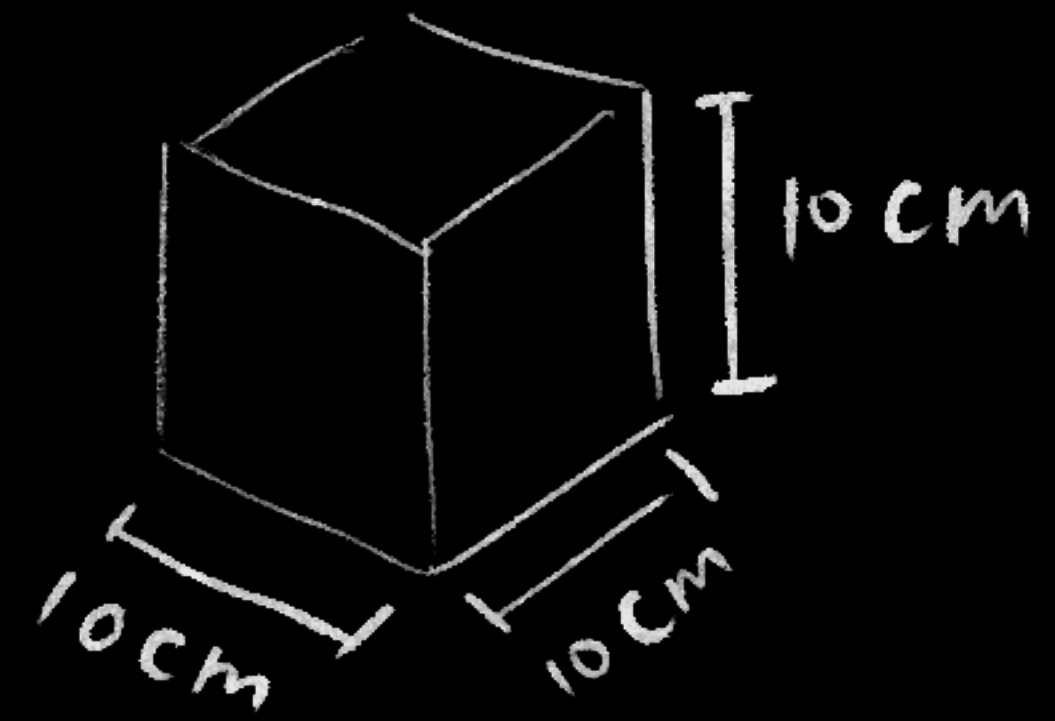


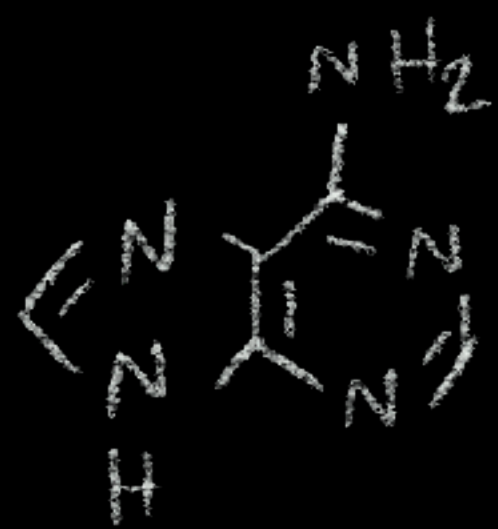




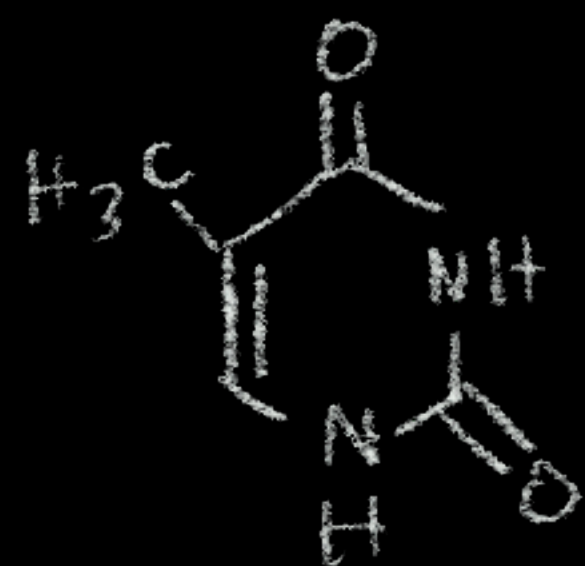




