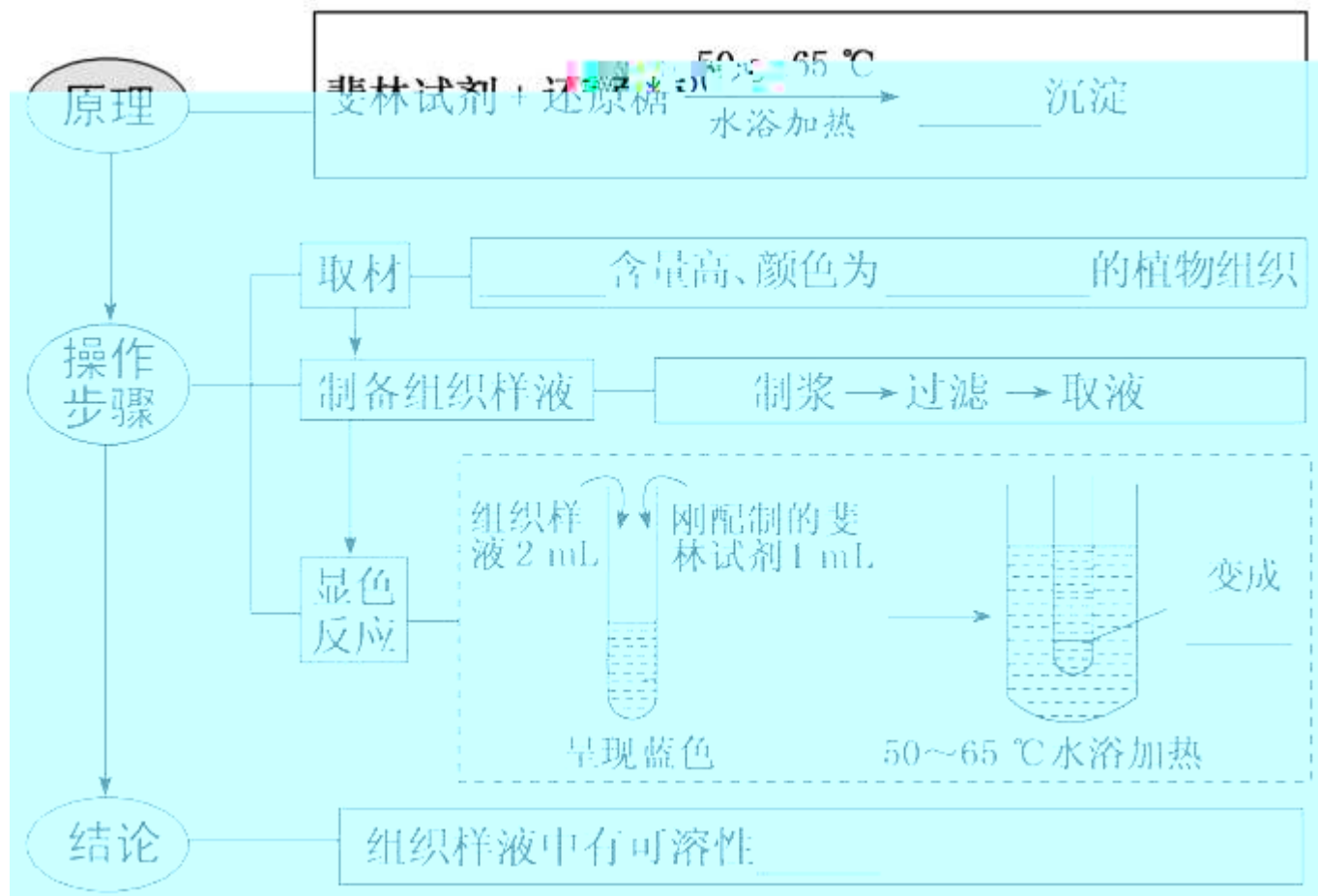


3-

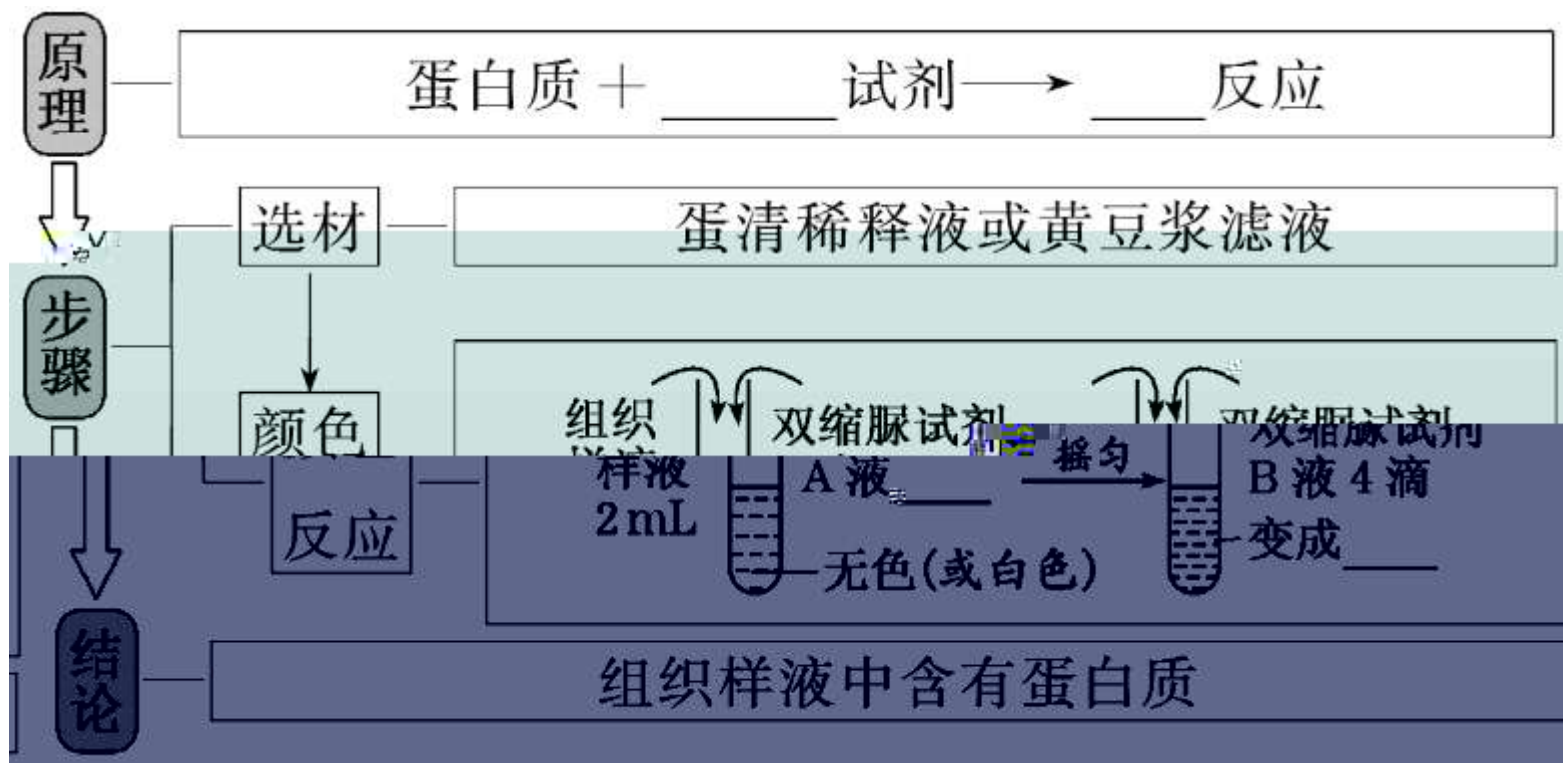
## ——物质检测

### 还原糖的检测



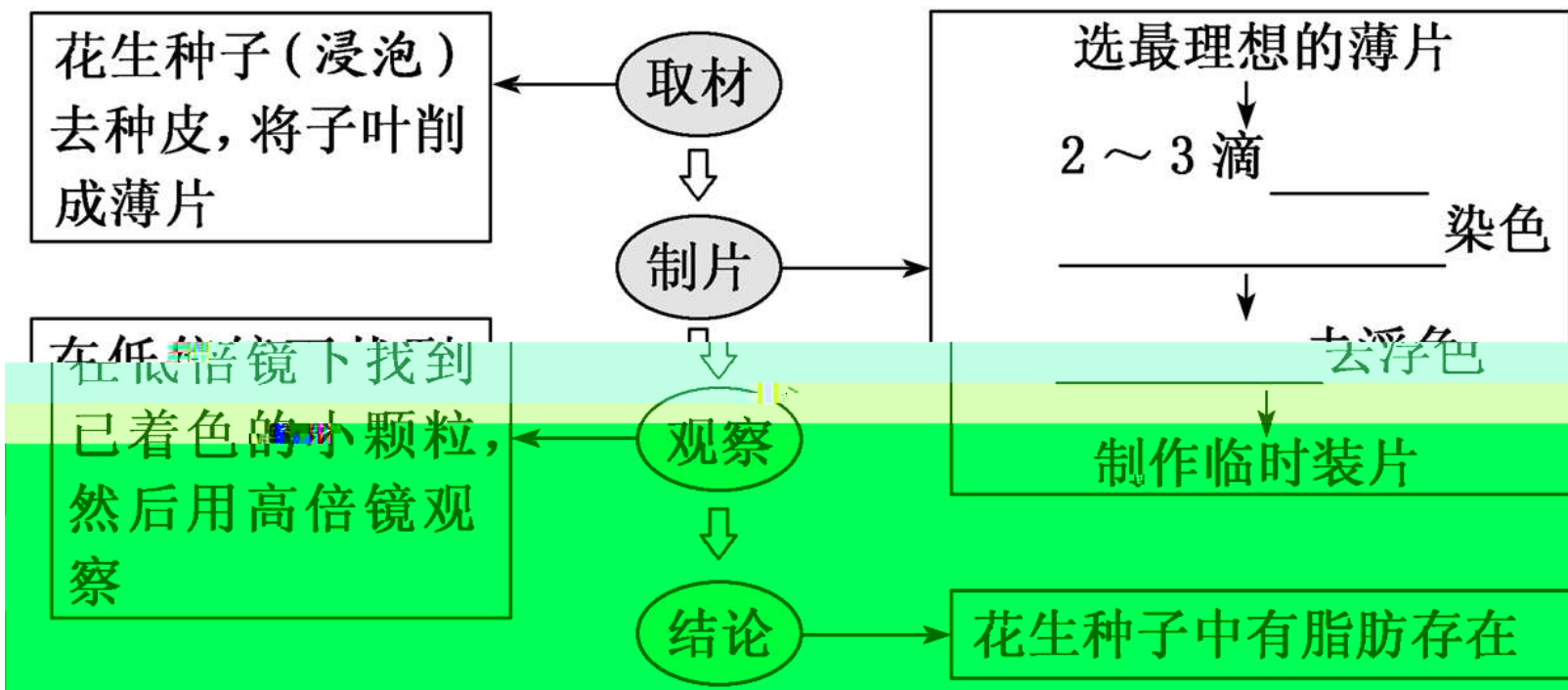
