Survival of the Sneakiest

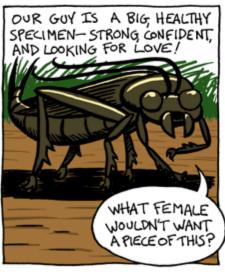
by the Understanding Evolution team at http://evolution.berkeley.edu/evolibrary/article/0 0 0/sneakermales 01

"Survival of the fittest" means that the strong succeed, and the weak fail, right? Well, often that's how it's portrayed, but the real story is a bit trickier. Let's take a closer look at what the crickets do...











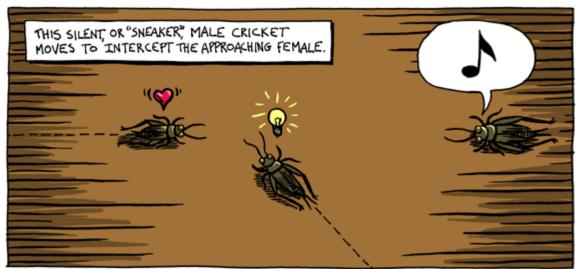


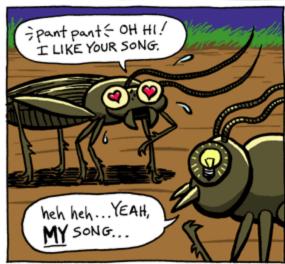


















AND OUR ORIGINAL, STRONG, LOUD, CALLING MALE IS OUT OF LUCK.



IN FACT, HIS SONG HAS ATTRACTED SOME UNWANTED ATTENTION.

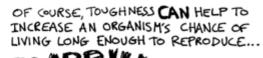




SEE, "SURVIVAL OF THE FITTEST" ISN'T NECESSARILY ABOUT BEING THE TOUGHEST, FASTEST, OR MOST ATTRACTIVE. IT'S REALLY ABOUT SURVIVING TO PASS THE GENES THAT ENCODE TRAITS AND BEHAVIORS ON TO OFFSPRING



MAYBE OUR SNEAKER MALE'S KIDS WILL INHERIT THE "SNEAKY" GENES, AND IN TURN USE SNEAKY BEHAVIOR LIKE THEIR FATHER.







...BUT REPRODUCTION AND THE PASSING ON OF GENES ARE MOST IMPORTANT IN TERMS OF EVOLUTION. AND THERE ARE MANY WAYS THAT AN INDIVIDUAL CAN GET THEIR GENES INTO THE NEXT GENERATION.

CALLING IS STILL A GOOD STRATEGY FOR MALE CRICKETS TO INCREASE THEIR CHANCE OF MATING. FEMALES ARE ATTRACTED TO CALLING MALES, AND THERE WON'T ALWAYS BE SNEAKERS OR PREDATORS AROUND TO DERAIL THE CALLERS.



AND IF THEY ALL USED THE SILENT, SNEAKER STRATEGY, THEN **NO** FEMALES WOULD BE ATTRACTED AT ALL, AND THE MALES WOULD HAVE SOME LONG LONELY NIGHTS.



SO, WE END UP WITH A VARIETY OF SUCCESSFUL MATING STRATEGIES. THAT'S HOW NATURAL SELECTION WORKS. THERE IS NO ONE, TRUE, ULTIMATE SURVIVAL STRATEGY. A SUCCESSFUL STRATEGY IS WHATEVER GETS THE JOB DONE.







CRICKETS DON'T
ACTUALLY SING
WITH VOICES,
LIKE BIRDS OR
PEOPLE. THE MALE
CRICKET'S SONG
IS MADE BY
SCRAPING ONE WING
ACROSS ANOTHER,
SORT OF LIKE A
VIOLIN BOW SCRAPING
ACROSS A STRING.

CRICKETS
CHIRP MORE
OFTEN IF IT'S
HOTTER. IN FACT,
IT'S POSSIBLE TO
ESTIMATE THE
TEMPERATURE BASED ON
THE FREQUENCY OF CRICKET
CHIRPS.

HOW BOUT

Discussion questions

calling?

When it comes to crickets, what does fitness mean?
 Is calling good or bad for a cricket's fitness?
 Give some examples of selection at work in this cricket story.
 How does selection favor calling? How does selection favor not

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