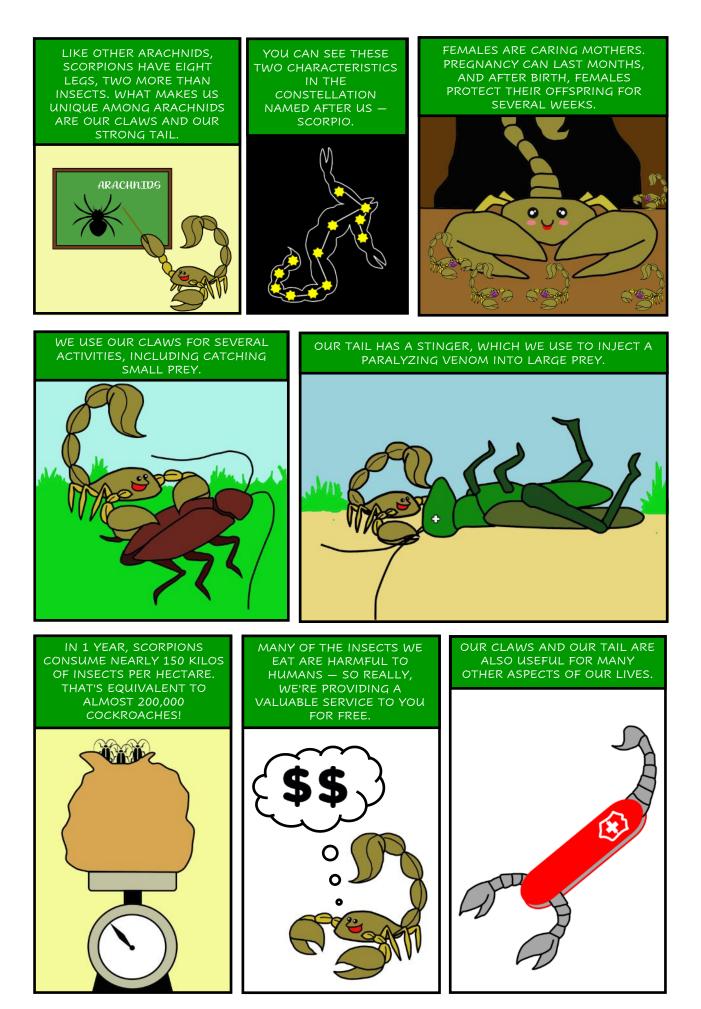
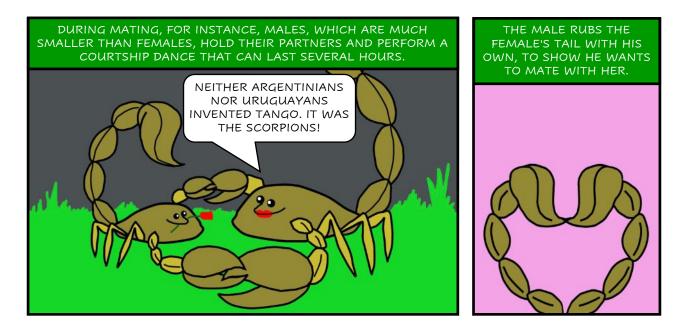
## Lose the tail – save the life



The text of this comic book has been entirely revised and improved with the collaboration of Cara Giaimo, to whom we are very grateful.





CLAWS ARE ALSO USED FOR DEFENSE. LIKE ALMOST ALL ANIMALS, WE SCORPIONS HAVE PREDATORS. SOME OF THEM CAN BE DETERRED BY A GOOD PINCH!





IF SHE AGREES, THE

MALE LEAVES A PACKAGE

OF SPERM ON THE

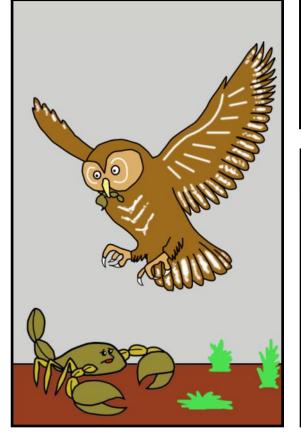
GROUND. THE FEMALE PICKS IT UP TO FERTILIZE HER EGGS.

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NOW GET READY, BECAUSE I'M GOING TO TELL YOU ABOUT ANOTHER WAY WE SCORPIONS USE OUR TAILS FOR DEFENSE. THIS ONE REALLY SEEMS TO SURPRISE HUMANS – IN FACT, THEY ONLY JUST LEARNED ABOUT IT.