## 蛋白质的检测

## ——物质检测



## ——物质检测

### 脂肪的检测



# ——物质检测



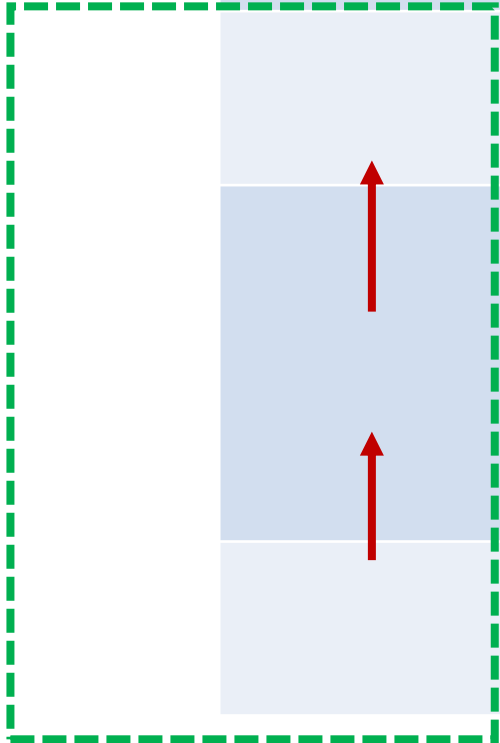
1

## ——物质检测

DNA RNA			
CO <sub>2</sub>			

1

