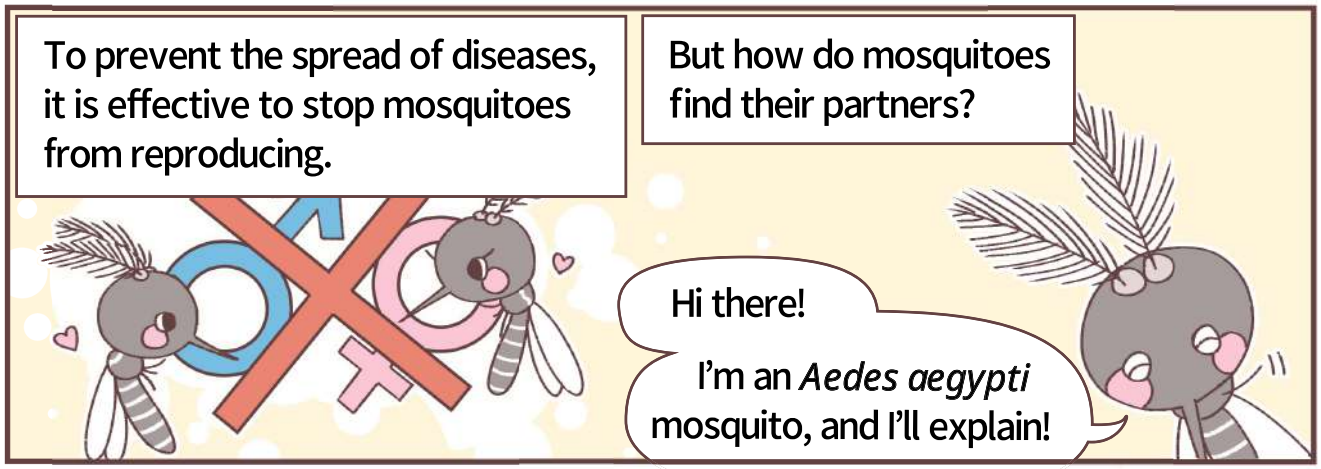
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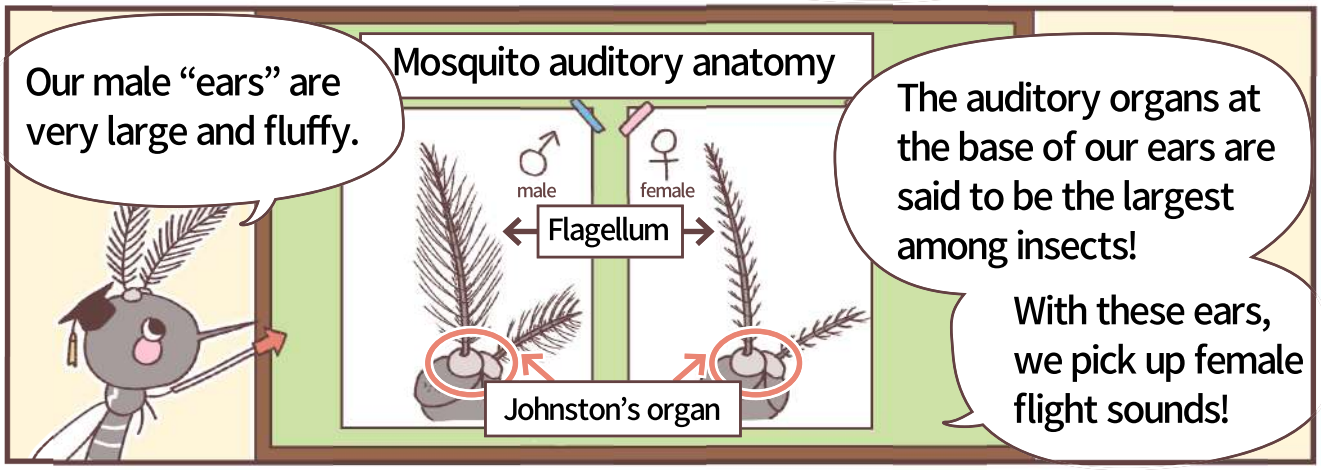