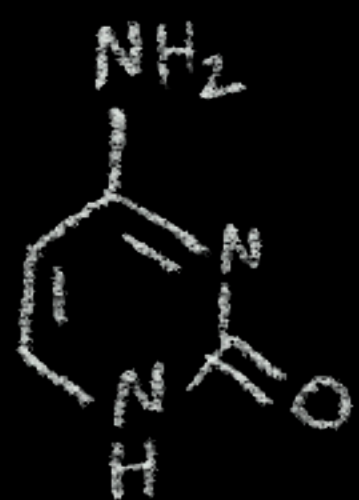




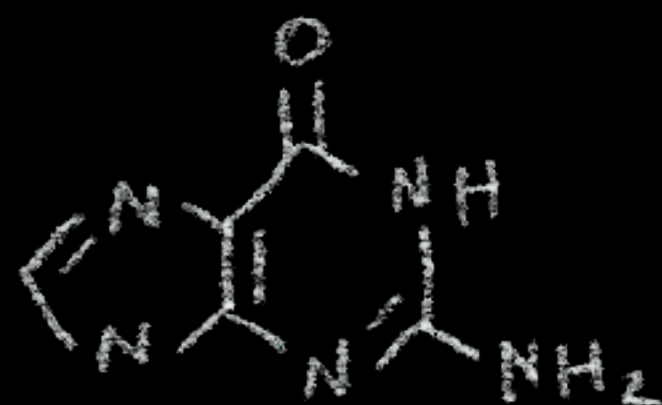
Adenine