# ——物质检测

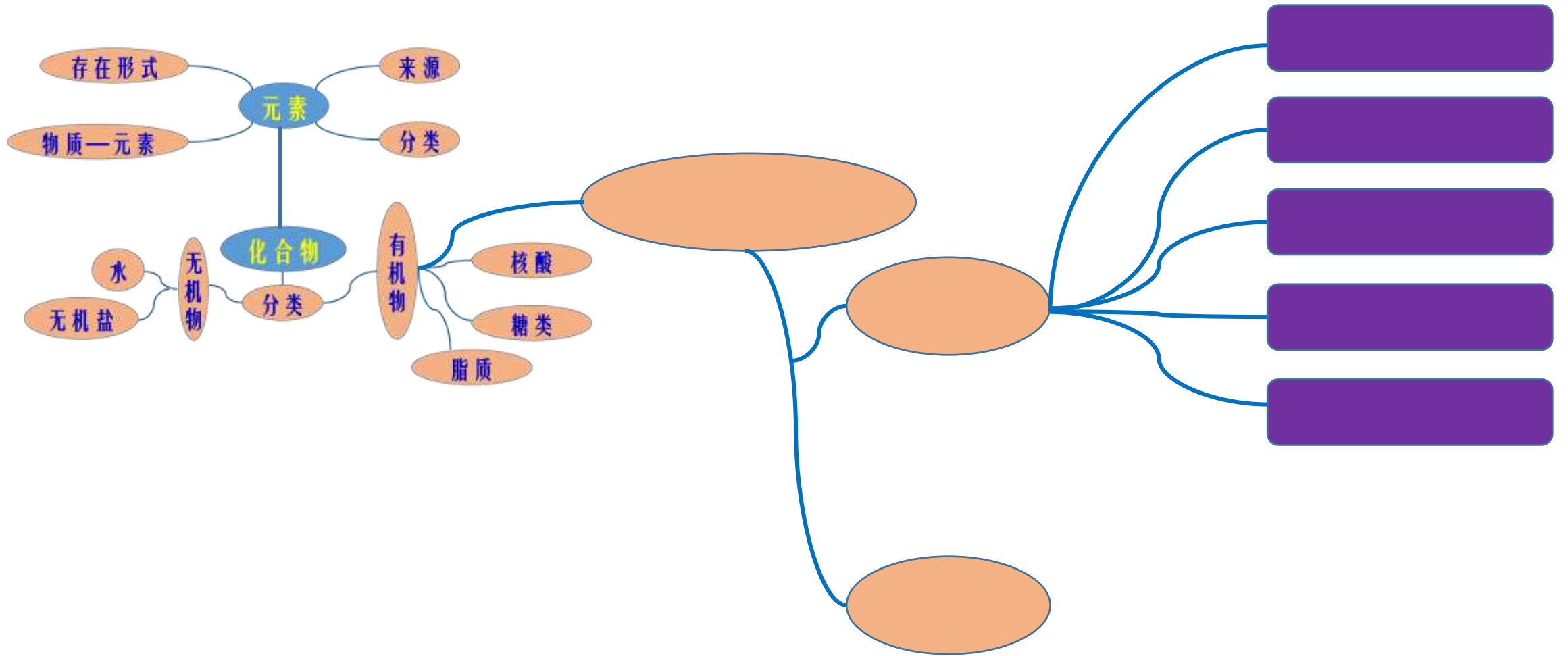


6. 2020

0.1 / NaOH      0.01 / CuSO<sub>4</sub>



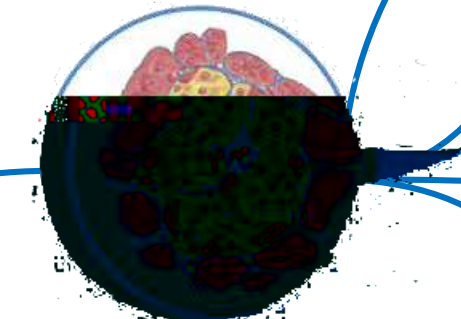
1





蛋白质

结构



[Blank purple box]

[Blank purple box]

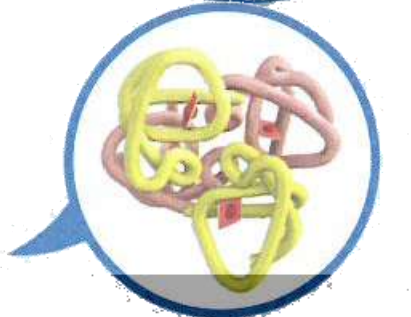
[Blank purple box]

[Blank purple box]

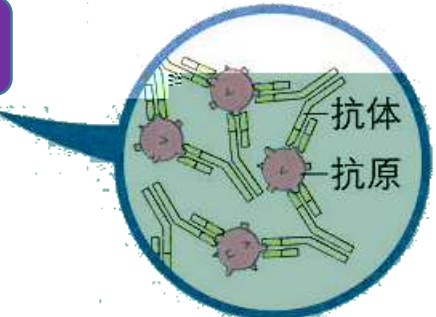
[Blank purple box]



