



i

GEM

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Xiaolan was diagnosed with depression.

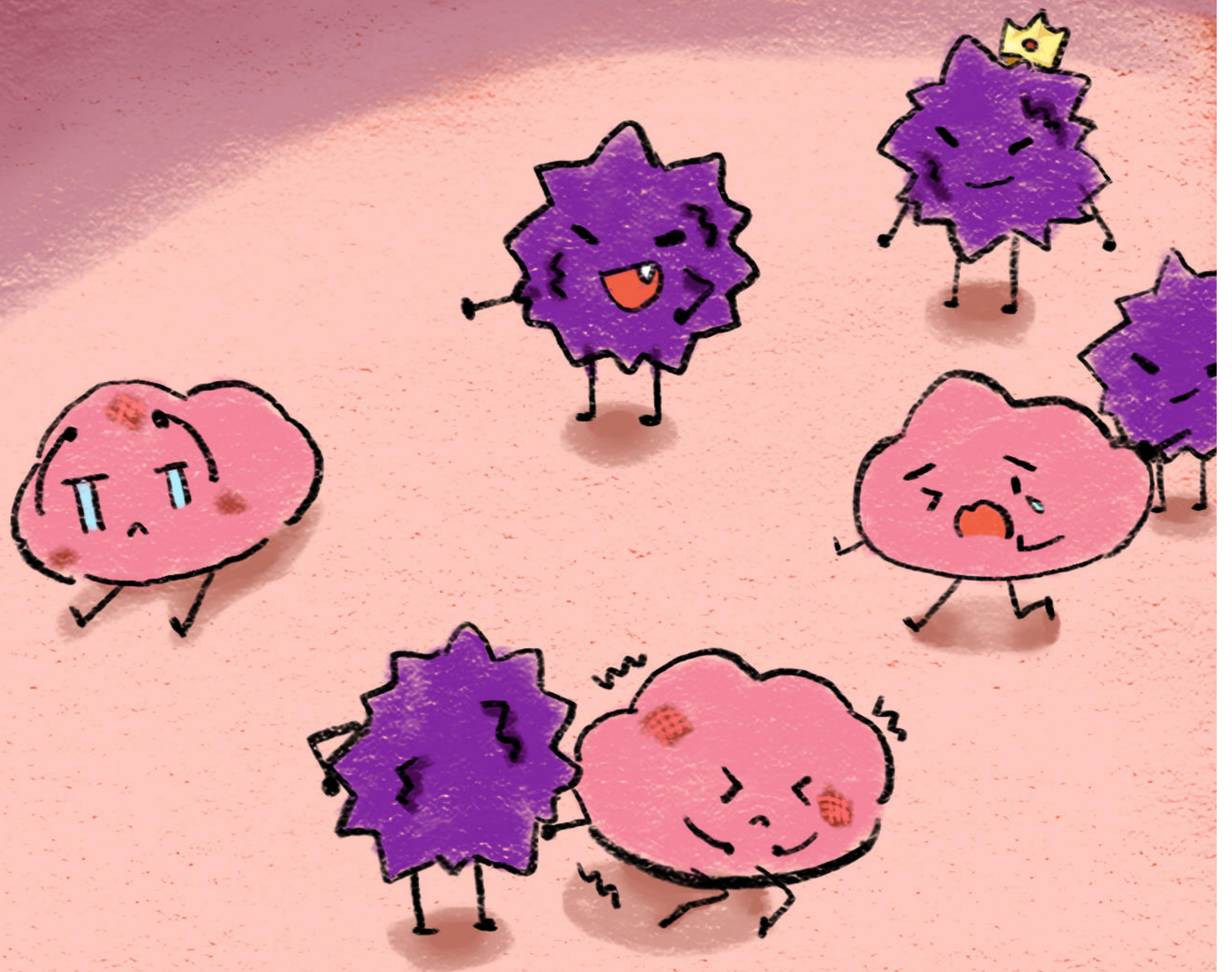
She did not feel interest in anything,

and she seemed to have lost her enthusiasm for life.

In the middle of the night, she often cried alone.....

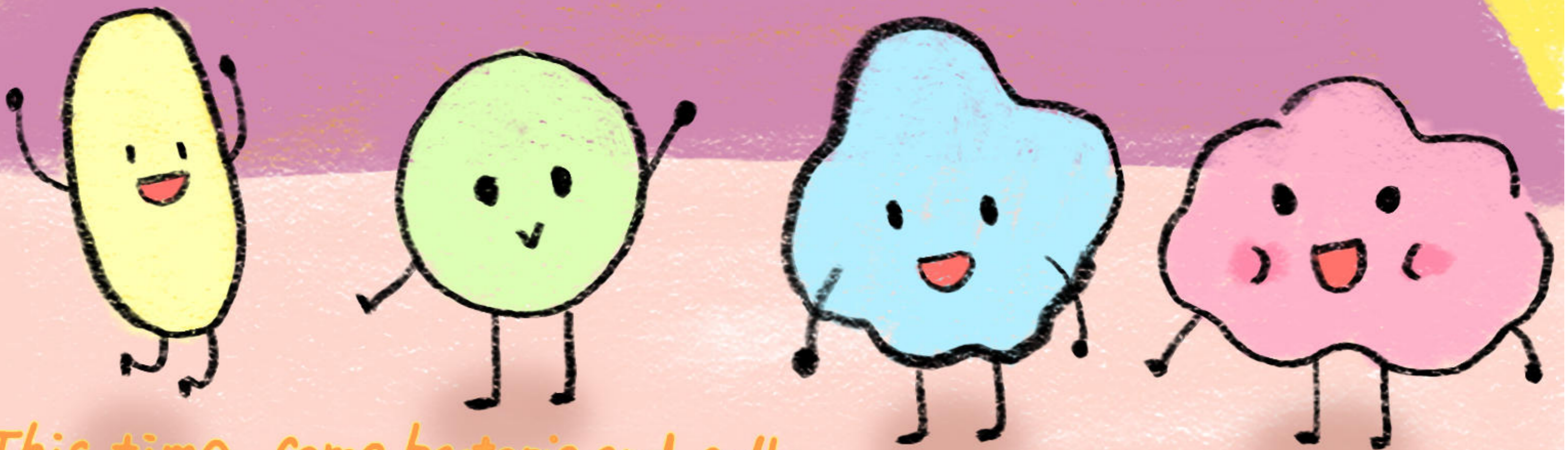


Inside her body, there is a group of "bad guys", forming a "depressive force".
They bullied the proteins and cells that can make Xiaolan happy.





