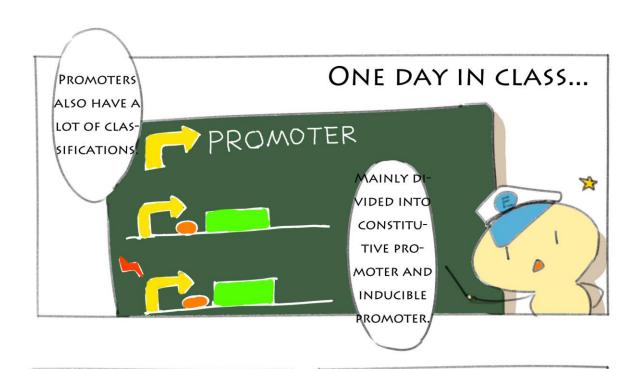


## Chapter 2

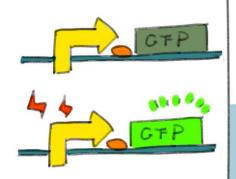
LOGIC DEVICE



CONSTITUTIVE PROMOTER (CONSTANT PROMOTERS)



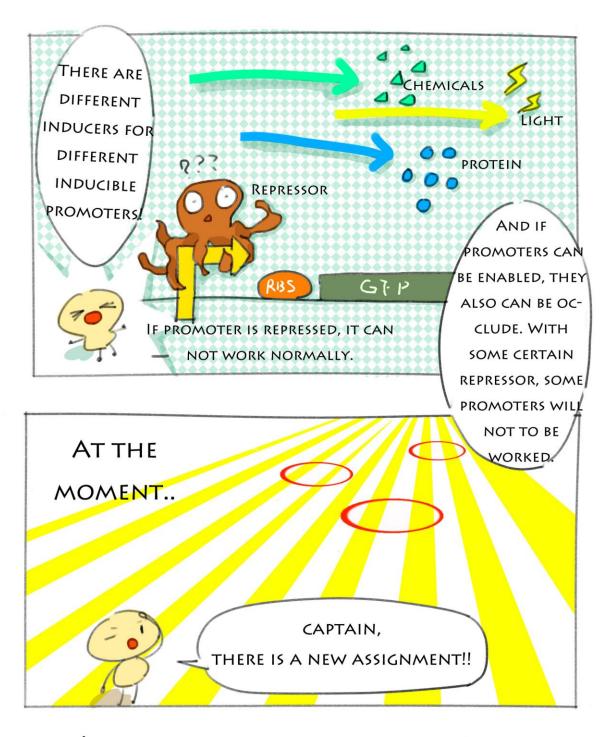
INDUCIBLE PROMOTER



CONSTITUTIVE
PROMOTERS ARE
OPEN IN NORMALLY! YOU WILL
UNDERTAKE
WORK AS SOON
AS YOU SEE THEM.

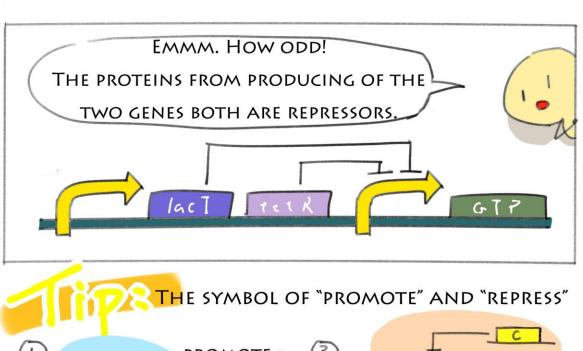


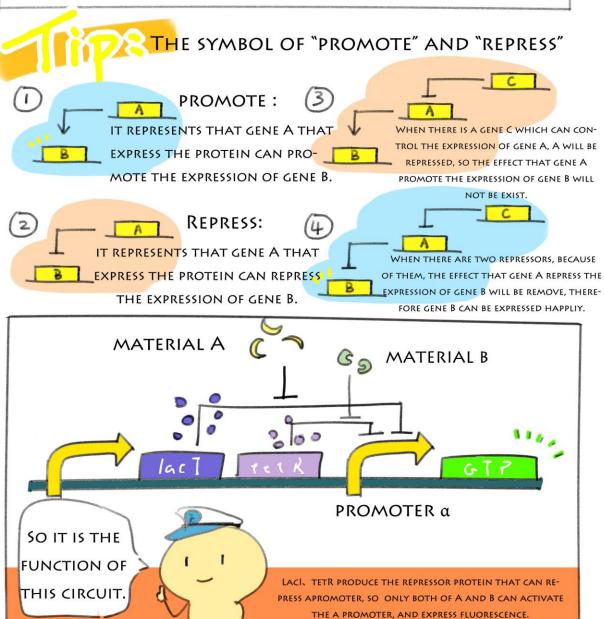
HOWEVER,
INDUCIBLE
PROMOTERS
ARE OPENED BY
SPECIFIC SUBSTANCE OR
SIGNAL.