细胞中的化学反应离不开酶的催化。绝大多数酶都是蛋白质（图为胃蛋白酶结晶）。

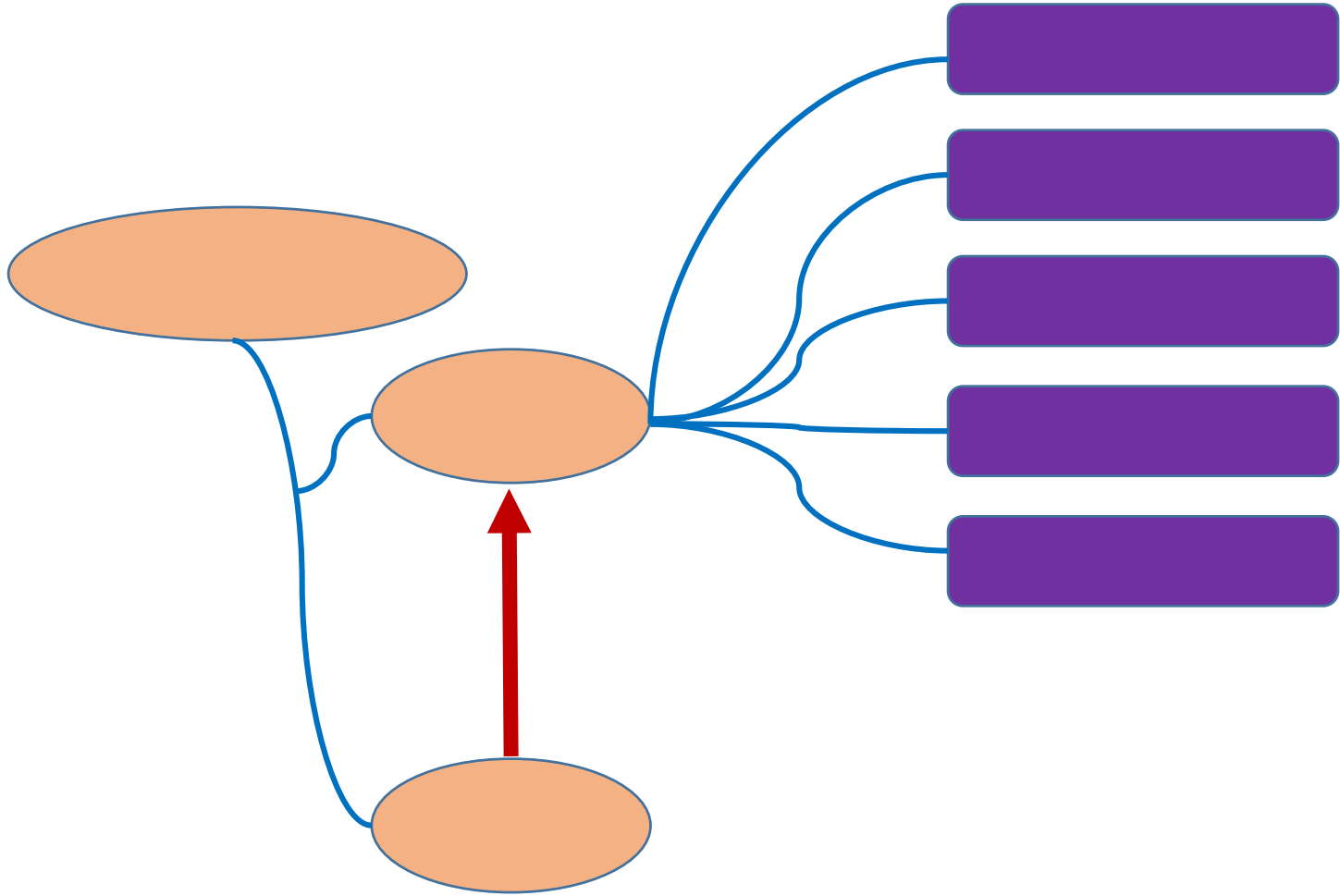


有些蛋白质具有运输功能（图为血红蛋白示意图，能运输氧）。

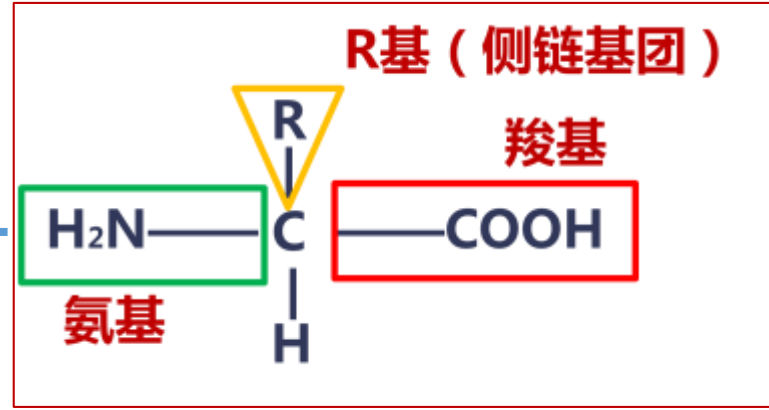
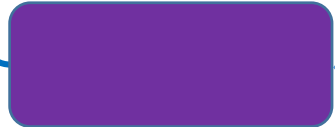
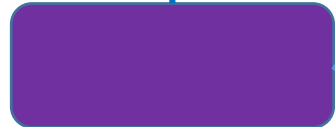