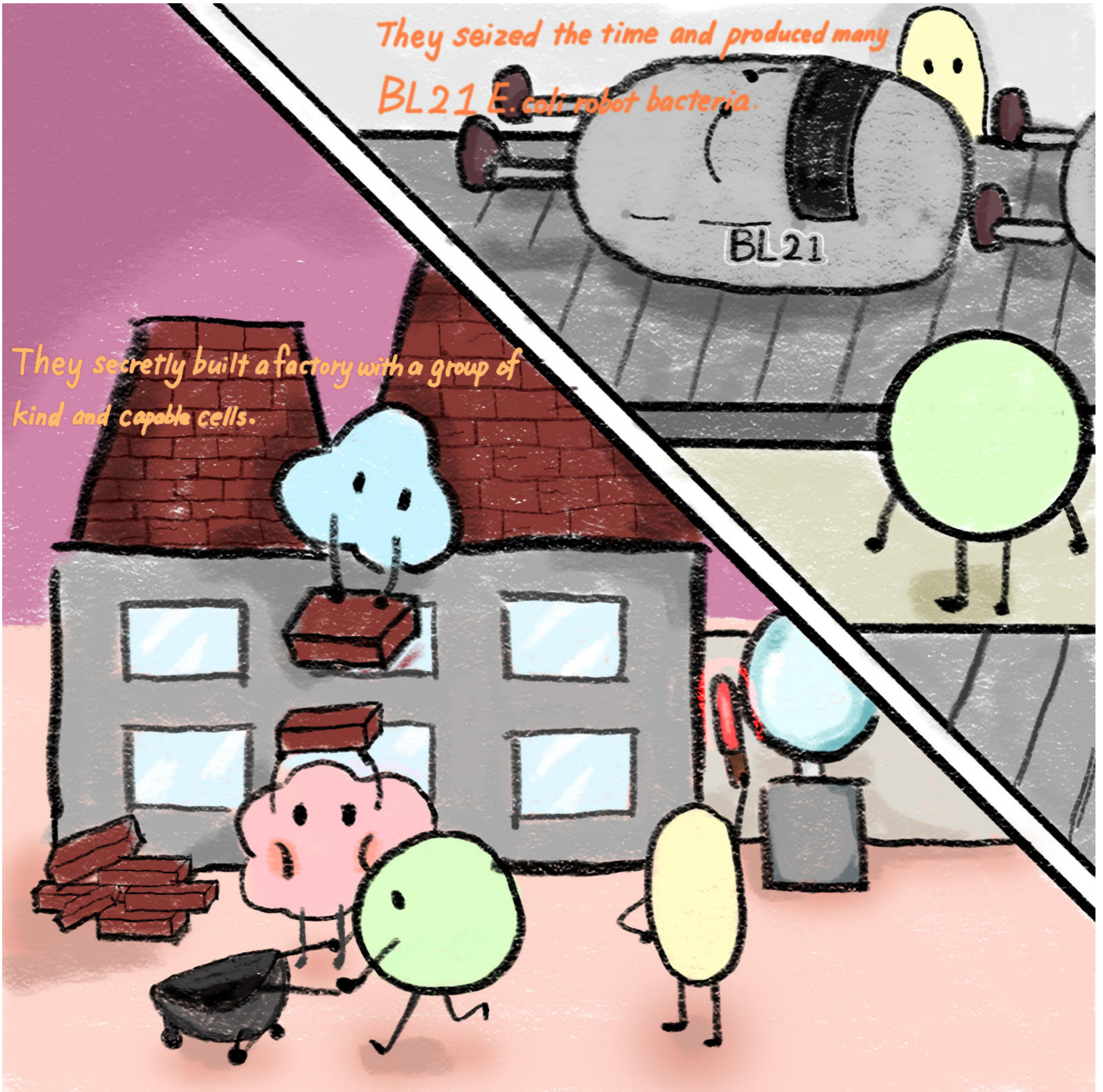
*They vowed to eliminate
the "depressive force"*