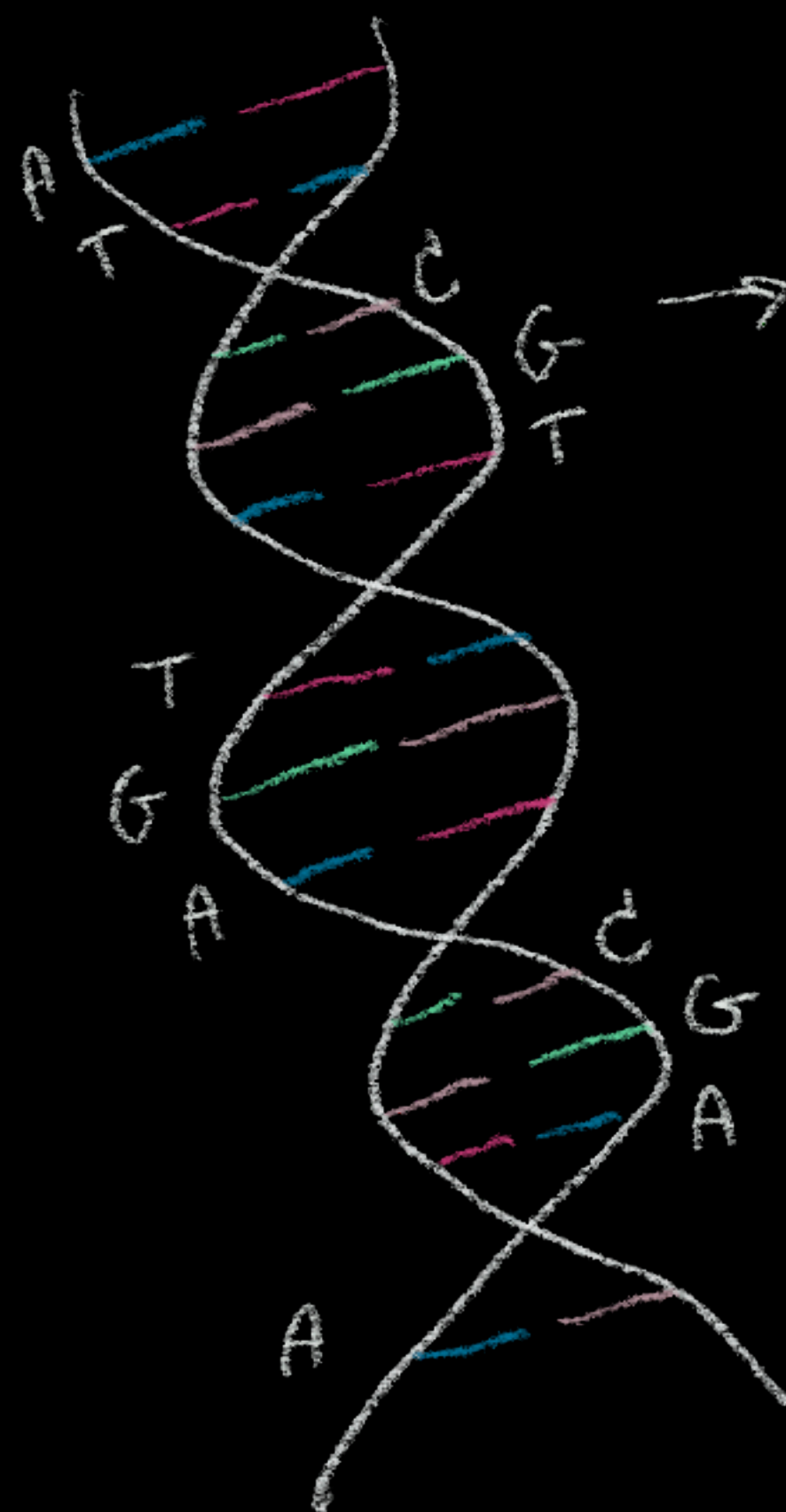
Thymine



Cytosine



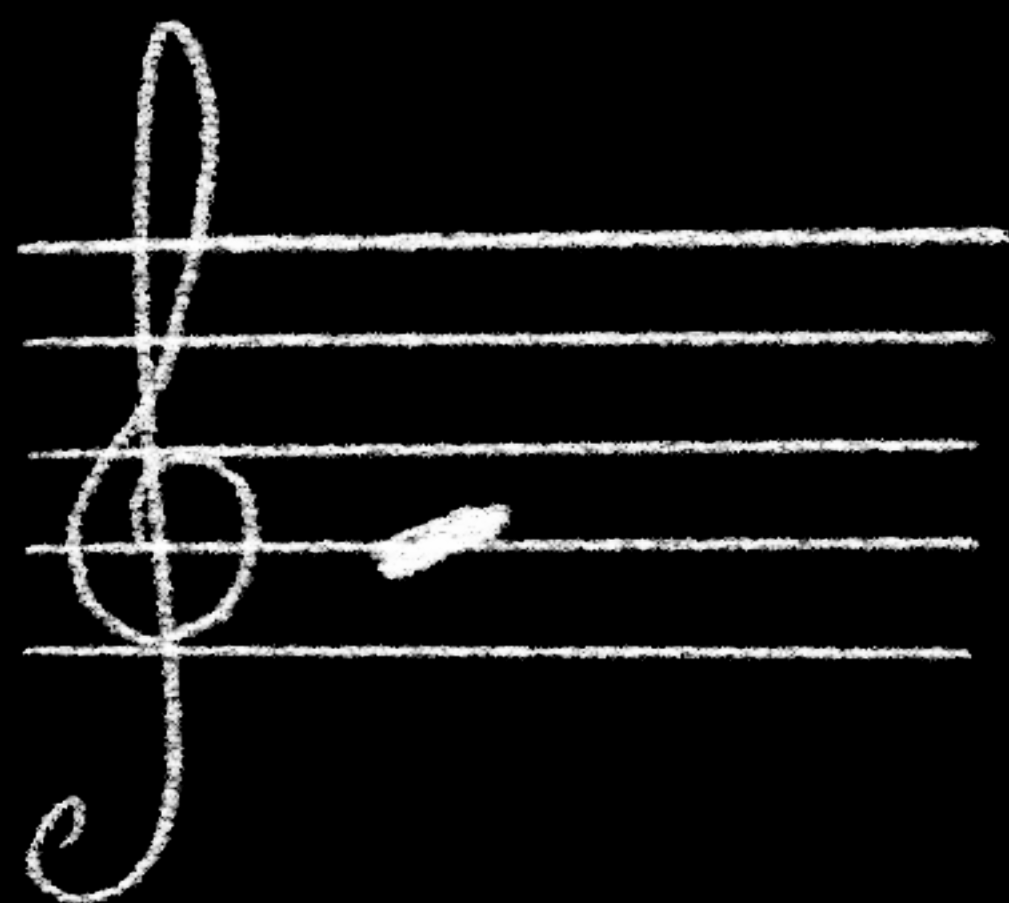
Guanine



→ ATCGTTGACGAA...

01001110...





Pitch



G₄

-



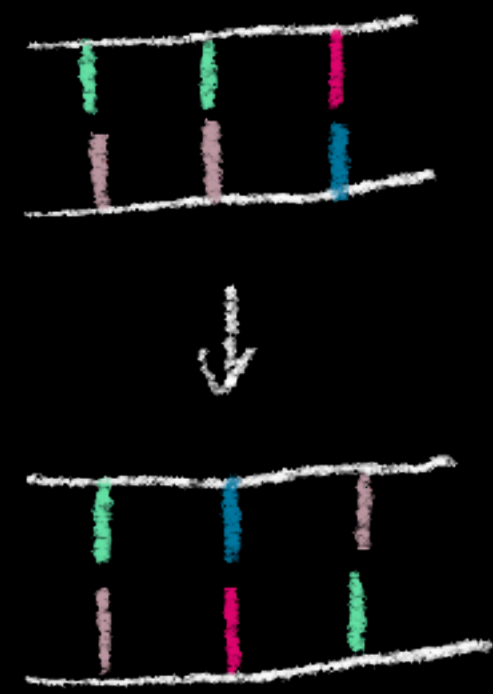
x 4



Duration

① easily mutated

e.g.