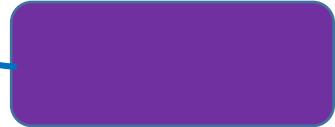
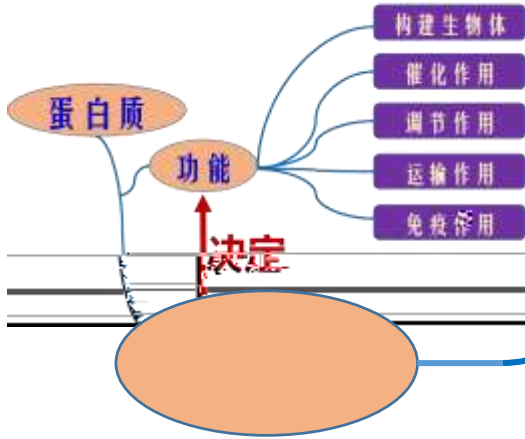


有些蛋白质有免疫功能。人体内的抗体是蛋白质，可以帮助人体抵御病菌和病毒等抗原的侵害。

1



1



C H O N

S

必需氨基酸

缬氨酸 蛋 (甲硫) 氨酸

异亮氨酸 色氨酸

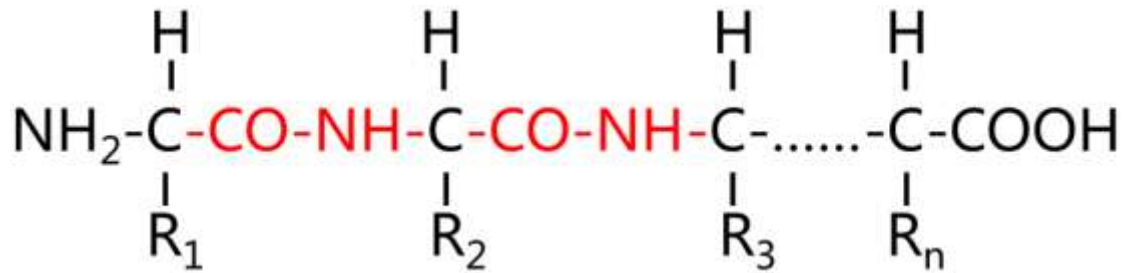
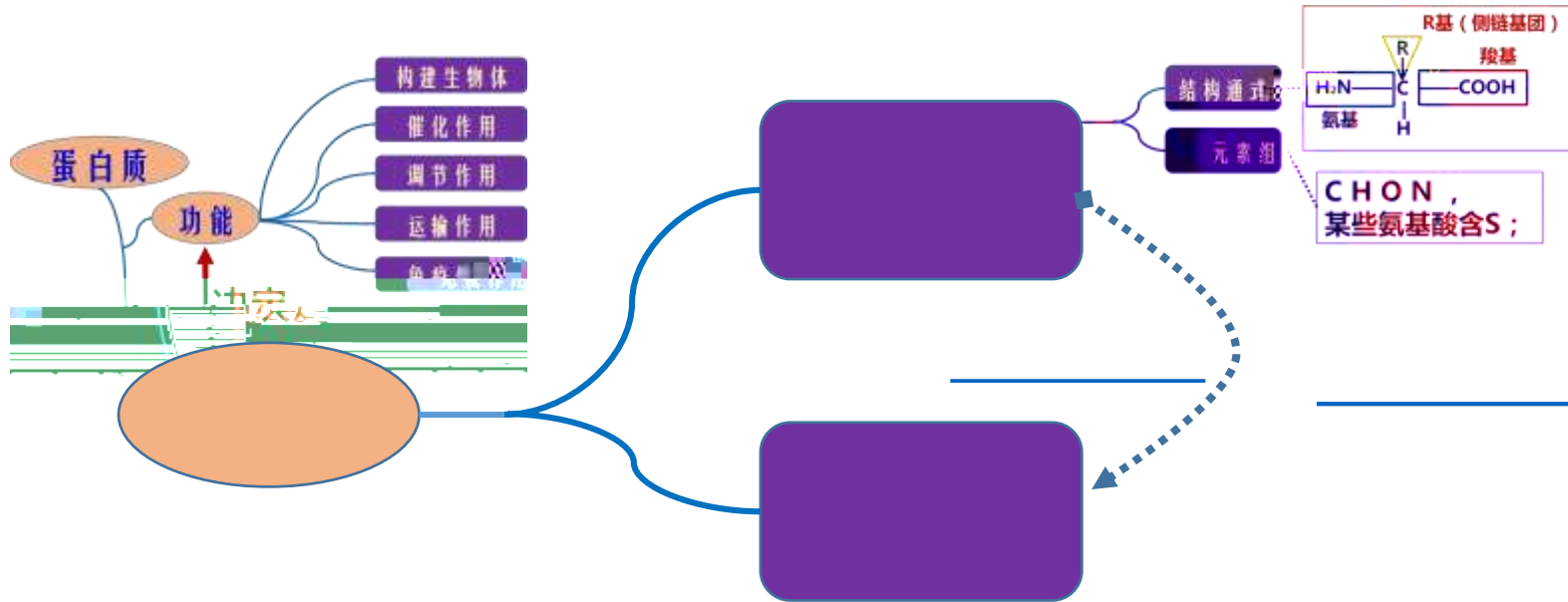
亮氨酸 苯丙氨酸