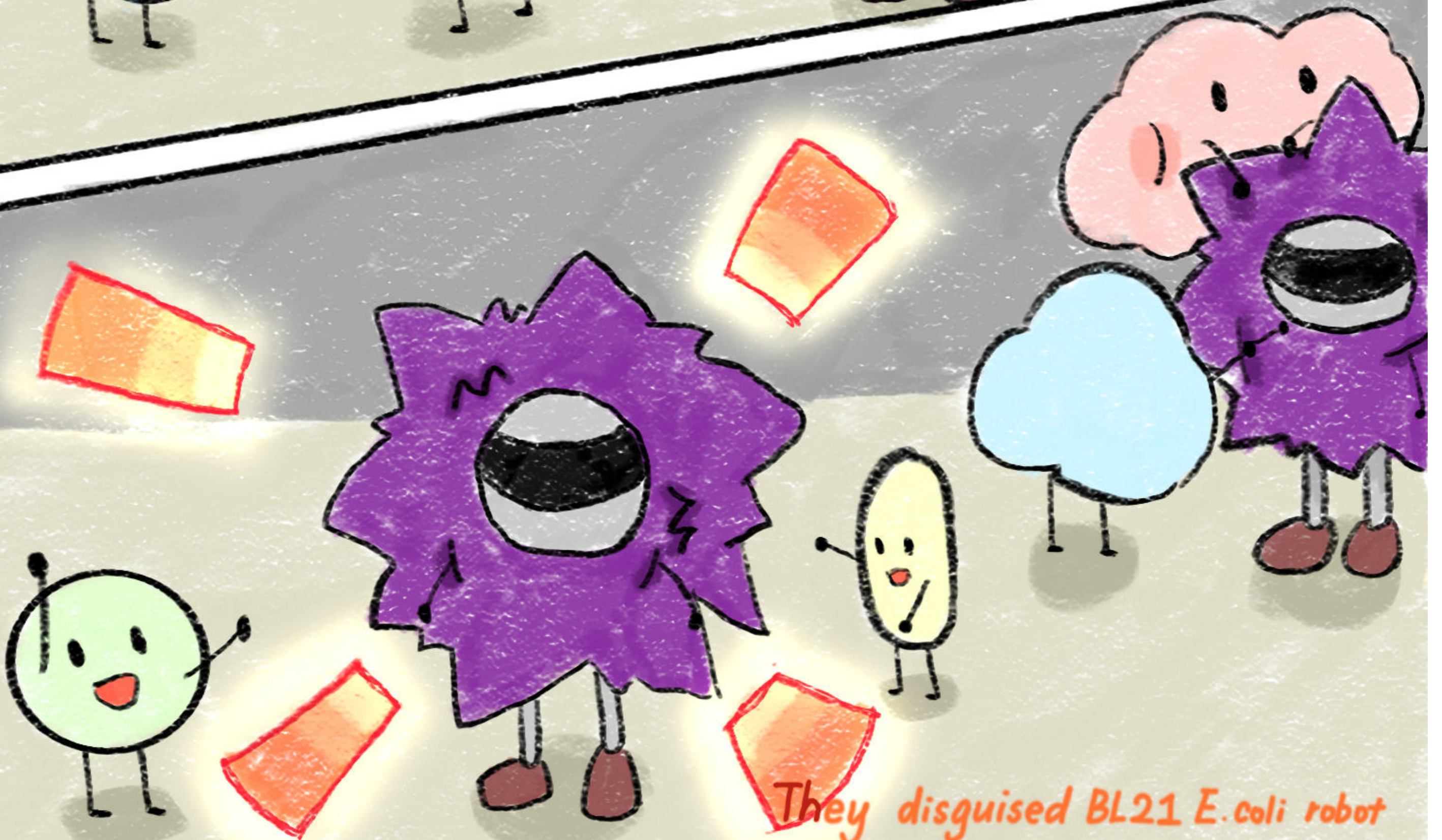
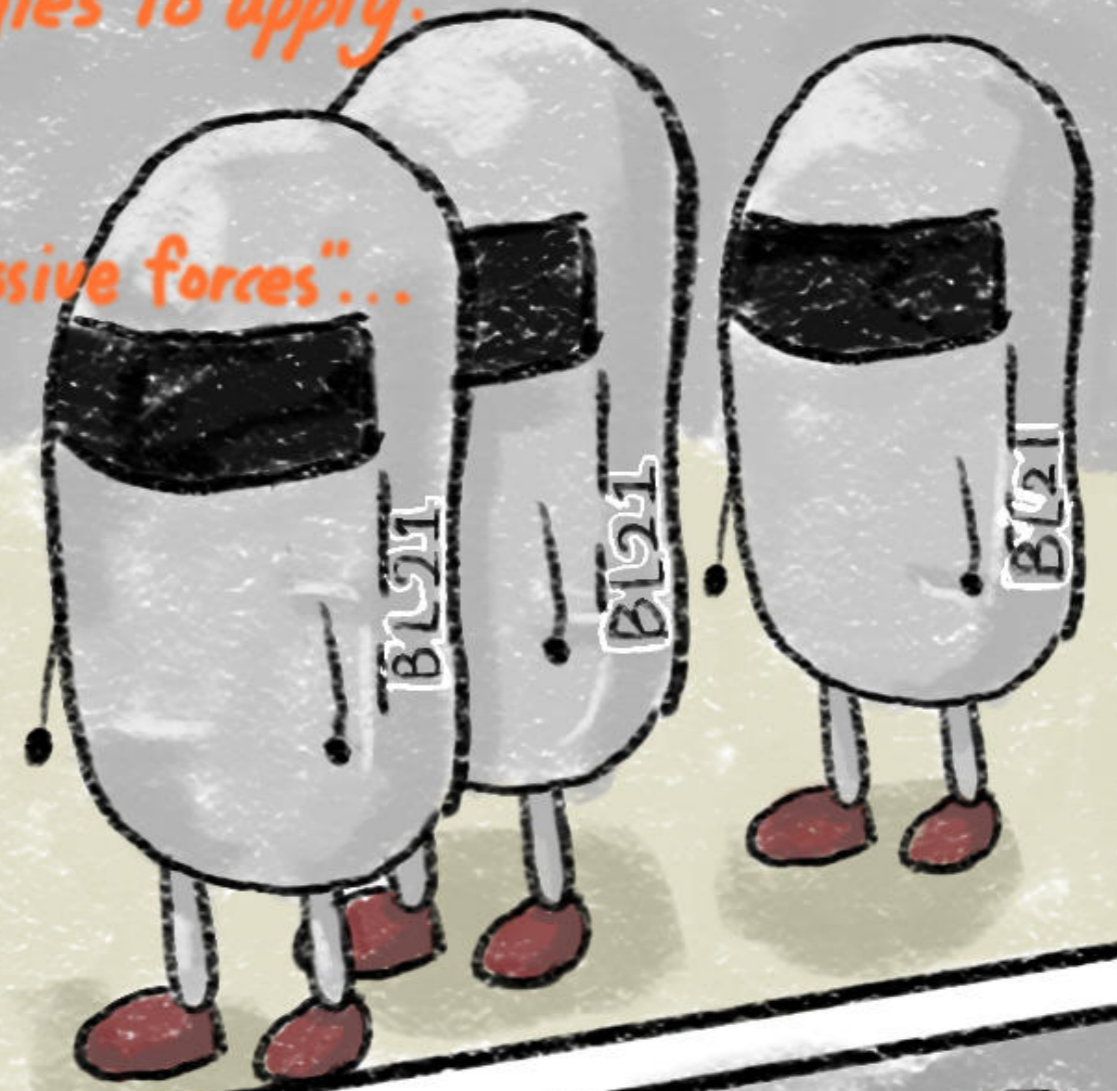
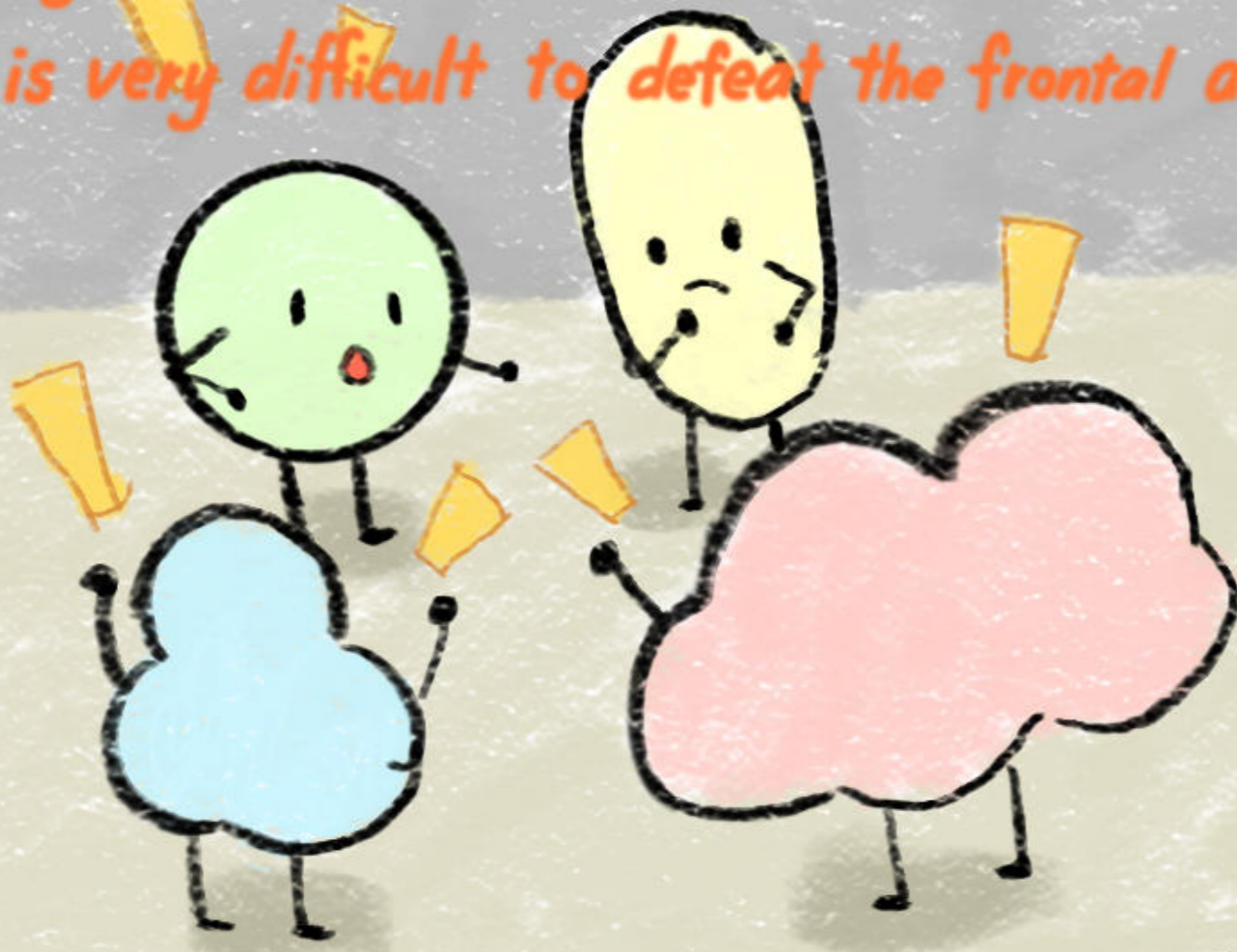
*This time, some bacteria and cells
that are good at thinking and executing
gathered together.*