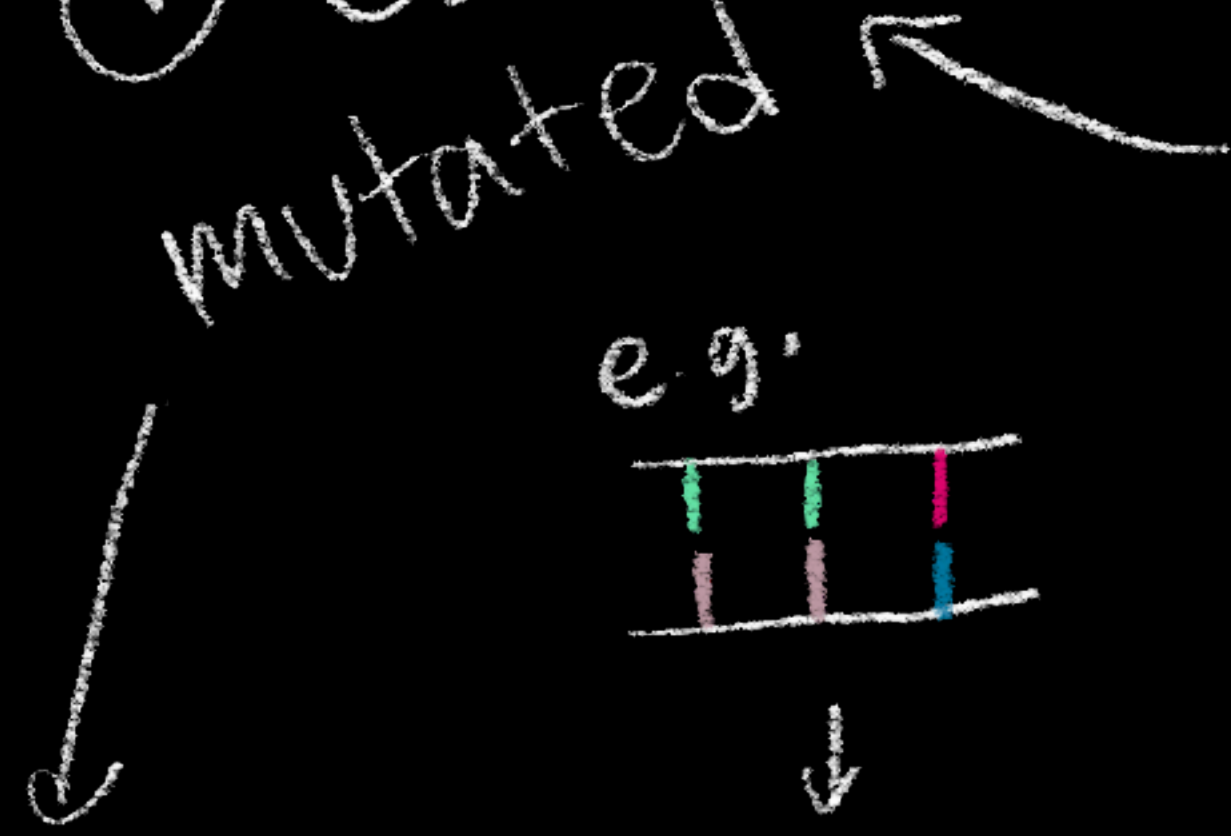


Gc-content

sequencing error

②

① easily mutated



e.g.



error correction



data



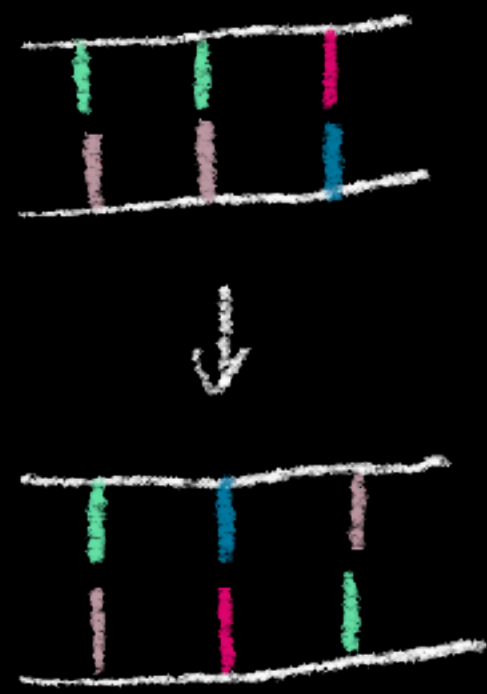
Gc-content

sequencing error

②

① easily mutated

e.g.