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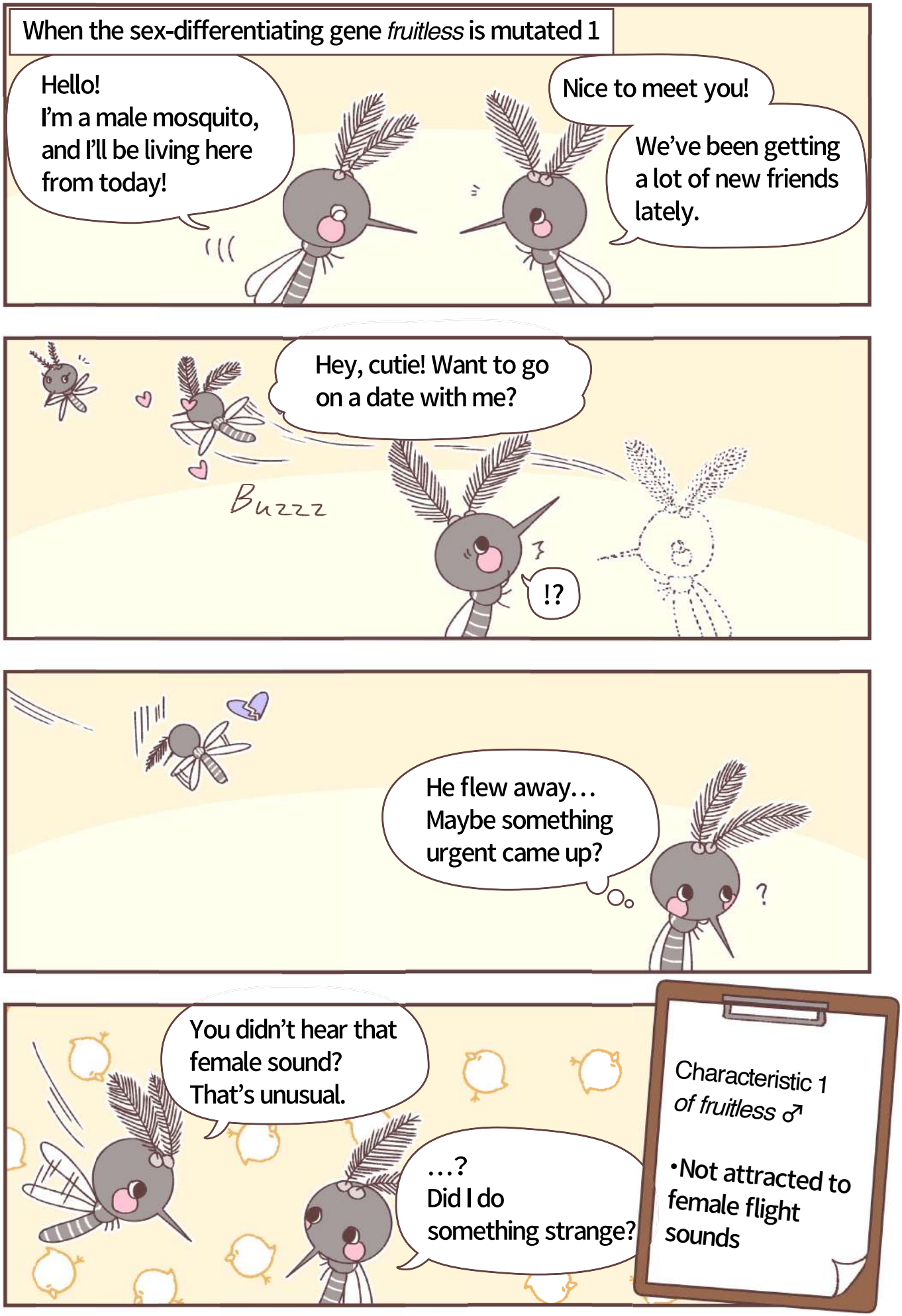