*They seized the time and produced many
BL21 E. coli robot bacteria.*

*They secretly built a factory with a group of
kind and capable cells.*



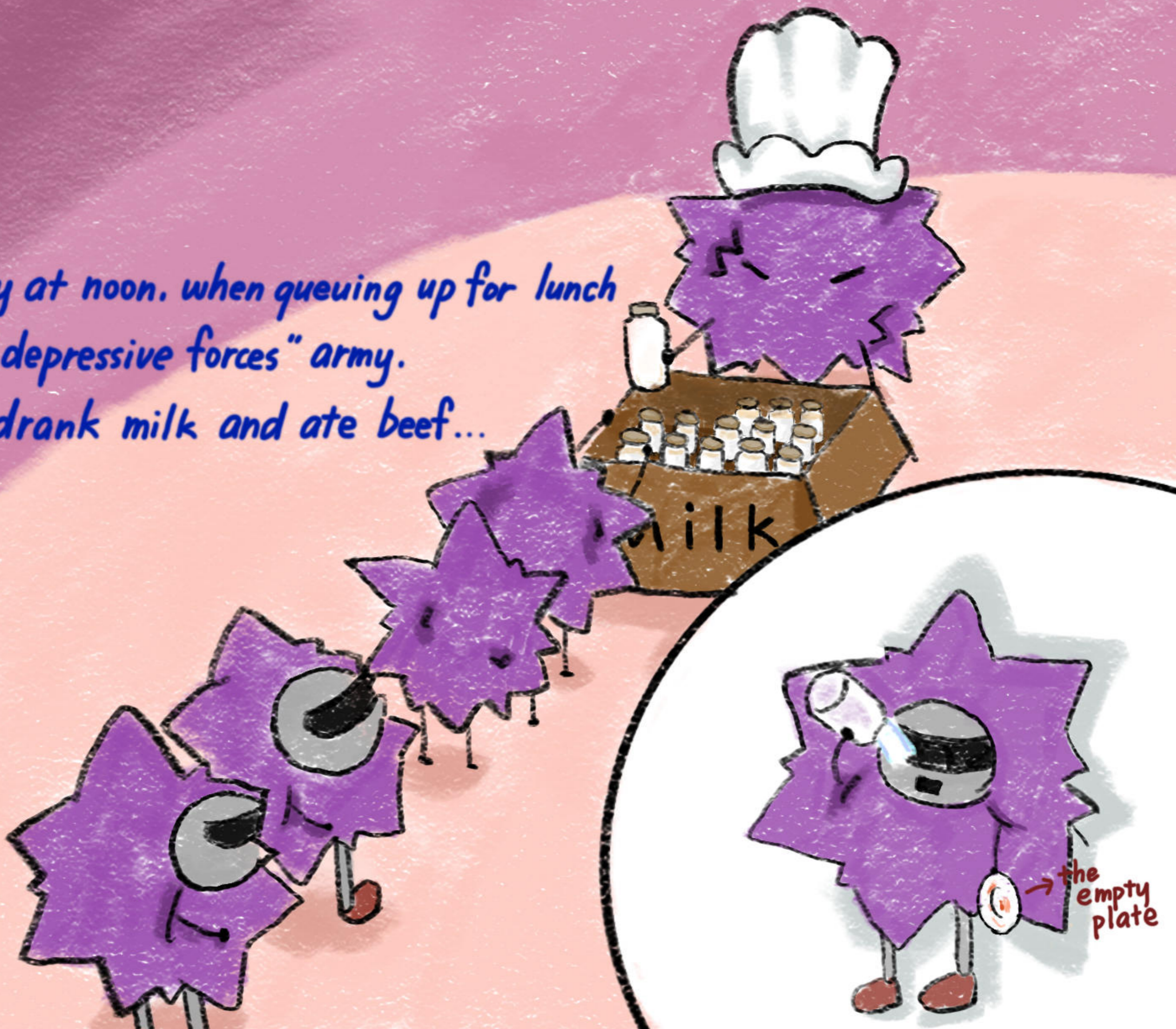
The courageous and ingenious cells discussed strategies to apply.
They know that
it is very difficult to defeat the frontal and "depressive forces"...



They disguised BL21 E.coli robot
bacteria as soldiers of the "depressive force"

BL21's exquisite camouflage deceived the bad soldiers.