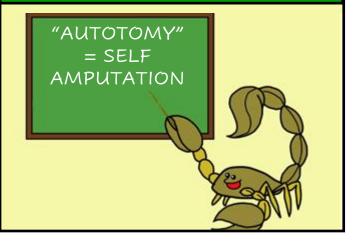
WHEN A PREDATOR GRABS THE TAIL OF AN ANANTERIS, THE SCORPION MAY LET GO OF HIS OWN TAIL TO ESCAPE THE ATTACK ALIVE.



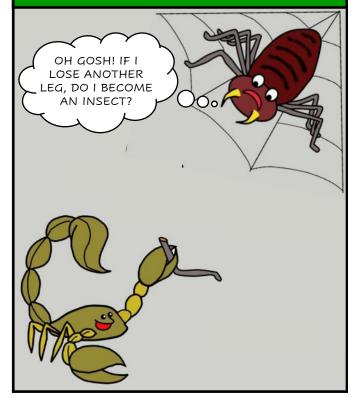
## PARENTHESES

I AM NOT PARTICULARLY SHOCKED BECAUSE I ALWAYS KNEW THAT WE ANANTERIS COULD DO THIS. HOWEVER, FOR PEOPLE TO KNOW, IT WAS NECESSARY FOR A TEAM OF RESEARCHERS TO MAKE THE DISCOVERY AND TELL THE REST OF THE WORLD.

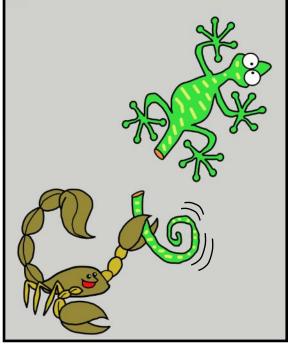
RESEARCHERS CALL THIS "AUTOTOMY" – THE ABILITY TO GET RID OF A BODY PART WHEN GRABBED BY A PREDATOR.

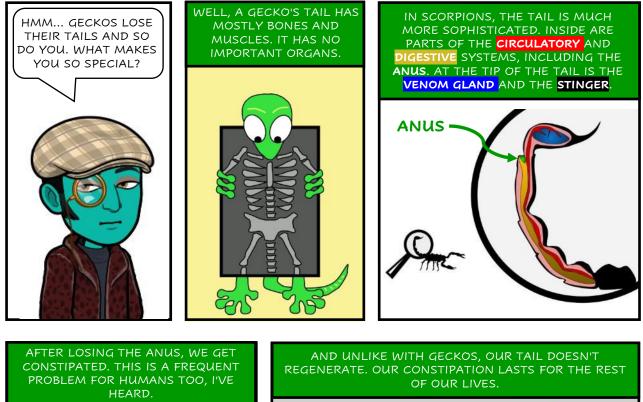


AUTOTOMY OCCURS IN OTHER ARACHNIDS. SPIDERS, FOR EXAMPLE, CAN GET RID OF ONE OR MORE LEGS TO ESCAPE A PREDATOR ATTACK.

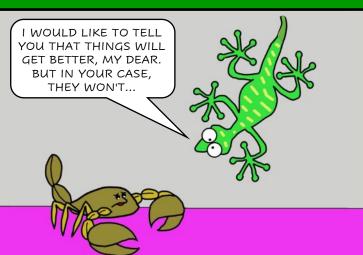


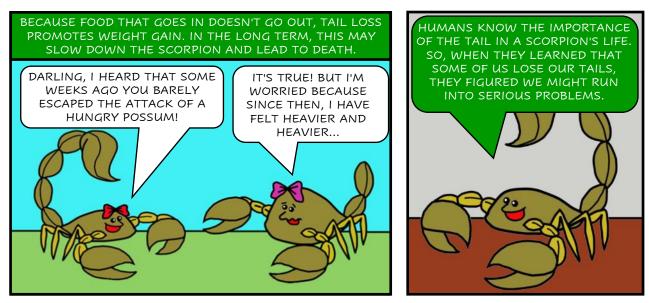
PERHAPS THE MOST FAMOUS CASE OF AUTOTOMY OCCURS IN LIZARDS AND GECKOS. AFTER THEY AMPUTATE THEIR TAILS, THEY RUN AWAY, LEAVING THE BROKEN-OFF PIECE OF TAIL STILL SQUIRMING IN THE PREDATOR'S CLAWS.