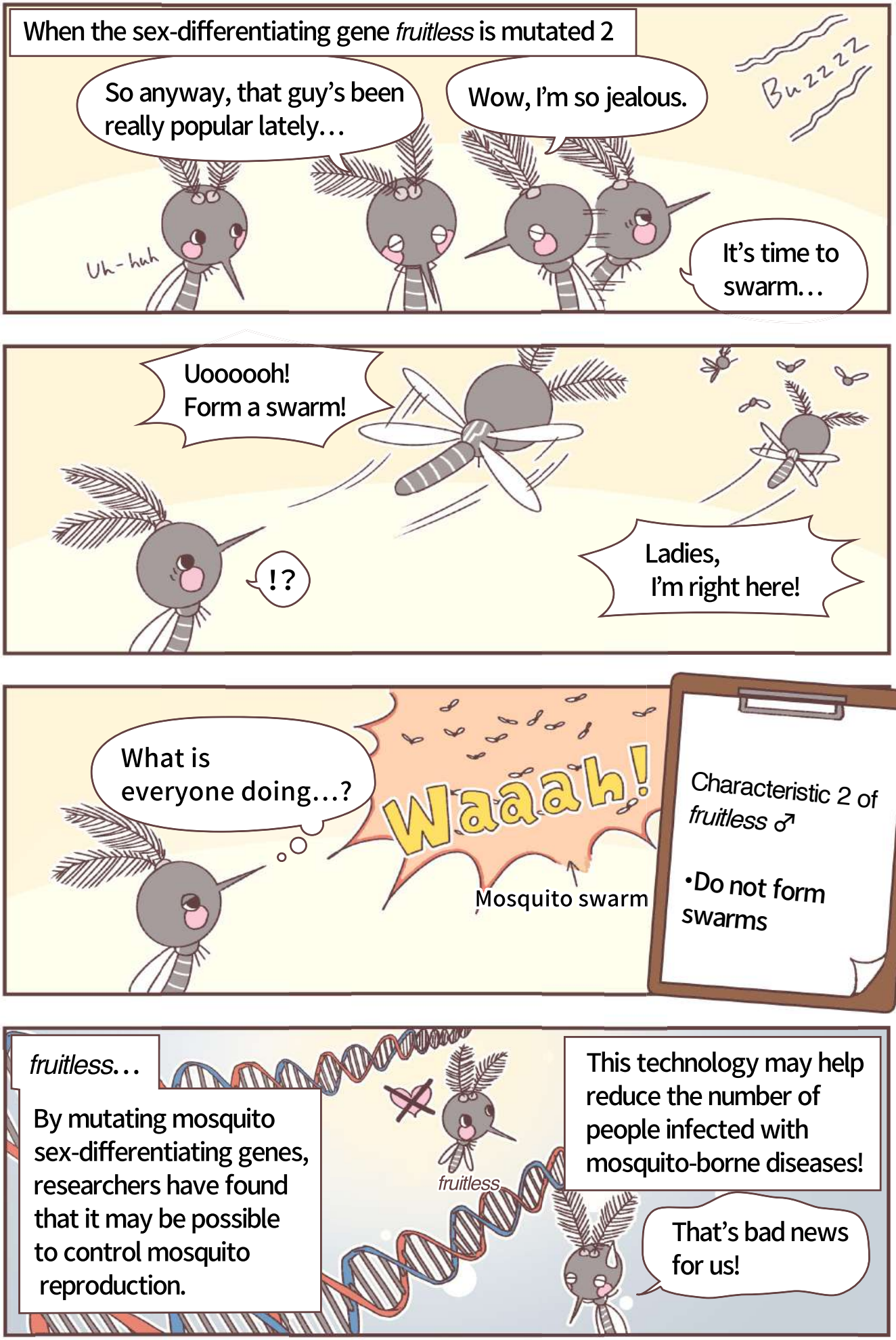
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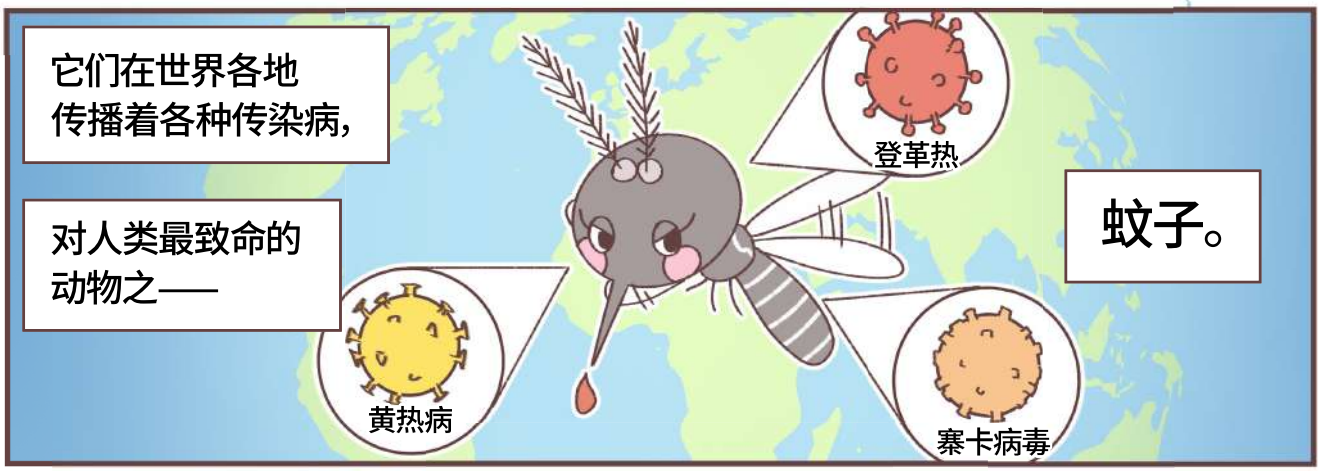
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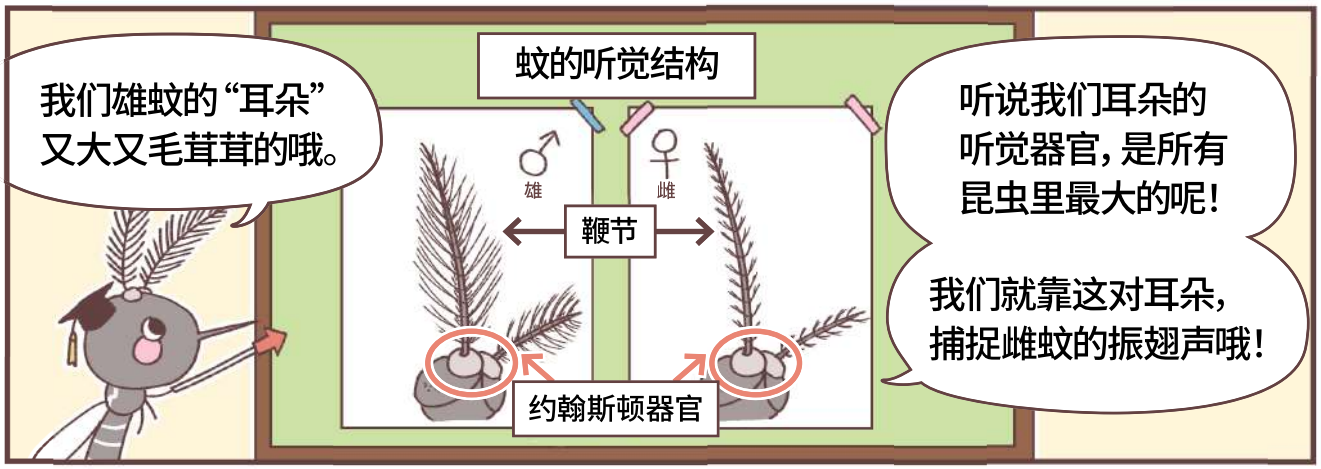