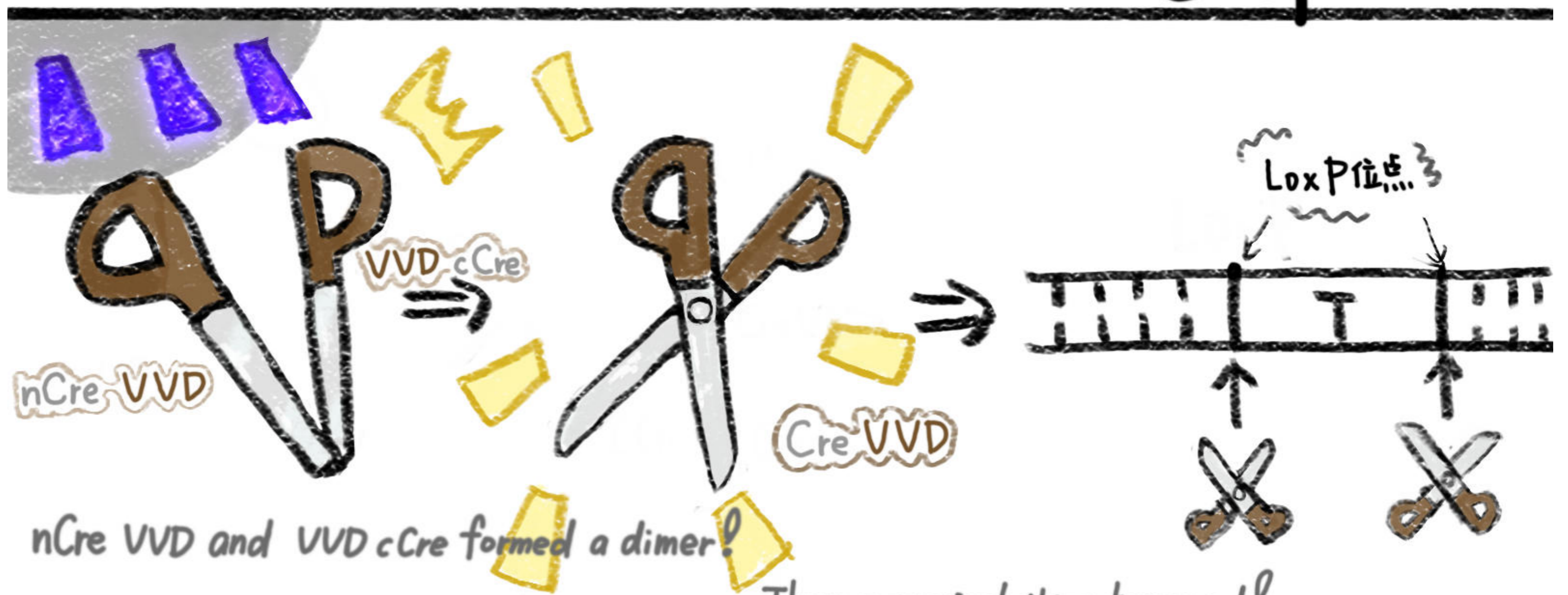
*One day at noon, when queuing up for lunch
in the "depressive forces" army.
BL21 drank milk and ate beef...*



BL21's exquisite was activated by lactoses in the milk!



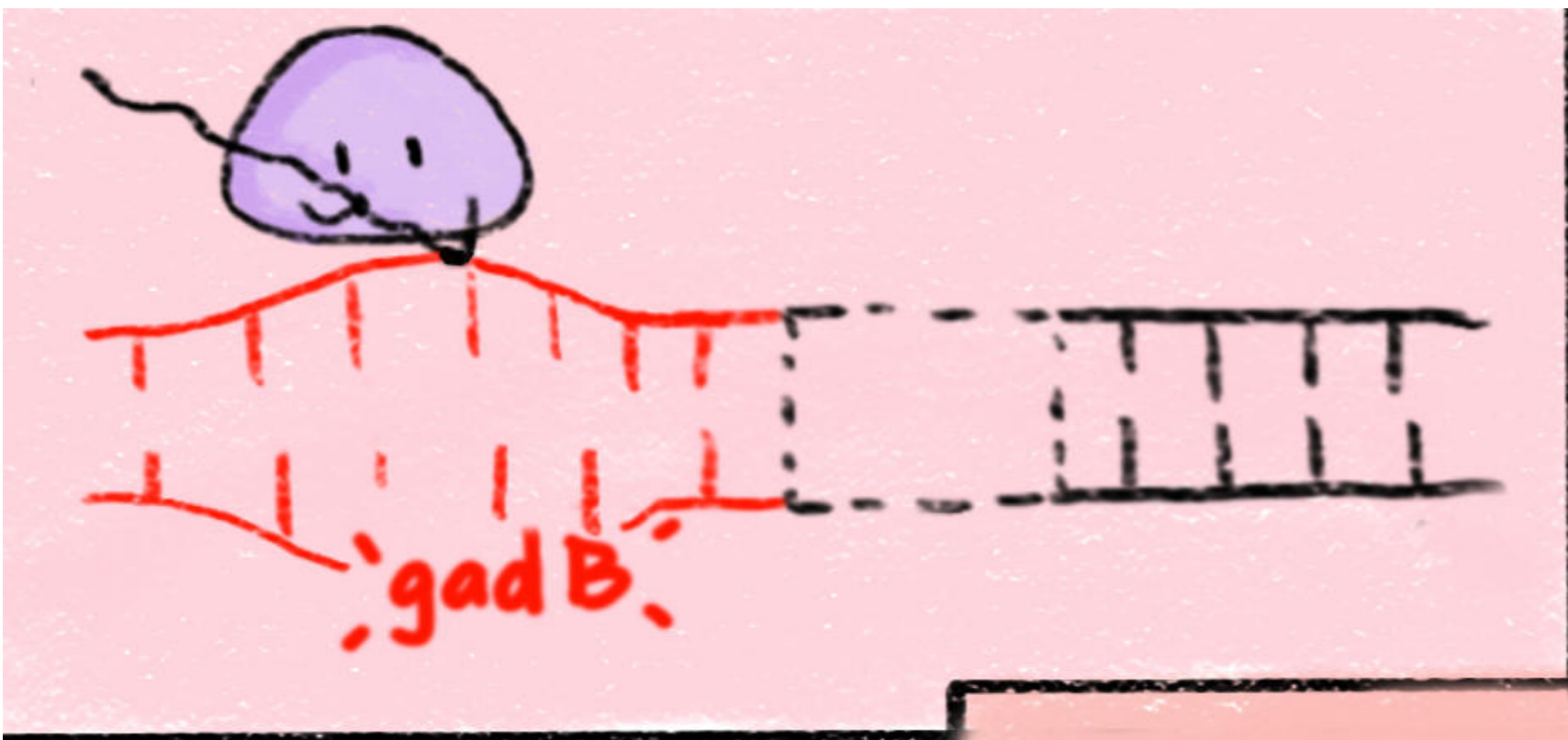
The LuxCDABE light module in BL21 emitted blue light! **Step 1**