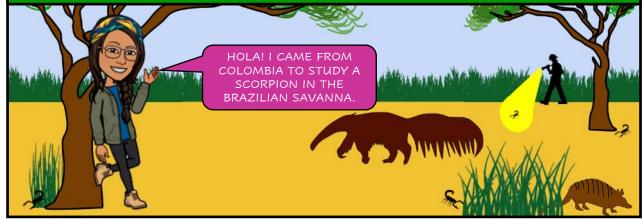


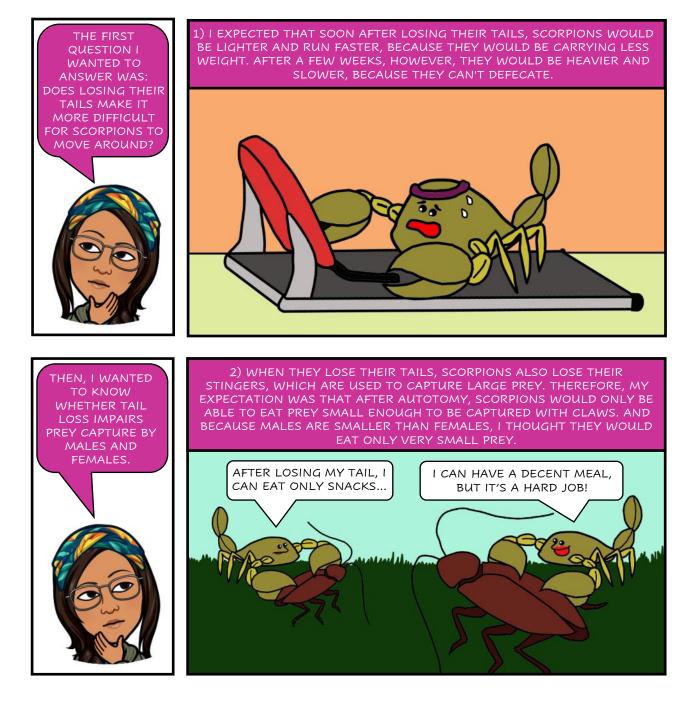


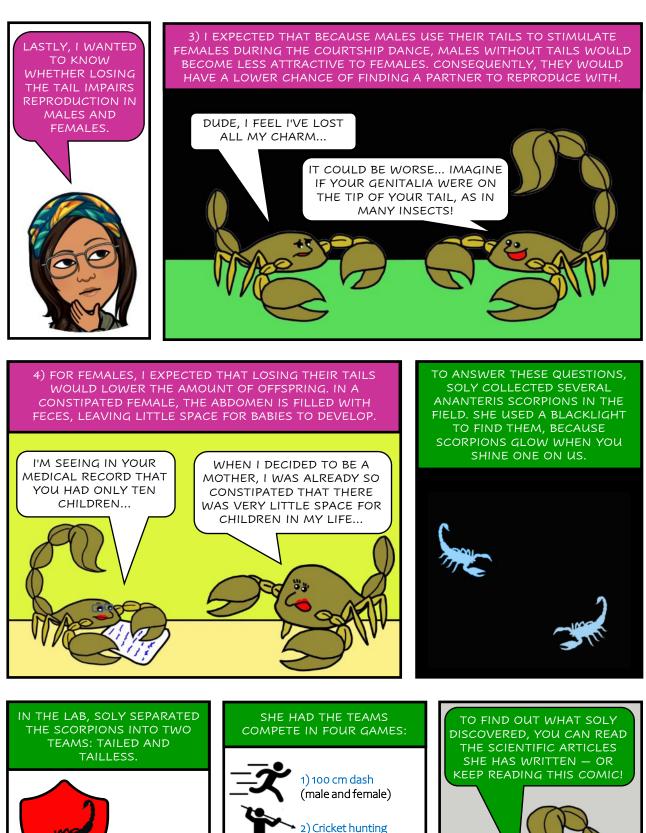




THE PERSON WHO INVESTIGATED THE PROBLEMS THAT COME FROM TAIL LOSS IN SCORPIONS IS NAMED SOLY. SHE IS A DOCTORAL STUDENT IN THE GRADUATE PROGRAM IN ECOLOGY AT THE UNIVERSITY OF SAO PAULO, AND WAS PART OF THE TEAM THAT DISCOVERED AUTOTOMY IN SCORPIONS IN THE FIRST PLACE.