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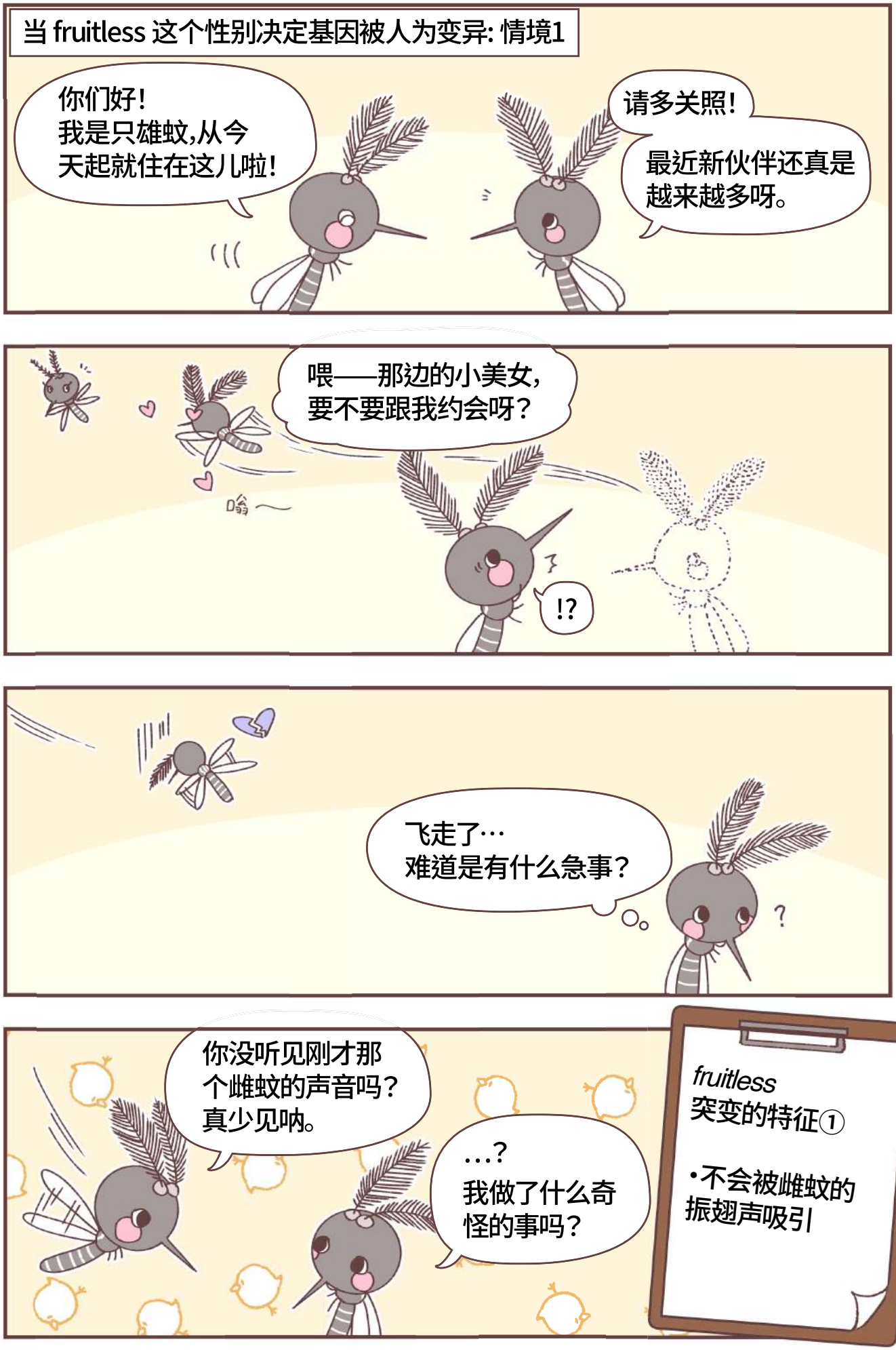






