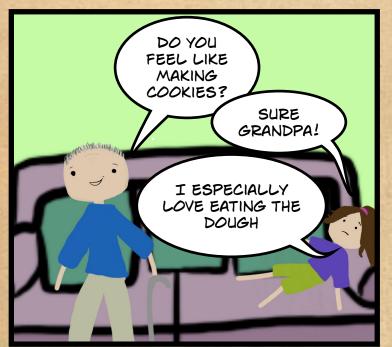
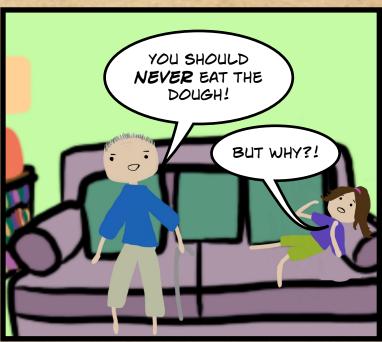
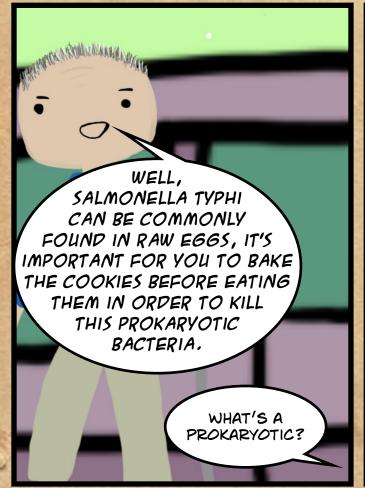
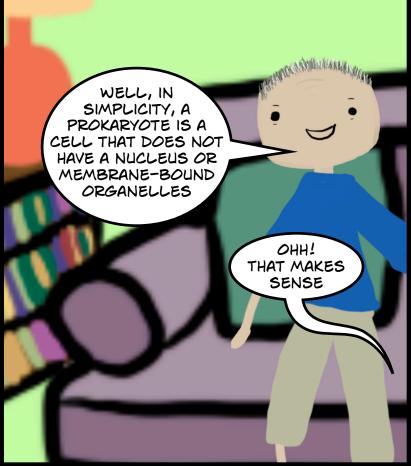
Samonella Typin



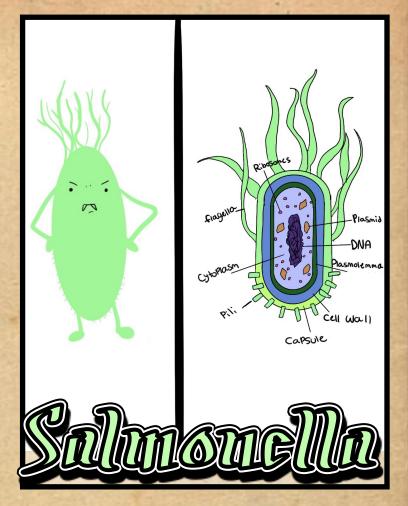




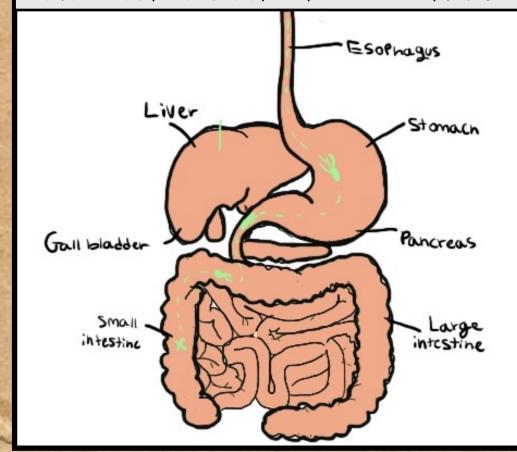


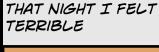
WHEN I WAS A YOUNG BOY, I WANTED TO MAKE SOME DELICIOUS CHOCOLATE CHIP COOKIES, I WAS SO EXCITED, I WAS EVEN USING MY MOTHERS RECIPE. LITTLE DID I KNOW SOMETHING TERRIBLE WOULD BE THRIVING WITHIN THE DOUGH.