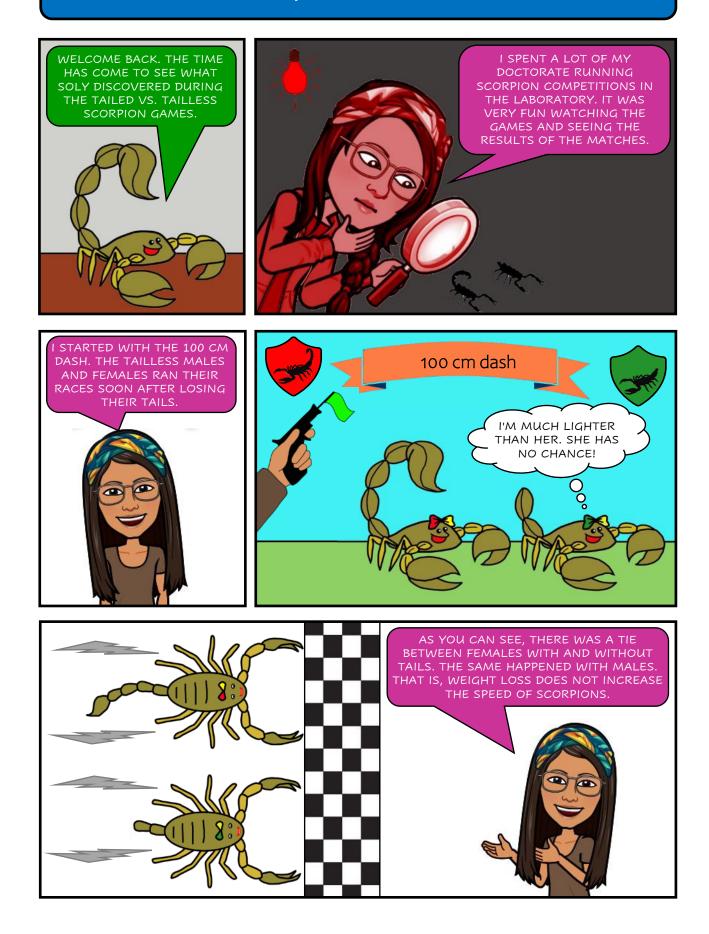


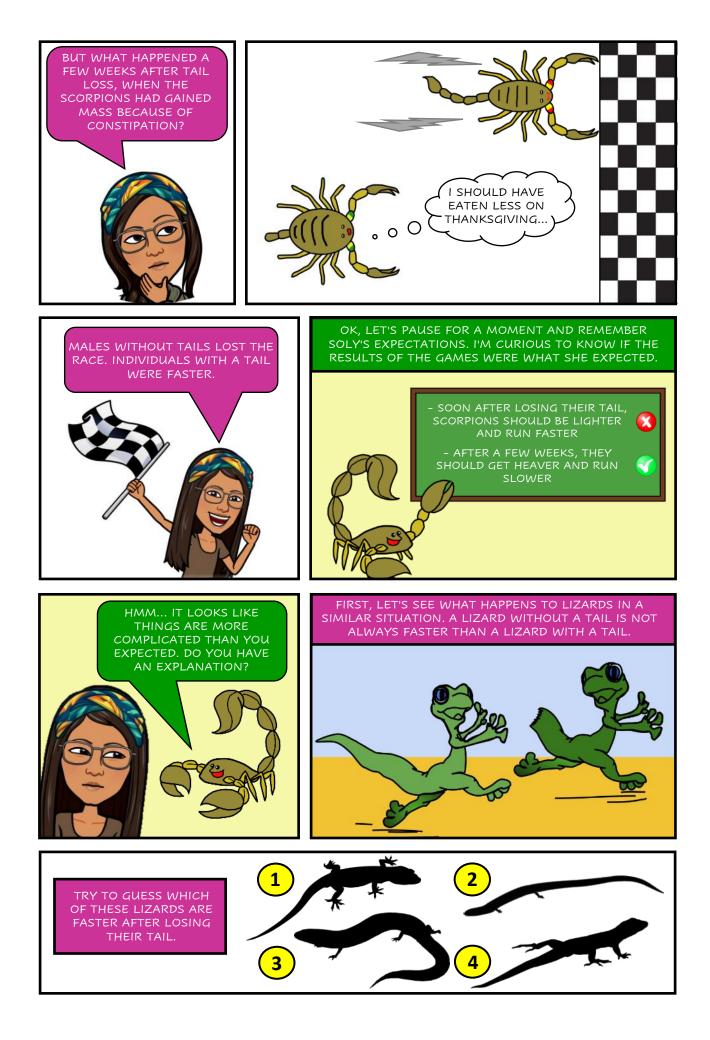
4) Offspring production (female)