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牠們在世界各地傳播各種各樣的蚊媒傳染病

牠們是最致命的人類殺手——

蚊子

登革熱

黃熱病

茲卡病毒感染症

阻止蚊子繁衍能夠有效阻止疾病傳播

但蚊子在繁衍時是如何定位彼此呢？

嗨，大家！

我是*埃及斑蚊*，我來為大家講解！

我們族群中的公蚊擁有體積大且毛茸茸觸角的「耳朵」

蚊子的聽覺系統解剖圖

♂ 雄

♀ 雌

觸角

江氏器*

我們的耳朵基部的江氏器被認為是昆蟲界中體積最大的聽覺器官！

我們就是藉由這靈敏的耳朵來定位雌蚊的！

* 功能類似人類的內耳，把外界刺激轉化為聽覺神經訊號的器官

那他們是怎麼透過飛行時翅膀振動的聲音來溝通呢？

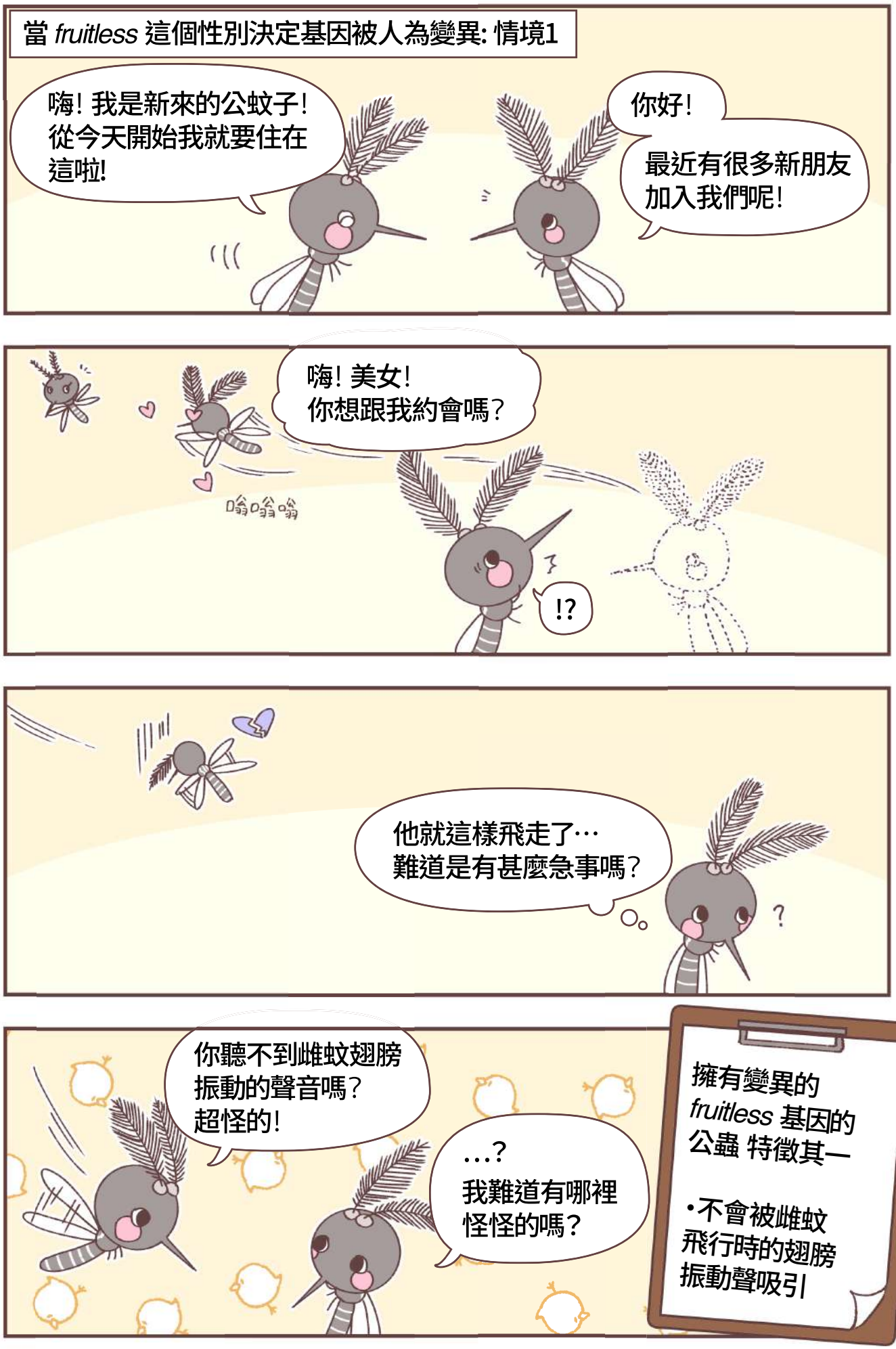
透過變異性別決定基因就可以讓大家一探究竟啦！

耶！

性別決定基因…？

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Penular macam-macam penyakit di berbagai penjuru dunia