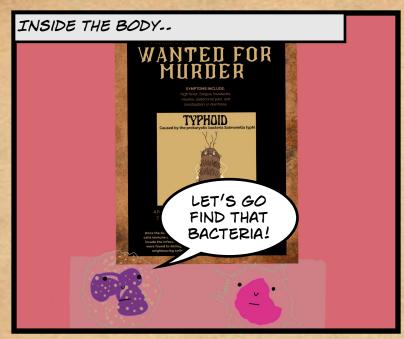


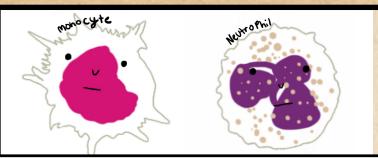
THE DOUGH CONTAINED A DANGEROUS BACTERIA KNOWN AS SALMONELLA TYPHI, IT TRAVELLED THROUGH MY SMALL AND LARGE INTESTINE BEFORE MY BODY TRIGGERED AN IMMUNE RESPONSE.











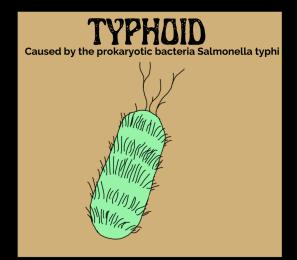
BOTH OF THESE WHITE BLOOD CELLS HELP FIGHT BACTERIA. MONOCYTES FIGHT INFECTIONS AND HELP OTHER WHITE BLOOD CELLS REMOVE DEAD OR DAMAGED TISSUES, DESTROY CANCER CELLS, AND REGULATE IMMUNITY AGAINST FOREIGN SUBSTANCES. NEUTROPHILS HELP PREVENT INFECTIONS BY BLOCKING, DISABLING, DIGESTING, OR WARDING OFF INVADING PARTICLES AND MICROORGANISMS.



WANTED FOR MURDER

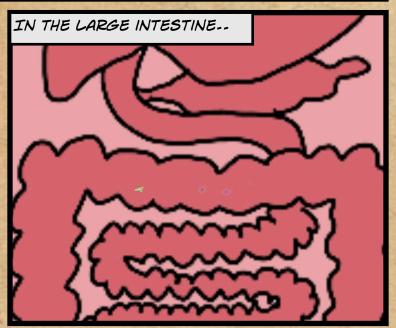
SYMPTOMS INCLUDE:

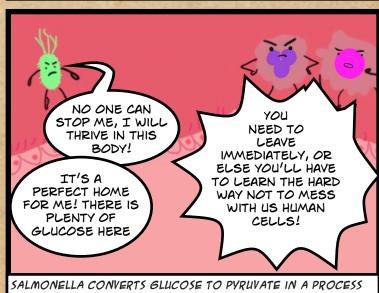
high fever, fatigue, headache, nausea, abdominal pain, and constipation or diarrhoea.



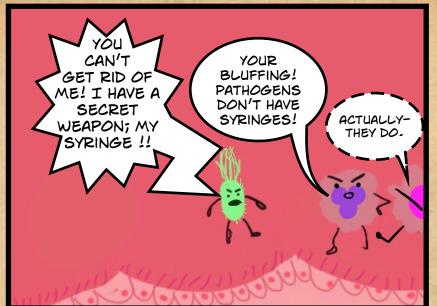
AN ESTIMATED 11-21 MILLION CASES OF TYPHOID FEVER AND 200,000 DEATHS OCCUR WORLDWIDE EACH YEAR.

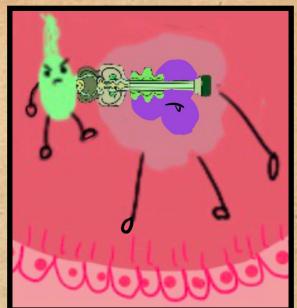
Once the bacteria enters the bloodstream, the immune system detects it and calls immune cells such as monocytes and neutrophils to help out. These cells invade the infected tissue and surround the infection. In time, Typhoid toxins were found to damage DNA and accelerate cell aging of infected cells and neighbouring cells, which makes cells more secebtable to infection.