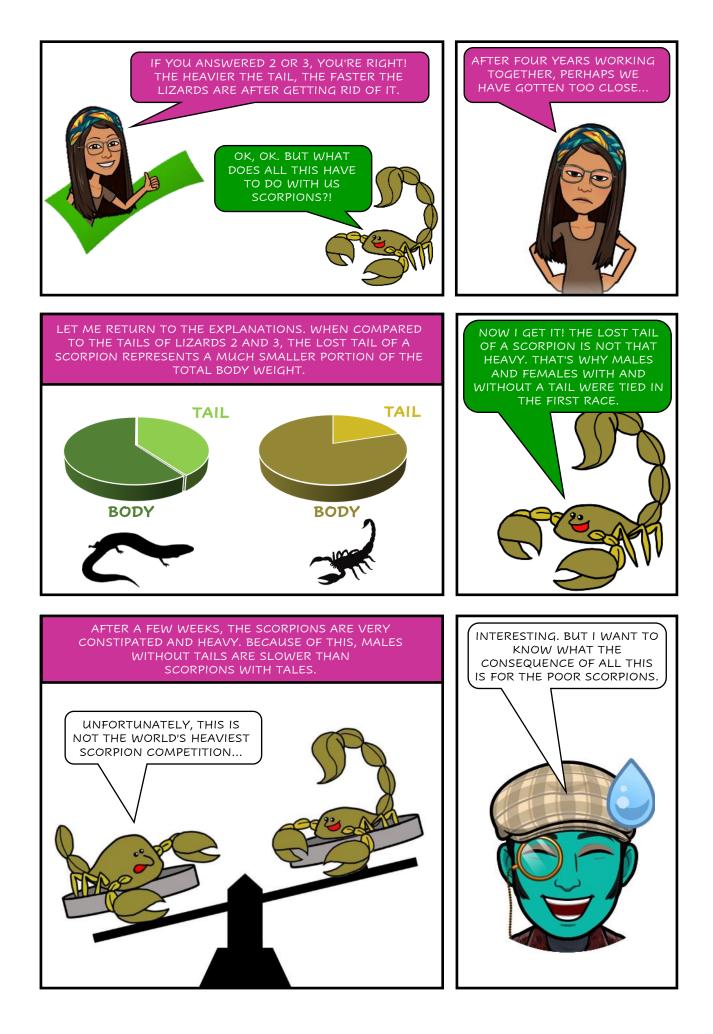
(male and female)