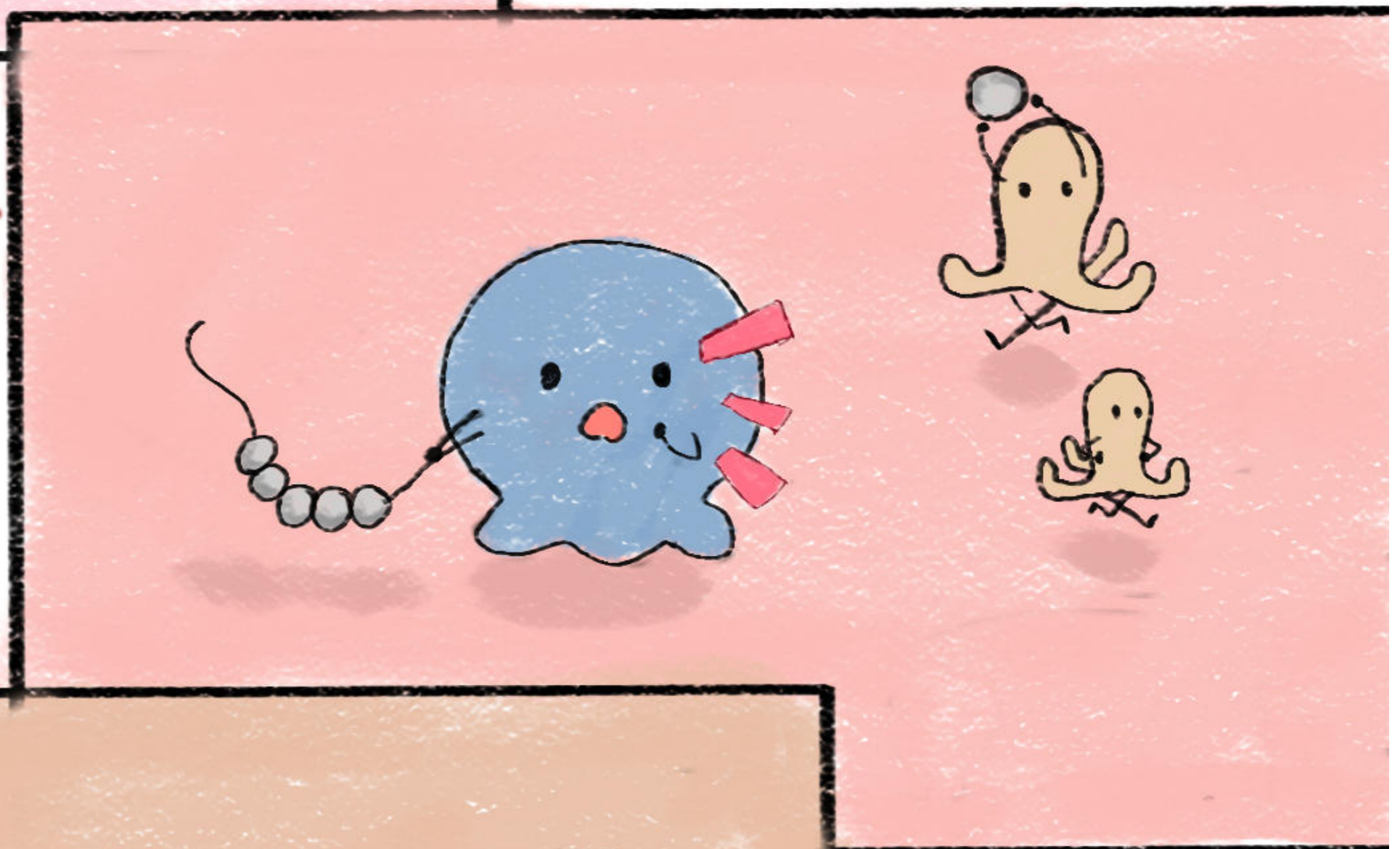
Then a magical thing happened!
Cre recognized LoxP sites like a pair of scissors and cut off the terminator in the middle...

Step 2

Step 3



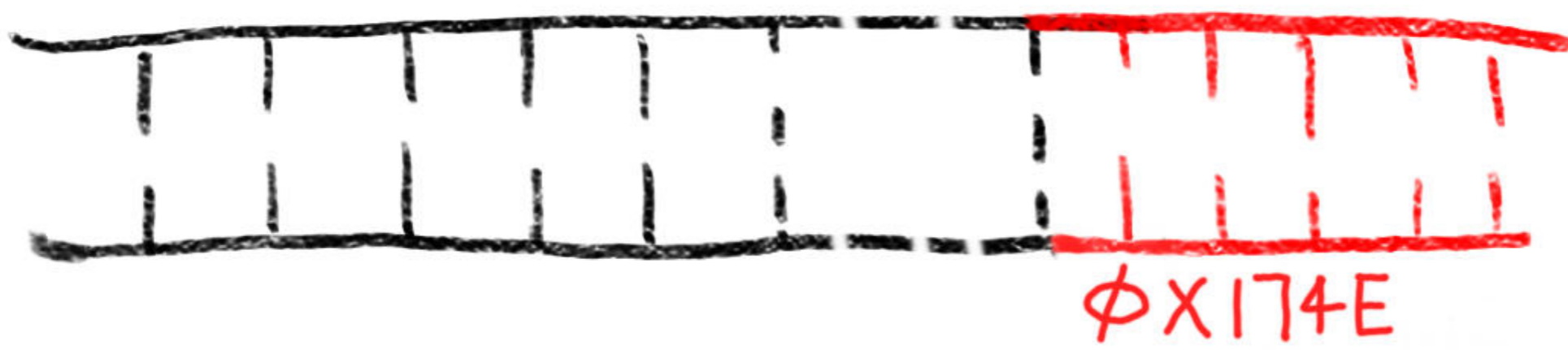
After the terminator was cut off, the GadB enzyme was synthesized!



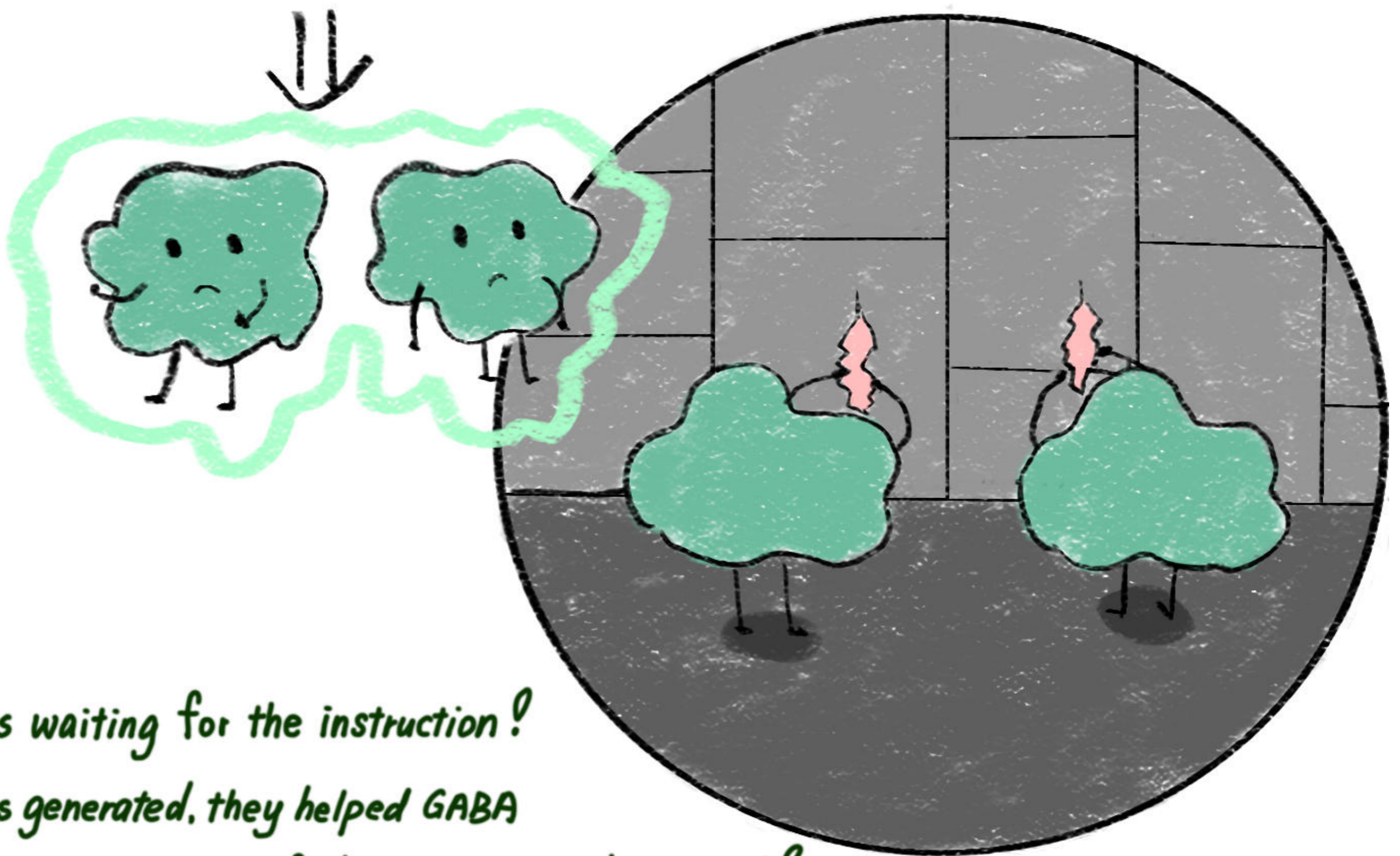
The glutamate in the beef activated the battle mode of BL21!