error correction



data



Gc-content

sequencing error

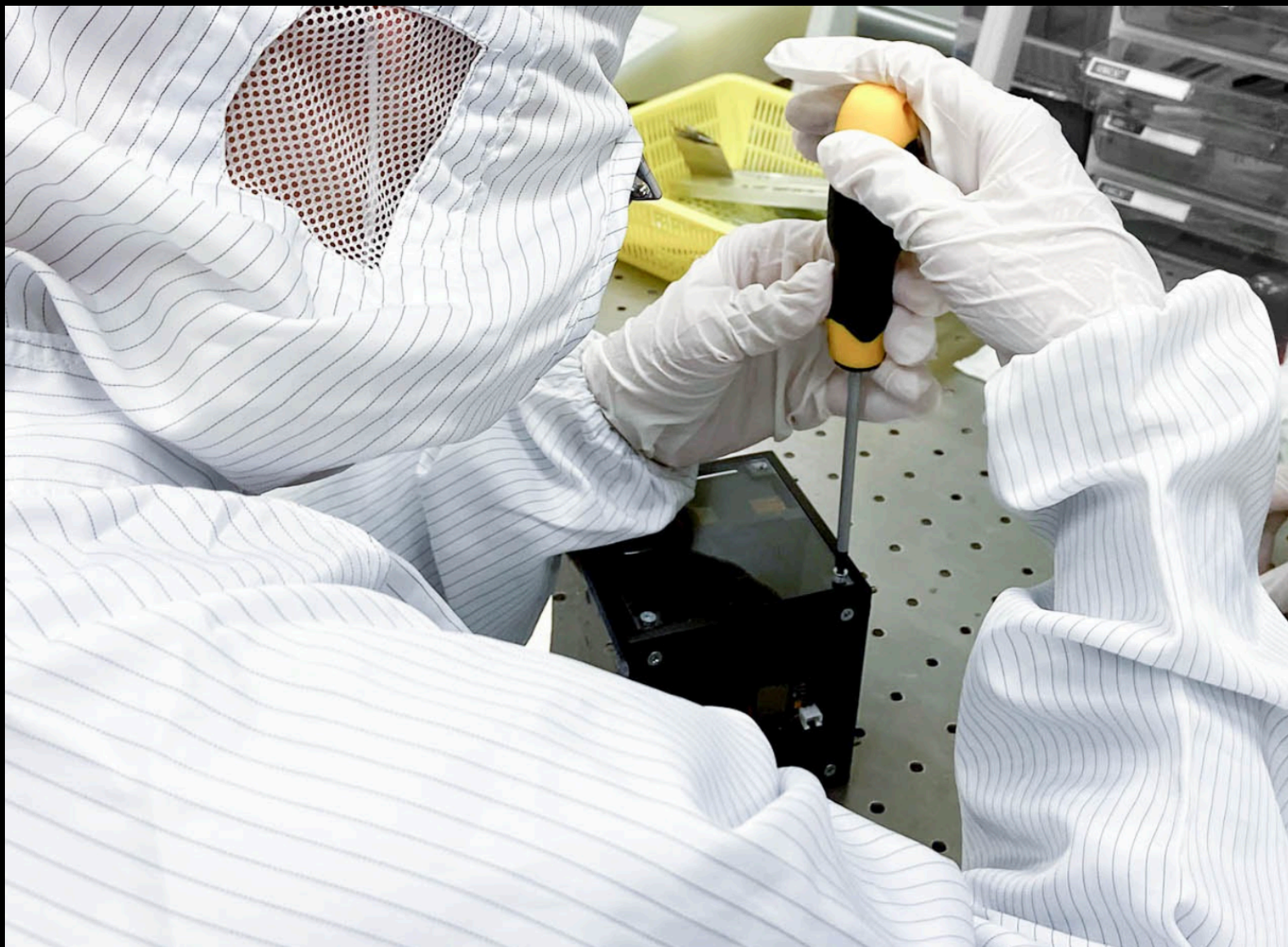
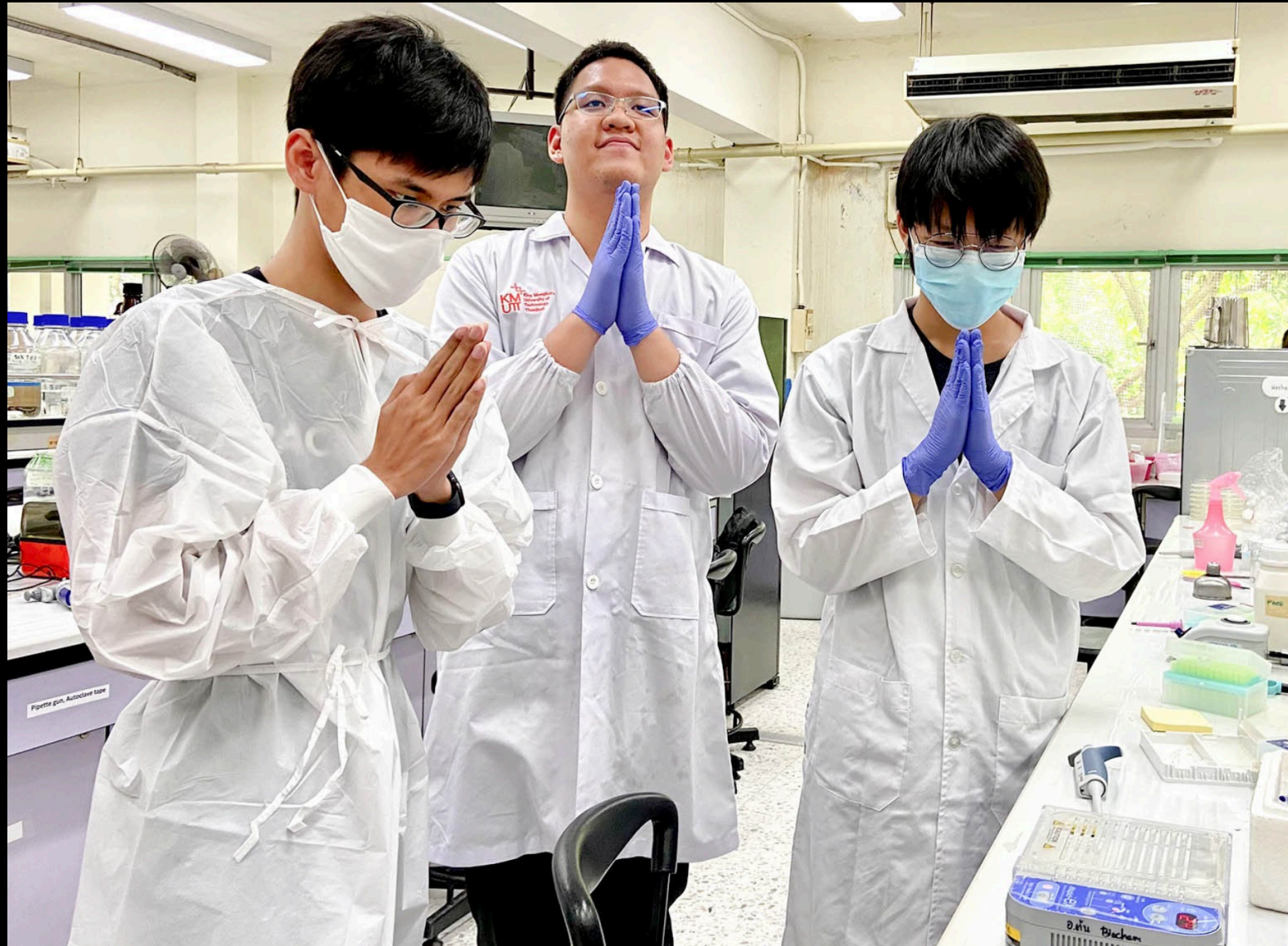
②

pseudo-random data

data



result



PAST → PRESENT → FUTURE



PAST → PRESENT → FUTURE



PAST → PRESENT → FUTURE





PAST



PRESENT



FUTURE





PAST → PRESENT



FUTURE



1