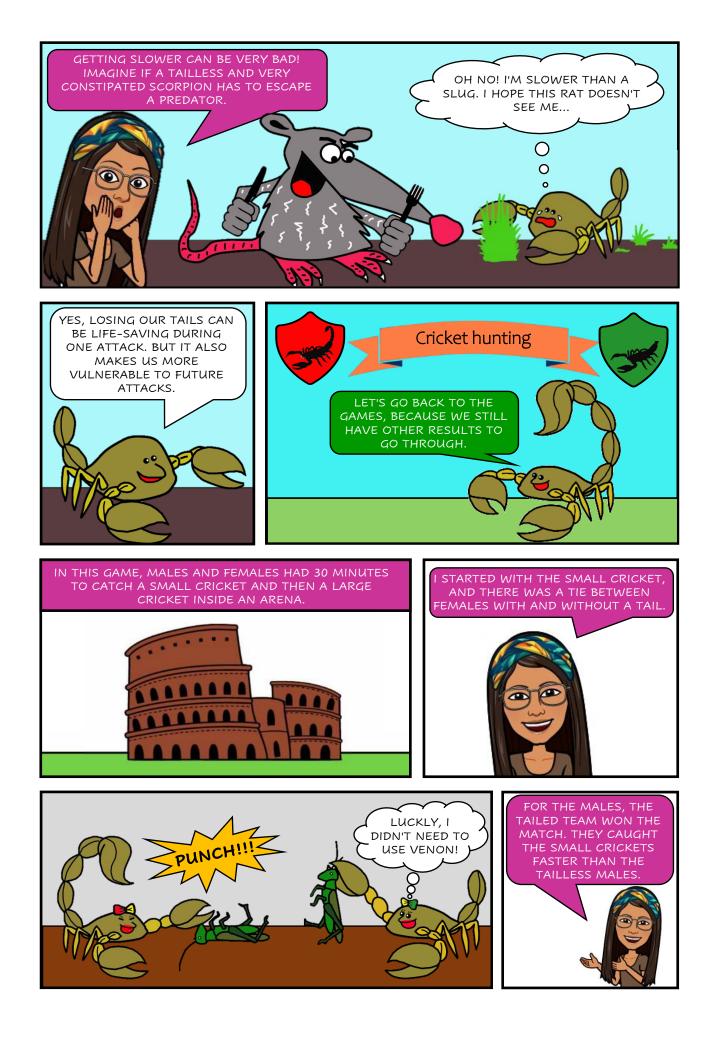


## Four years later...

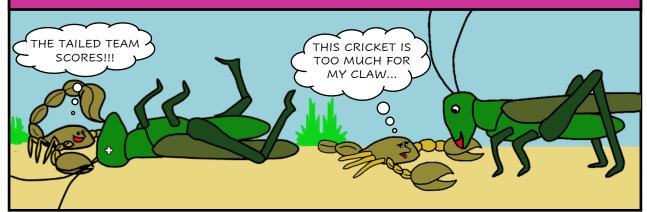




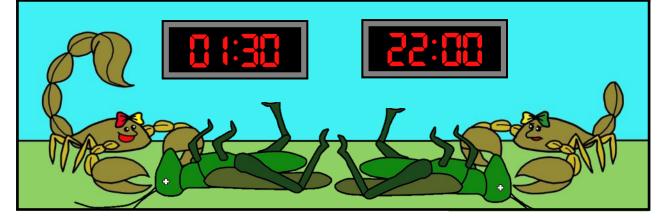


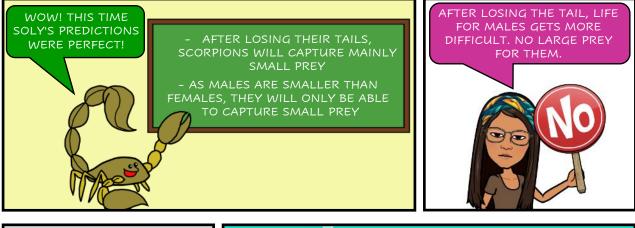


IN THE MATCH WITH A BIG CRICKET, MALES WITH A TAIL WERE ABLE TO USE THEIR VENOM TO KILL AND CAPTURE THE PREY. MALES WITHOUT A TAIL WEREN'T ABLE TO CATCH THE BIG CRICKET AT ALL, EVEN AFTER A LOT OF EFFORT.



## FEMALES WITH AND WITHOUT TAILS MANAGED TO CAPTURE THE BIG CRICKET. HOWEVER, FEMALES WITH TAILS CAUGHT IT MUCH FASTER, SO THEY WON THE MATCH.