Salah satu hewan paling mematikan bagi manusia—

demam berdarah

sang nyamuk

demam kuning

virus Zika

Dengan mencegah nyamuk berkembang biak, kita juga bisa mencegah penyebaran penyakit lho!

Tapi, bagaimana cara nyamuk berkembang biak?

Halo!

Aku nyamuk *Aedes aegypti*, hadir untuk menjelaskan!

"Telinga" nyamuk jantan sangat besar dan berambut halus

Anatomi pendengaran nyamuk

♂ laki-laki

♀ perempuan

flagelum

organ Johnston

Telinga nyamuk adalah yang terbesar di dunia serangga

Dengan telinga ini, kami bisa mendengar bunyi kepakan sayap nyamuk betina!

Bagaimana nyamuk bisa berkomunikasi dengan bunyi kepakan sayap?

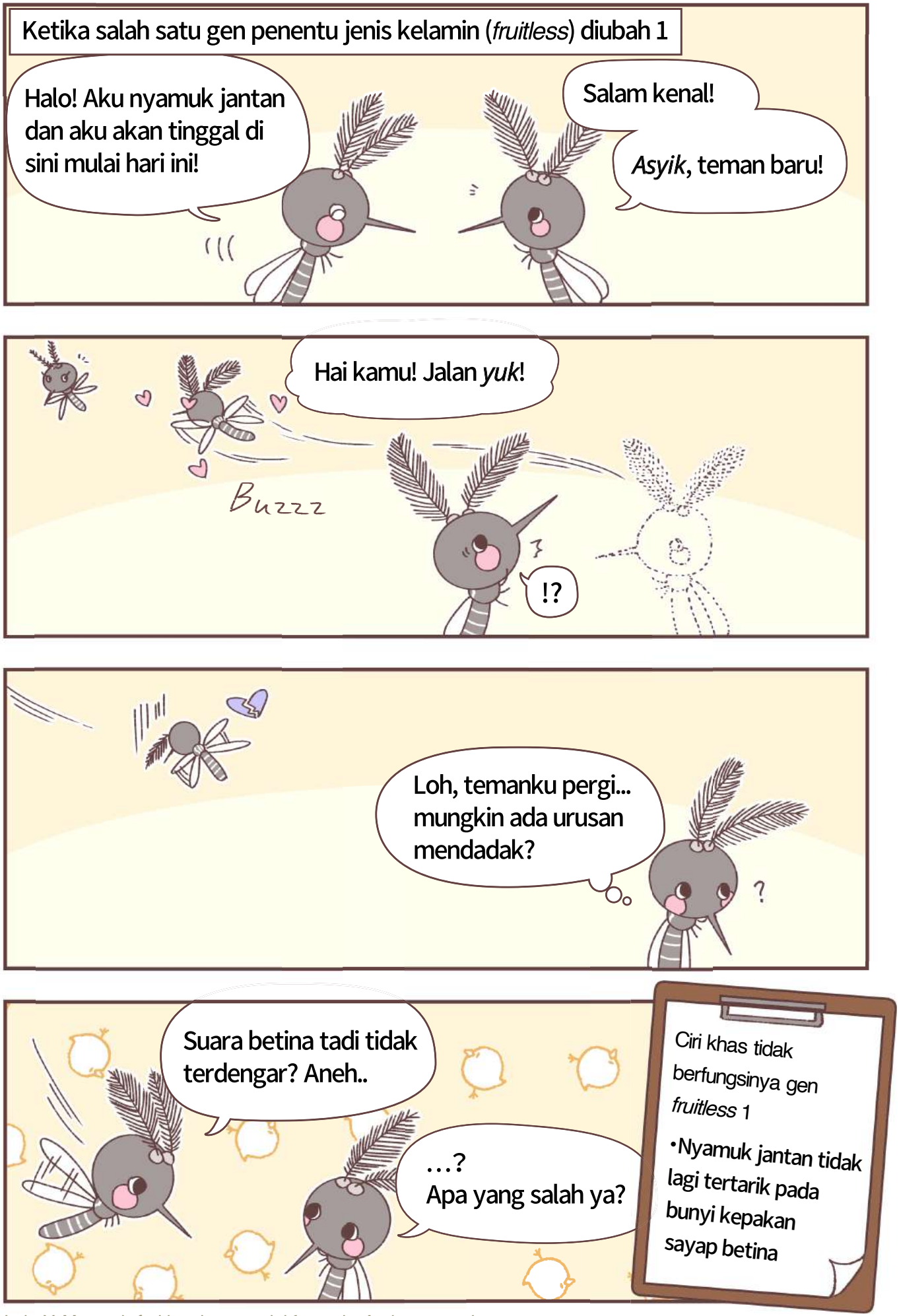
Mari kita ubah gen penentu jenis kelamin nyamuk dan pelajari!

