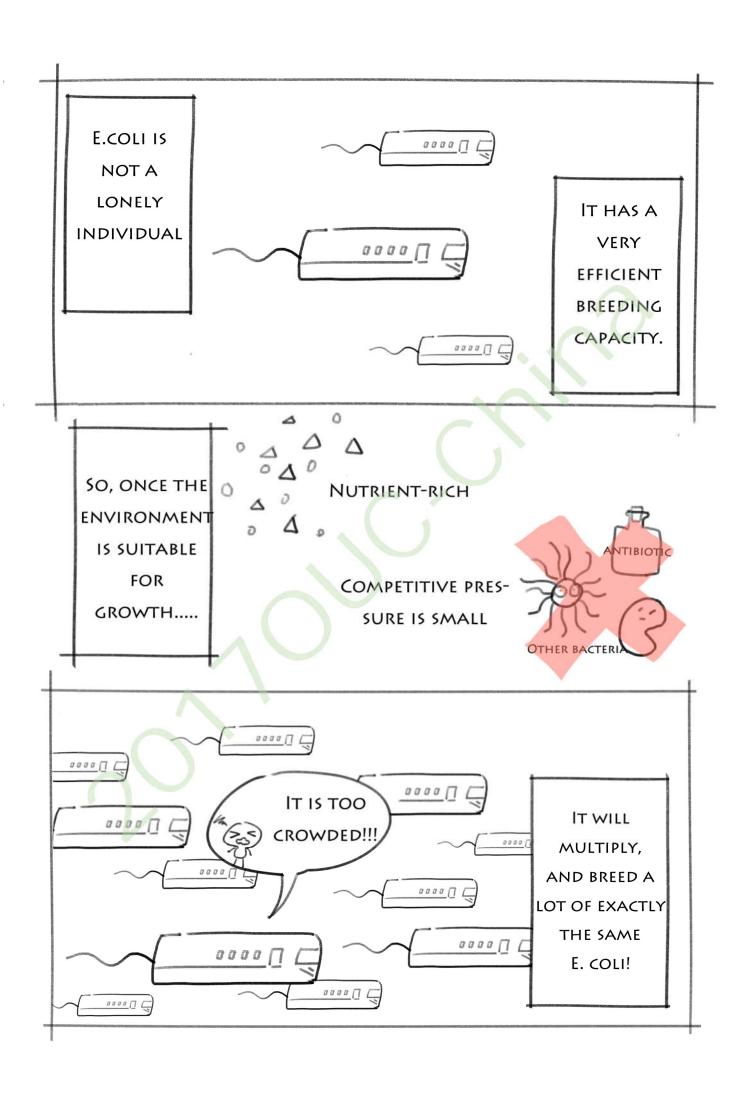
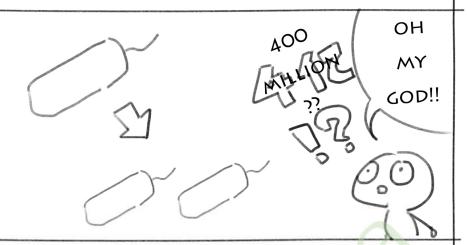
Chapter5 Biosafty



E.COLI WILL SPLIT INTO TWO, SPLIT TWICE INTO FOUR, SPLIT THREE TIMES TO BECOME EIGHT, AND SO ON. WHEN IT SPLITS THIRTY TIMES, THERE WILL BE MORE THAN 400 MILLION E.COLI!!!!



E.COLI SPLITTING ONCE ONLY NEEDS 20MIN, AND WHEN BREEDING IT WILL PRODUCE HARMFUL SUBSTANCES.

THIS IS WHY THE FOOD PUTTING OUTSIDE FOR A LONG TIME WILL CAUSE DETERIORATION.



FOOD NUTRIENT-RICH FOR E. COLI AND OTHER MICROOR-GANISMS ARE SUITABLE FOR THE GROWTH OF THE ENVIRONMENT! WAIT...IF THAT'S TRUE,
WHERE DID WE COME
FROM AND WHERE WILL
WE GO?



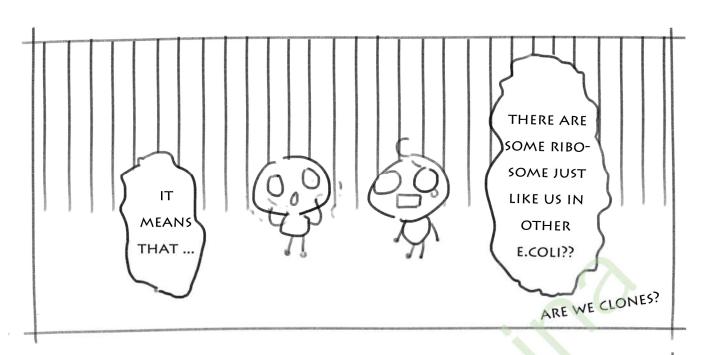
RIBOSOME IS A ORGANELLE IN THE CELL, WHICH IS RESPONSI-BLE FOR COMPLETING THE PROCESS FROM RNA TO PROTEIN, WHICH IS ALSO CALLED TRANSLATION, SO IT CAN MOVE ON MRNA