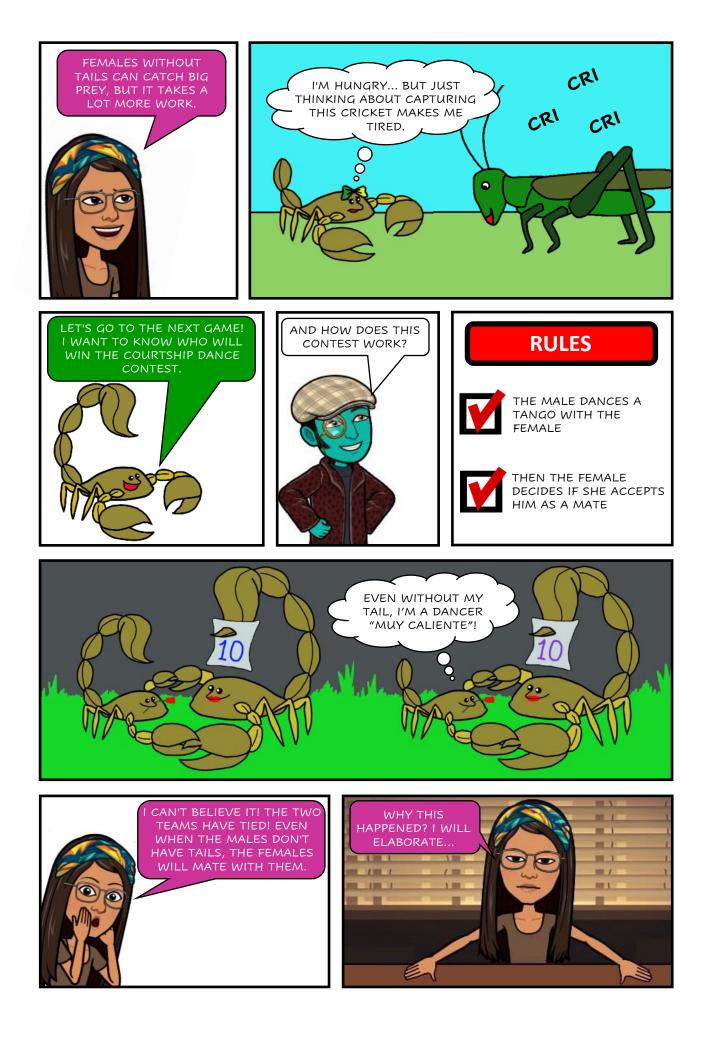


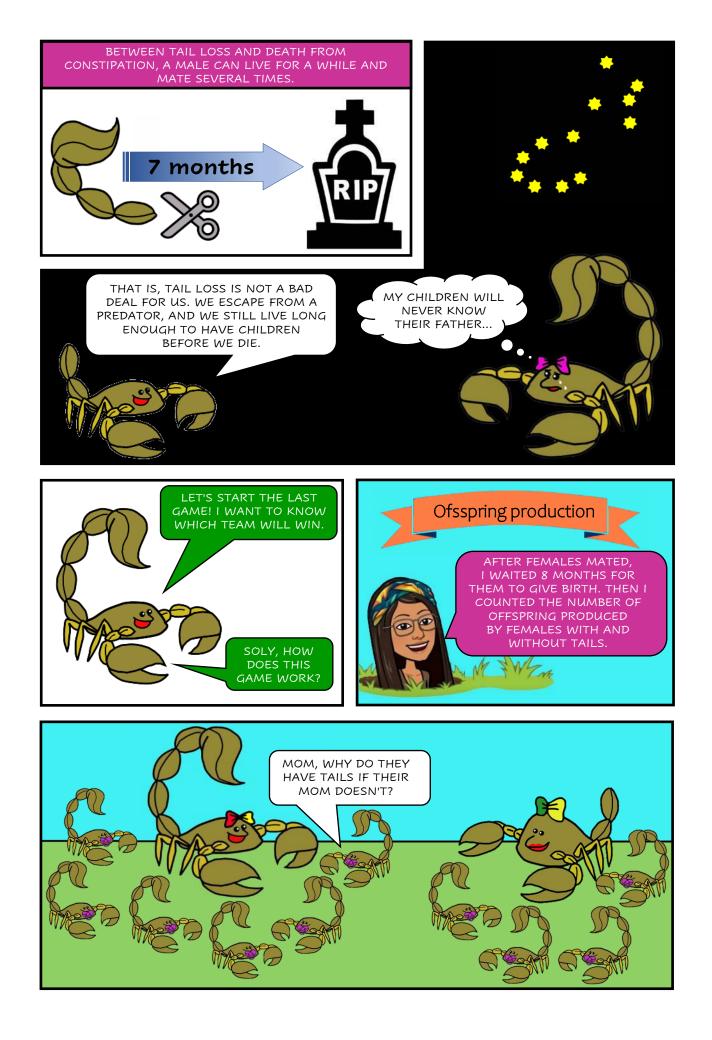


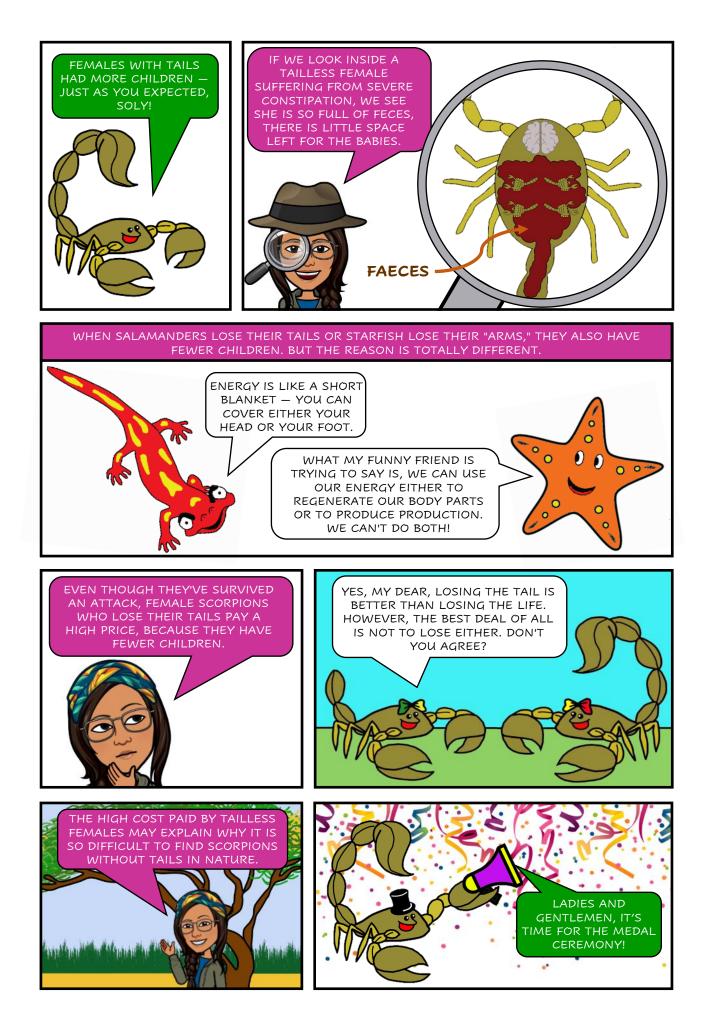


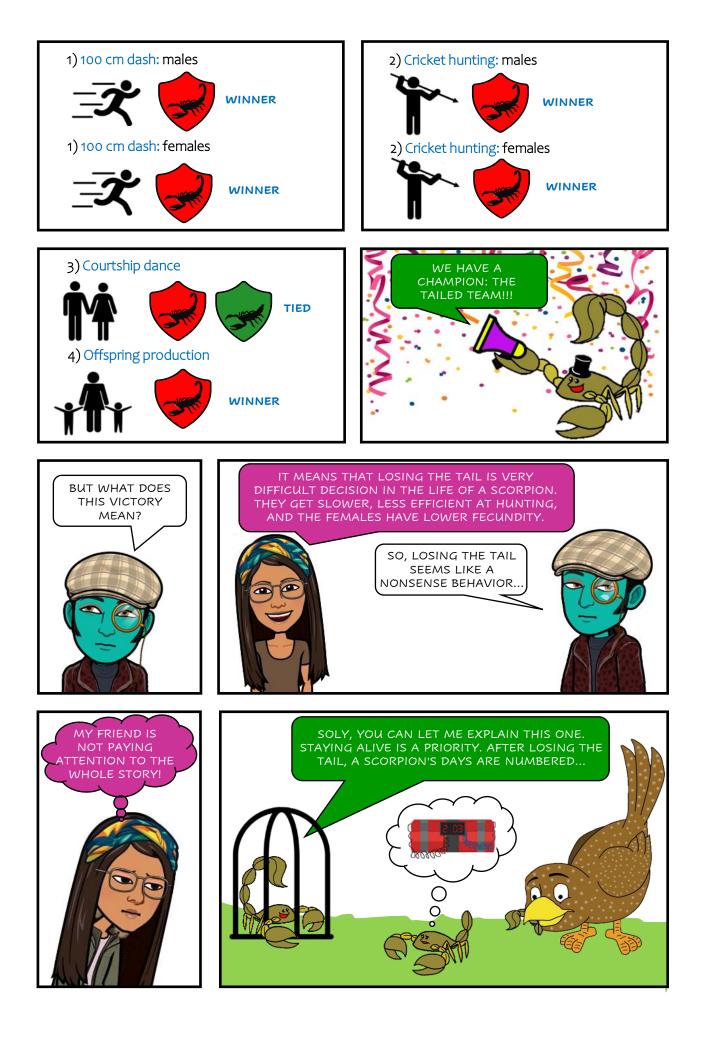


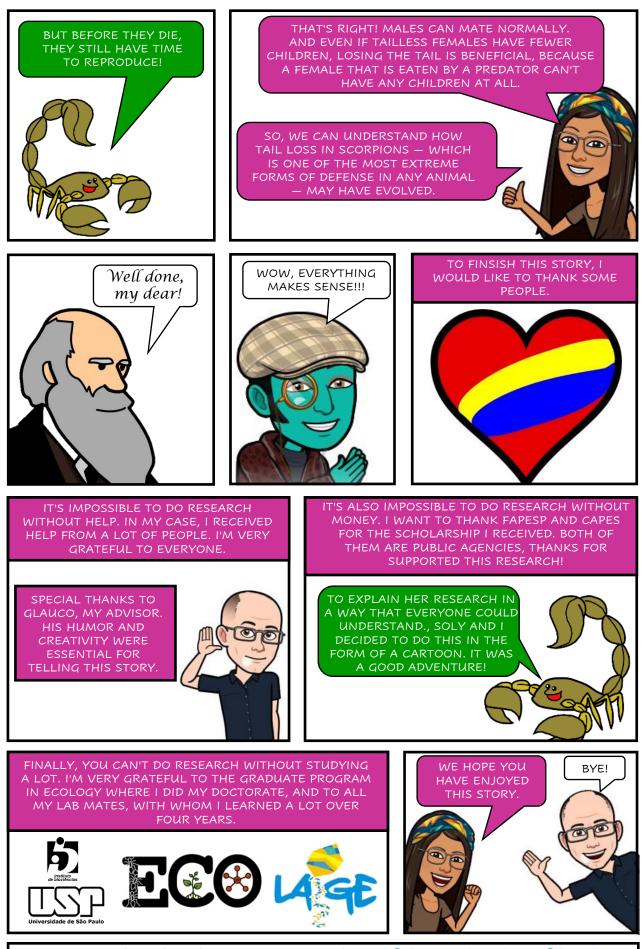
IN CRABS, WE OBSERVE SOMETHING SIMILAR. AFTER LOSING ONE OF THEIR CLAWS, THEY CAN ONLY EAT SMALL CLAMS OR MUSSELS.











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