Yeah!

Gen penentu jenis kelamin...?

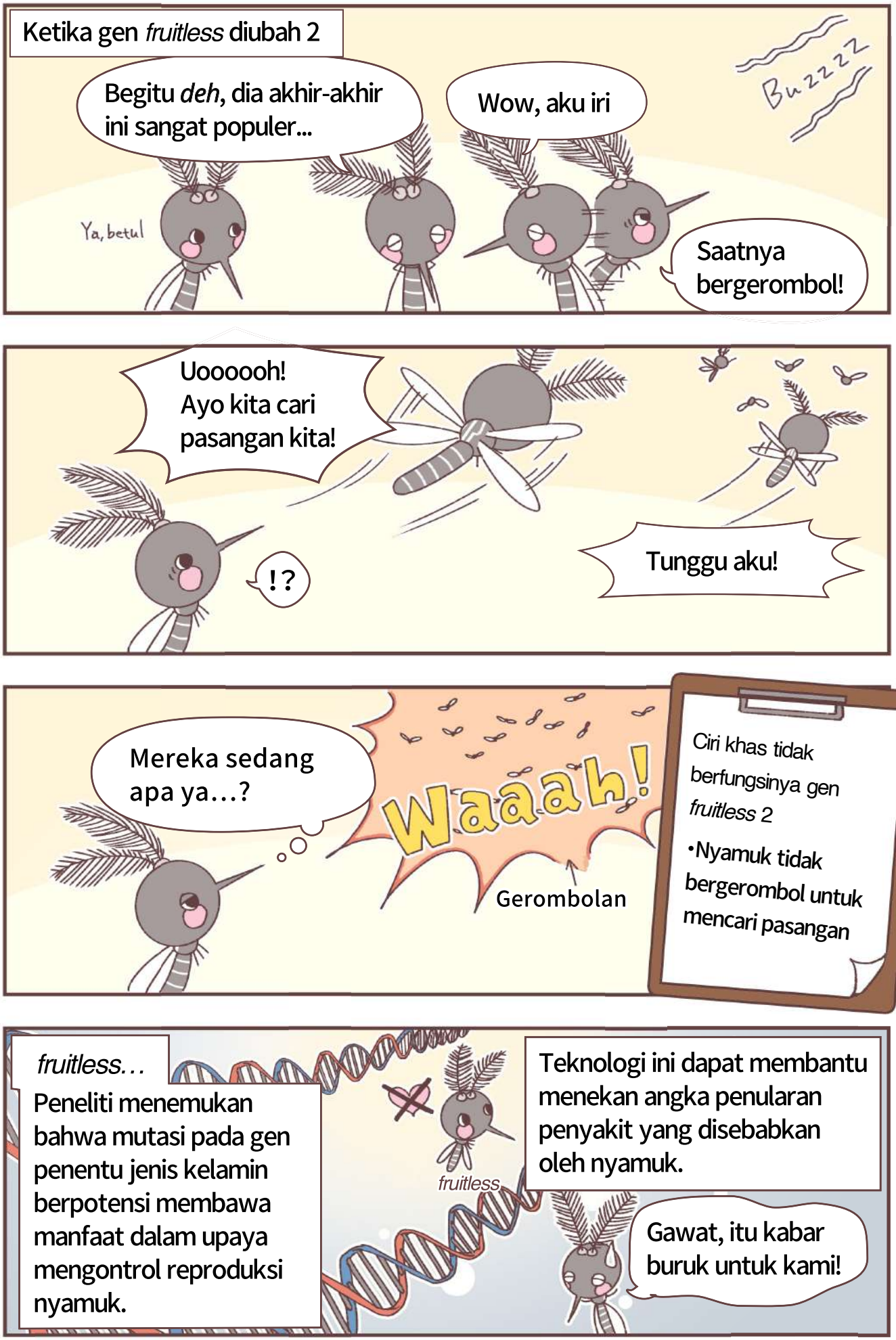
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Chúng truyền đủ loại bệnh truyền nhiễm trên khắp thế giới—

Một trong những sinh vật cướp đi rất nhiều mạng người

Sốt xuất huyết

muỗi.

Sốt vàng da

Bệnh do virus Zika

Kiểm soát khả năng sinh sản của muỗi có thể ngăn chặn sự lây lan của các bệnh do chúng truyền nhiễm

Nhưng muỗi tìm bạn đời kiểu gì nhỉ?