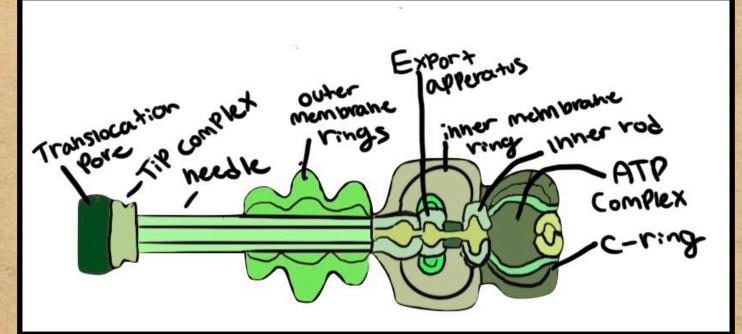




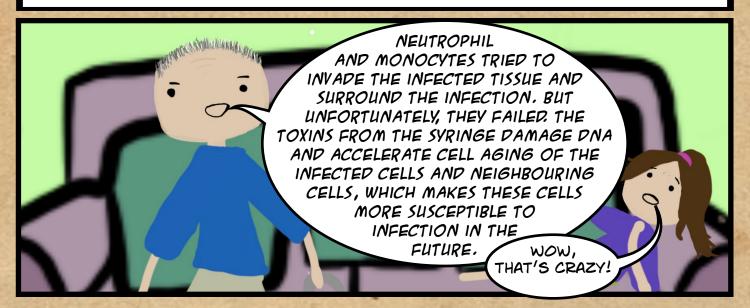
SALMONELLA CONVERTS GLUCOSE TO PYRUVATE IN A PROCESS CALLED GLYCOLYSIS, WHICH ALSO RELEASES ENERGY NEEDED TO FUEL GROWTH AND REPRODUCTION.

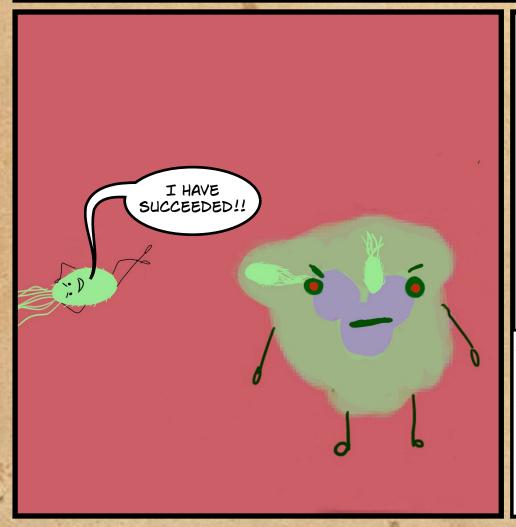


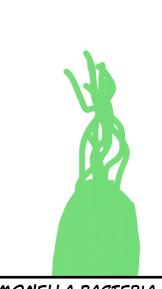




IT'S TRUE, SALMONELLA DOES HAVE A NEEDLE. THE SUBSTANCES INJECTED INTO THE NEUTROPHIL MANIPULATE ESSENTIAL METABOLIC PROCESSES AND DISABLE THE IMMUNE SYSTEM OF THE INFECTED CELLS. THE CONSEQUENCES ARE FATAL AS THE PATHOGENS CAN NOW SPREAD WITHIN THE ORGANISM WITHOUT ANY OBSTACLES.





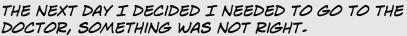


Wito Condrio

Phagosome

SALMONELLA BACTERIA HAVE ANOTHER SECRET WEAPON!
THEY CAN SPINDLE THEIR
FLAGELLA IN ORDER TO SWIM
THROUGH THE BODY AS QUICK
AS POSSIBLE! THE ROTATIONAL
SPEED OF THE FLAGELLAR
MOTOR IS MUCH FASTER THAN
THAT OF A CAR ENGINE.



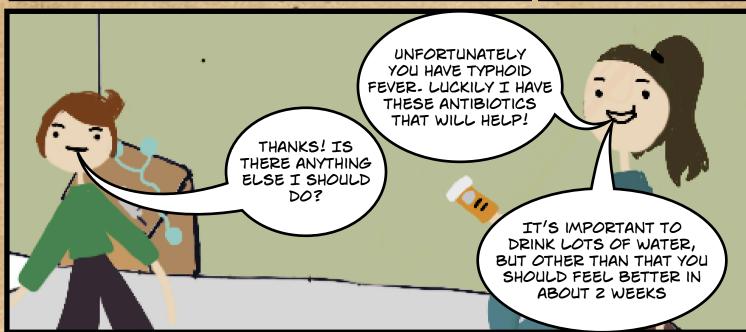






WE'LL
NEED A
BLOOD
SAMPLE TO BE
SURE, BUT IT
SOUNDS LIKE
YOU MAY HAVE
TYPHOID
FEVER.





Doc