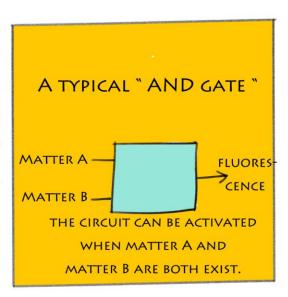
IT IS THE POST-TRANSCRIPTIONAL CONTROL

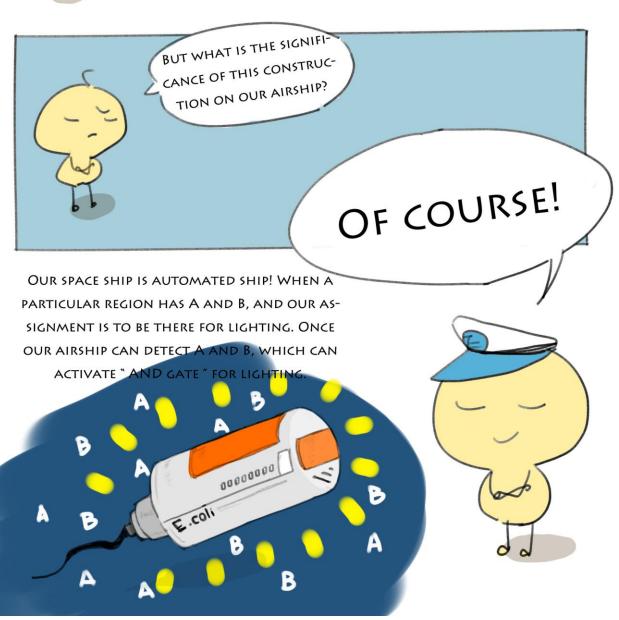


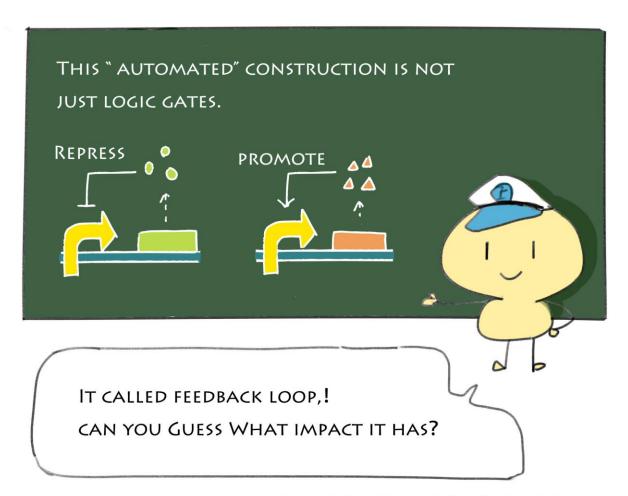


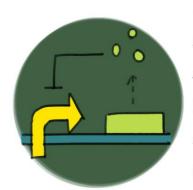


THE CONSTRUCTION THAT BOTH
OF A AND B ARE EXIST FOR ACTIVATING, CALLED "AND GATE",
IT IS A KIND OF LOGIC GATE. BESIDES, "NOR GATE" AND "NOT
GATE". "AND GATE" IS THE SIMPLEST LOGIC GATES.









IT IS NEGATIVE FEEDBACK! WHEN THE MATTER EXPRESS TOO MUCH, IT CAN ACT ON THE PROMOTER TO TURN DOWN THE STRENGTH OF PROMOTER, MAKE THE LATTER EXPRESSION NOT OVER CAPACITY!

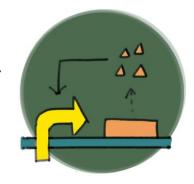
AND THAT IT IS A POSITIVE

FEEDBACK, IT MAKES THE FRONT

OF PROMOTER BE MORE AND

MORE STRONGER, PRODUCING

MORE PROTEINS.



SOME OF THESE
LOGICAL STRUCTURES HAVE ALREADY BEEN PUT
INTO PRACTICE,
BUT SOME OF
THEM ARE UNKNOWN TO US.

HOWEVER,
SIMULATING THE
STRUCTURE OF
ELECTRONIC CIRCUIT IN ORGANISM
IS STILL FUNNY!