Xin chào!

Mình là muỗi vằn *Aedes aegypti*, để mình kể cho nè!

Muỗi đực tụi mình có một "đôi tai" rất to và xù.

Cấu tạo cơ quan thính giác của muỗi

♂ Đực

♀ Cái

Râu

Cơ quan Johnston

Cơ quan cảm nhận âm thanh nằm ở gốc "đôi tai" được cho là lớn nhất trong số các loài côn trùng!

Nhờ "đôi tai" này, mình có thể nghe được tiếng vỗ cánh của muỗi cái!

Vậy muỗi giao tiếp với nhau thông qua tiếng vỗ cánh như thế nào nhỉ?

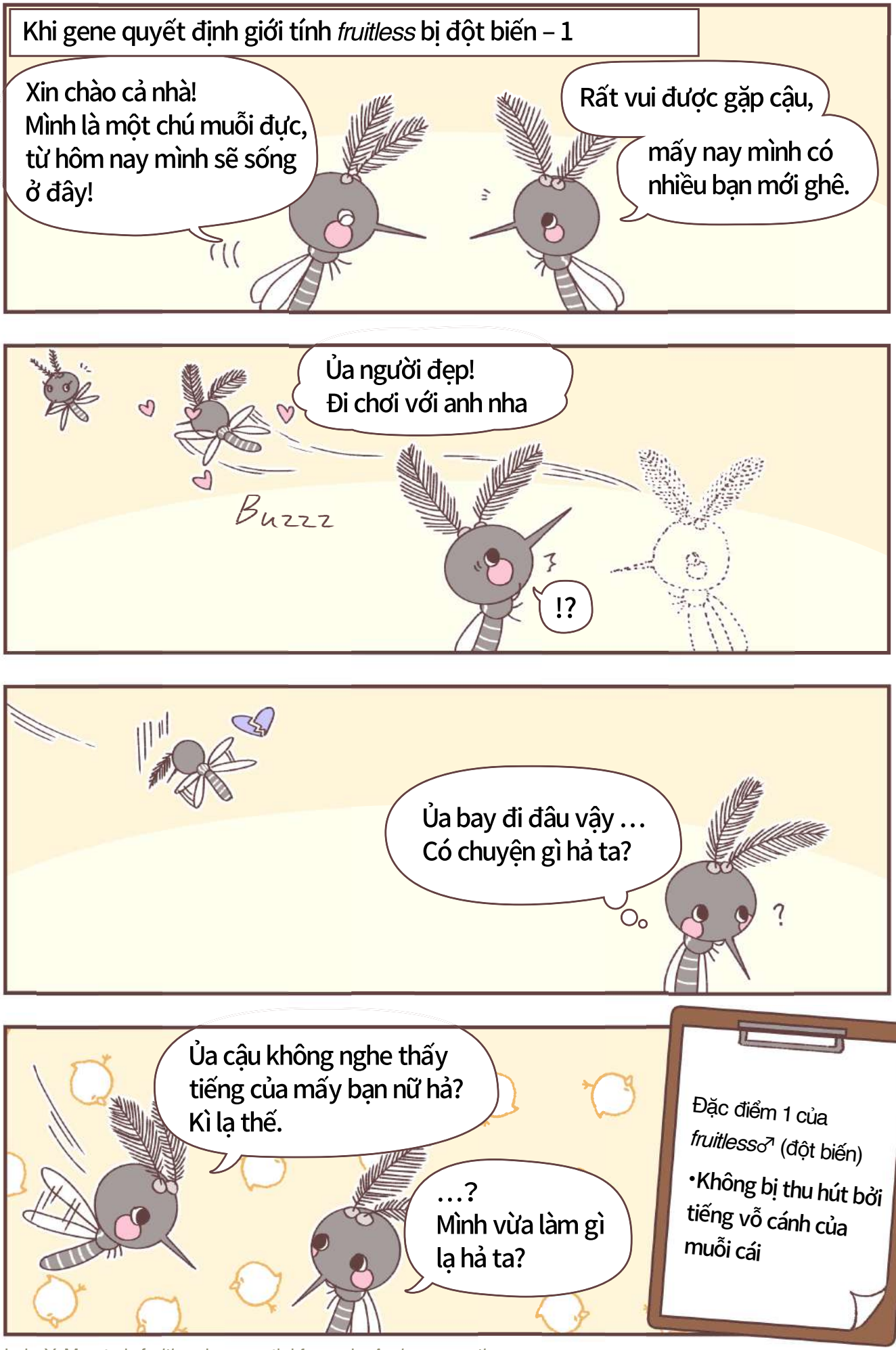
Hãy cùng nhau tìm hiểu bằng cách gây đột biến các gene quyết định giới tính!

Ồồ!

Gene quyết định giới tính...?

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