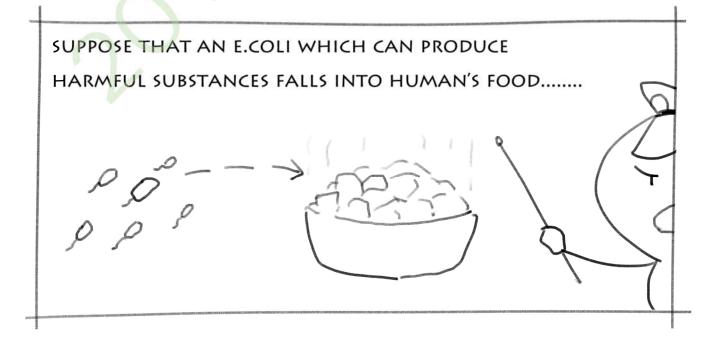
CELL DIVISION IS THE PROLIFERATION PROCESS OF LIVING CELLS. IN THIS PROCESS, THE GENE IS COPIED AND PASSED TO THE NEXT CELL, RESULTING TWO CELLS DIVIDED FROM THE SAME PARENT VERY SIMILAR.

RIBOSOMES CONTAIN PROTEINS (TRANSLATED FROM GENES) AND RNA.

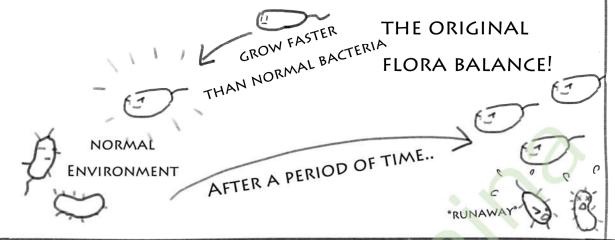
THEREFORE, THE RIBOSOME FORM TWO CELLS DIVIDED FROM THE SAME PARENT PROBABLY VERY SIMILAR.....







OR SMONE BACTERIA WITH SPRCIAL FUNCTIONS COME INTO THE NORMAL ENVIRONMENT... IT MAY DESTROY



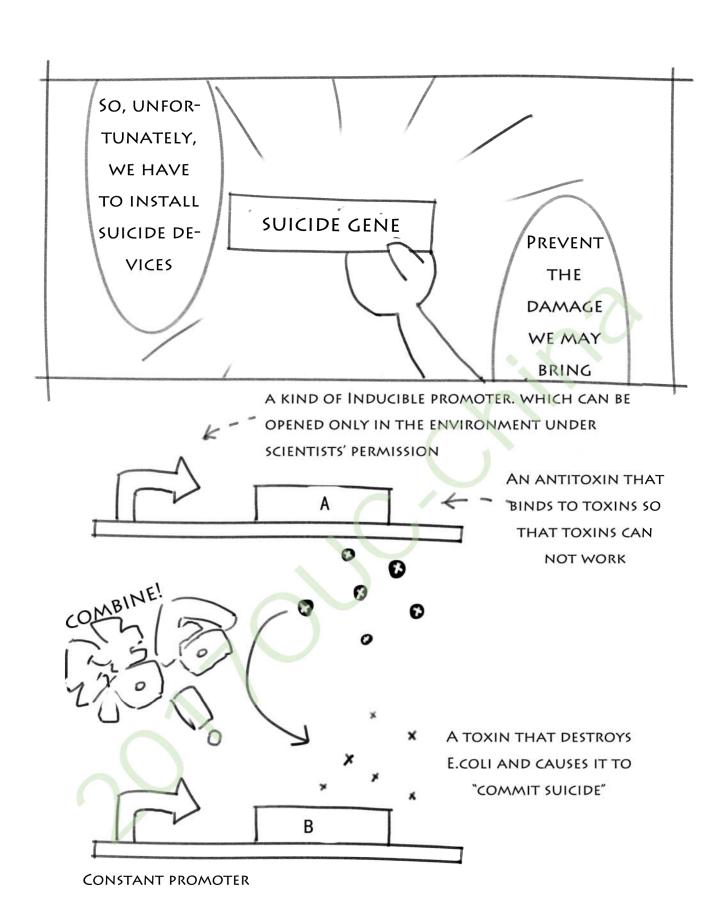
THE FORMER IS TERRIBLE, **BUT THE LATTER IS** NOT TERRIBLE AT ALL!

EMM...I'M TRYING TO **EXPLAIN IT TO YOU**



FLORA BALANCE IS VERY COMPLEX. ONCE IS DYSFUNCTIONAL, IT IS LIKELY TO CHANGE THE WHOLE ENVIRONMENT! FOR EXAMPLE, GASTROINTESTINAL FLORA IMBALANCE AND SOME GASTROINTESTINAL DISEASES ARE CLOSELY **RELATED!**





SINCE THE TOXIN WILL ALWAYS EXIST, THE ANTITOXIN CAN BE EXPRESSED AND DETOXIFIY THE CELLS ONLY IN THE PERMITTED ENVIRONMENT.



BUT WE WLL EVEN SADDER IF E.COLI HARMS OTHERS...



SO WE HAVE TO WORK HARDER!

LET THE E. COLI
GO IN THE RIGHT
DIRECTION AND
MAKE MORE CONTRIBUTIONS TO
SCIENCE!!