The nature enemy of the "depressive forces" soldiers — GABA was generated.

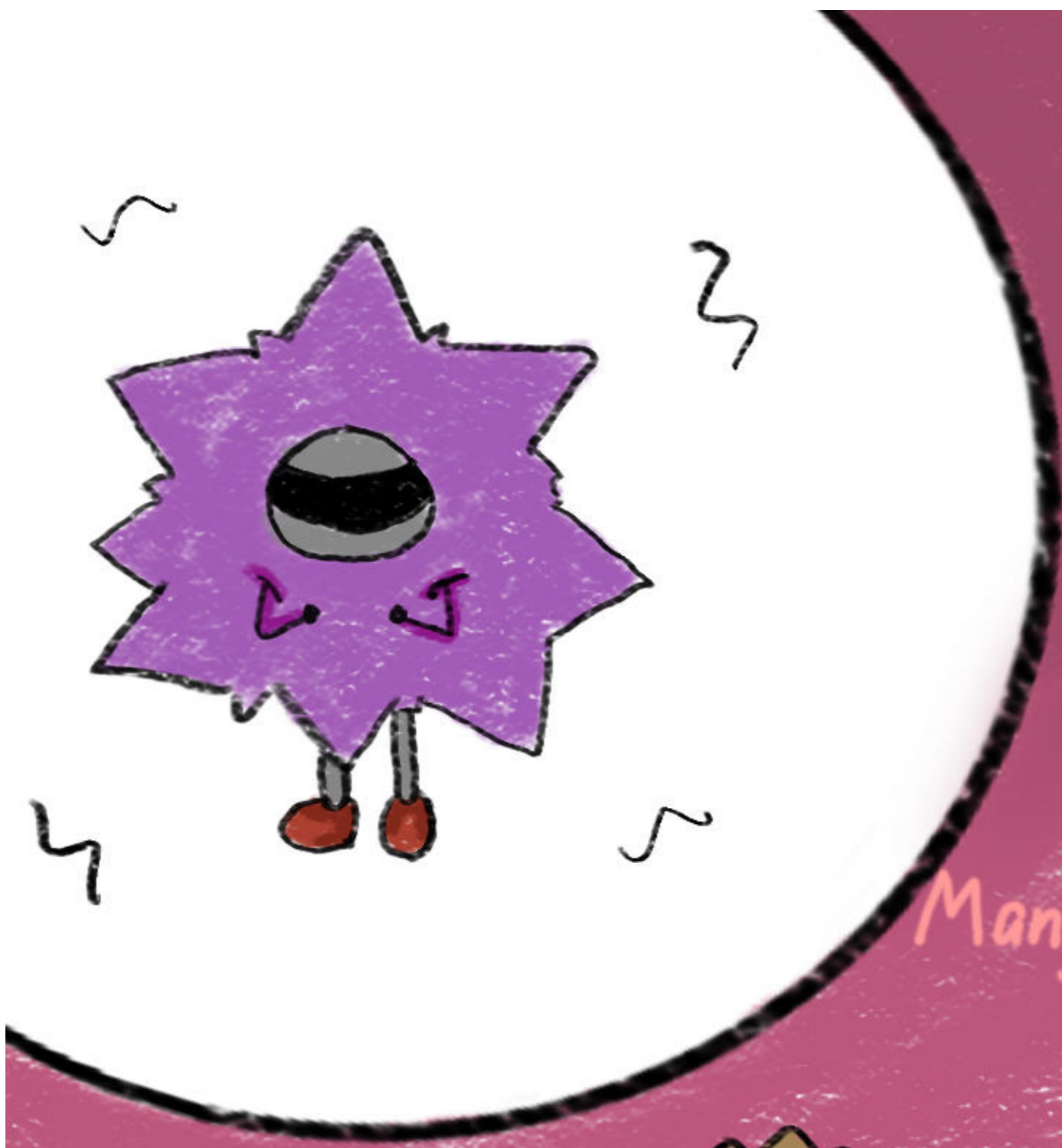
Step 4



* Inside the BL21

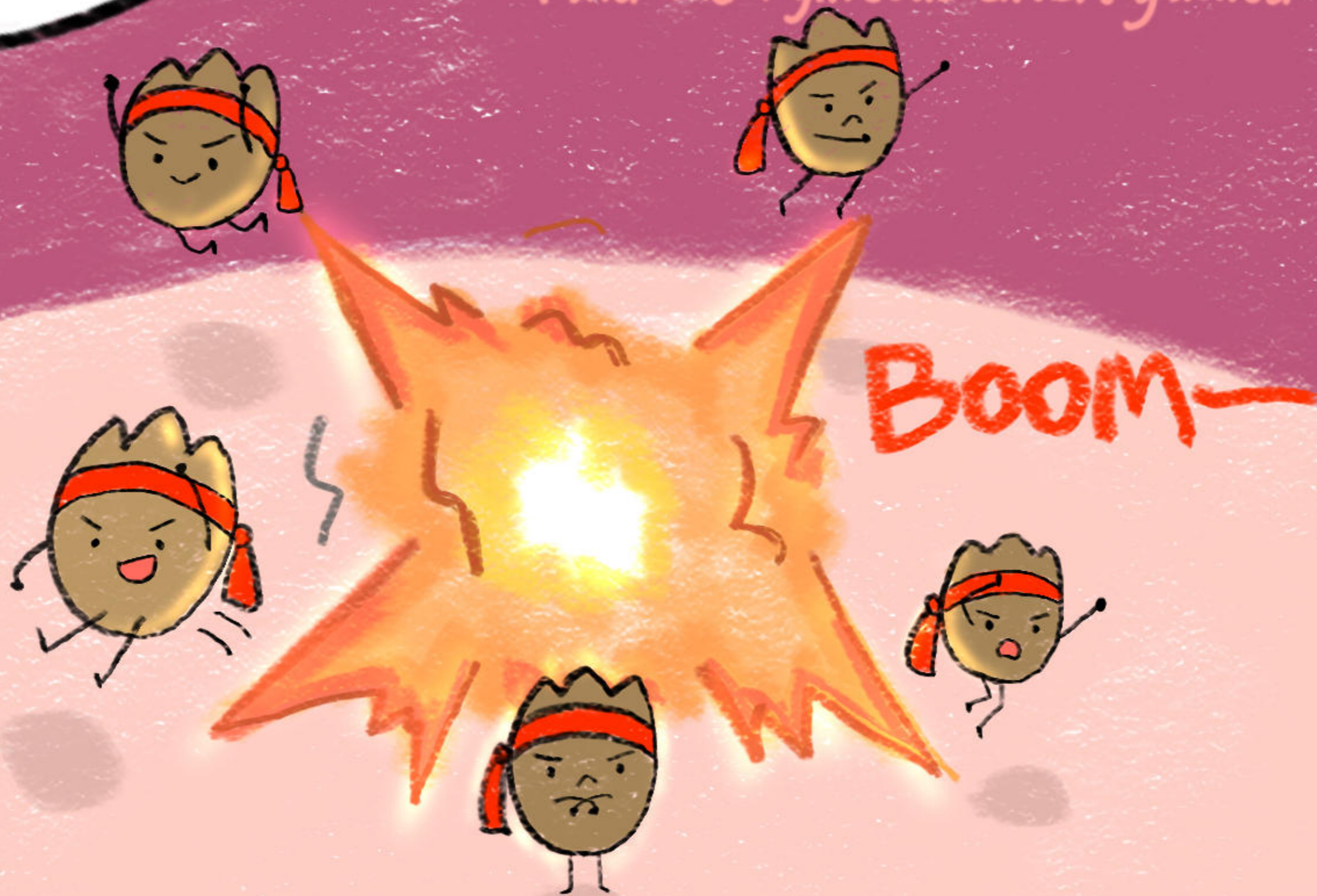


GABA was waiting for the instruction!
φ174E was generated, they helped GABA
leave the robot bacteria to fight in the outside world!

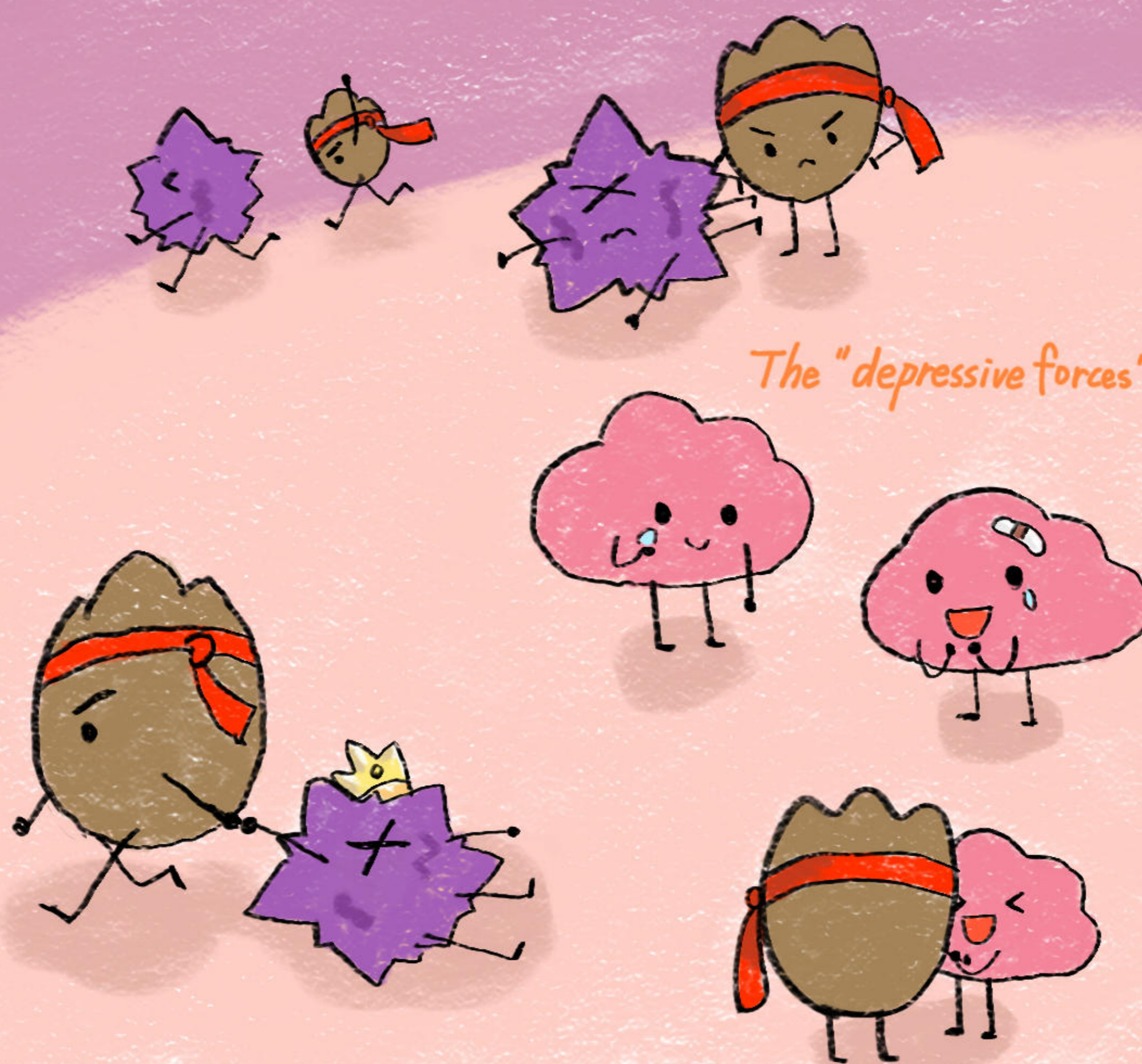


Many robot bacteria burst out

And the righteous GABA gushed out!



GABA cleaned up the "depressive forces" soldiers and the kind-hearted cells that had been taken in custody were rescued by GABA.



The "depressive forces" was wiped out!



*Xiaolan has found her passion and hope for life again,
and she no longer cries by herself!*

END



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