苯丙氨酸 赖氨酸

1

1/

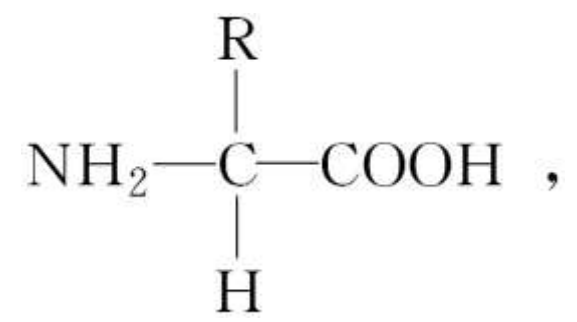
1



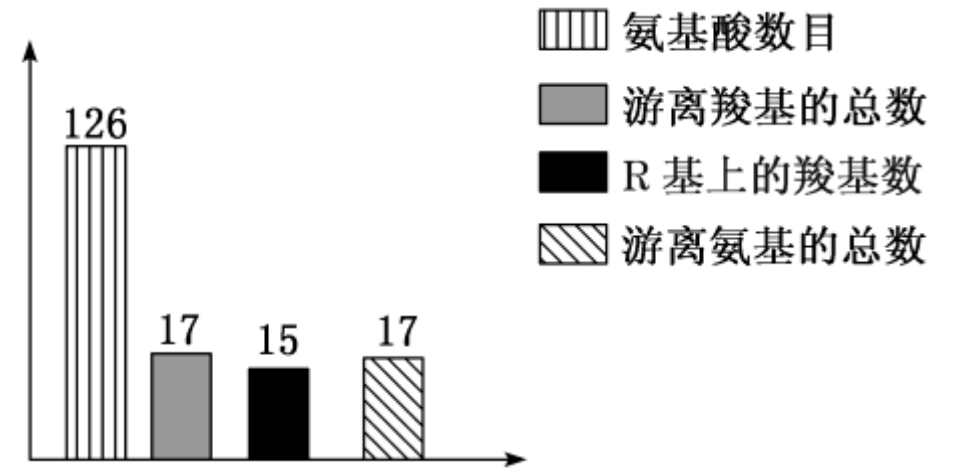
1

2/

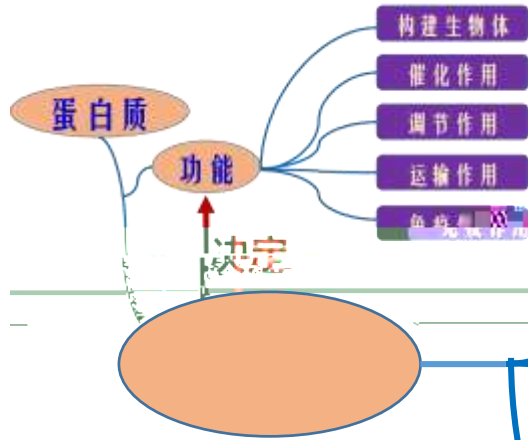
3/



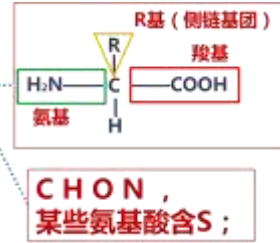








结构通式  
元素组成

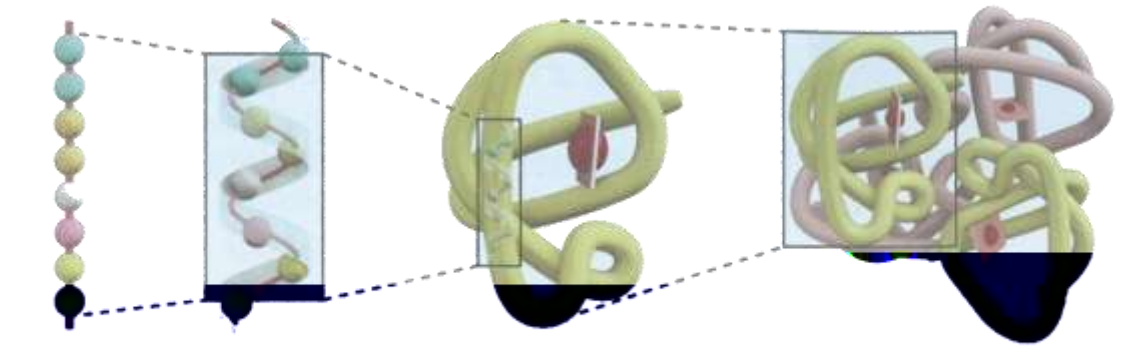


发生脱水缩合需要什么条件?

模板: tRNA: 原料: 能量:

如何确定氨基酸的排列顺序?

以mRNA为模板, 上有密码子以  
确定氨基酸的排列顺序:



氨基酸之间脱水缩合形成肽链

一条肽链的特定区域进行有规律的盘曲折叠

这条肽链进一步盘绕形成一定的空间结构

多条肽链聚集在一起形成复杂的空间结构

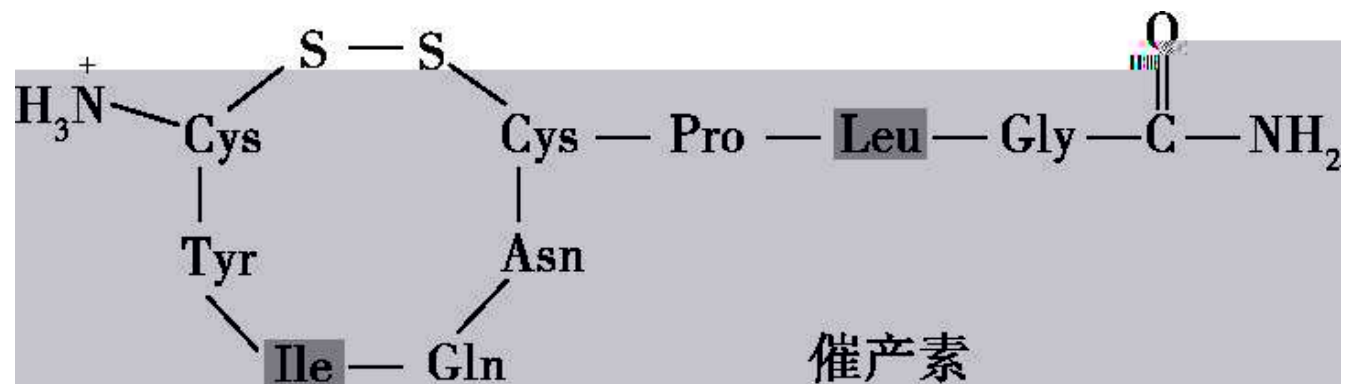
1

4/

3 (2018 ,5,2 )

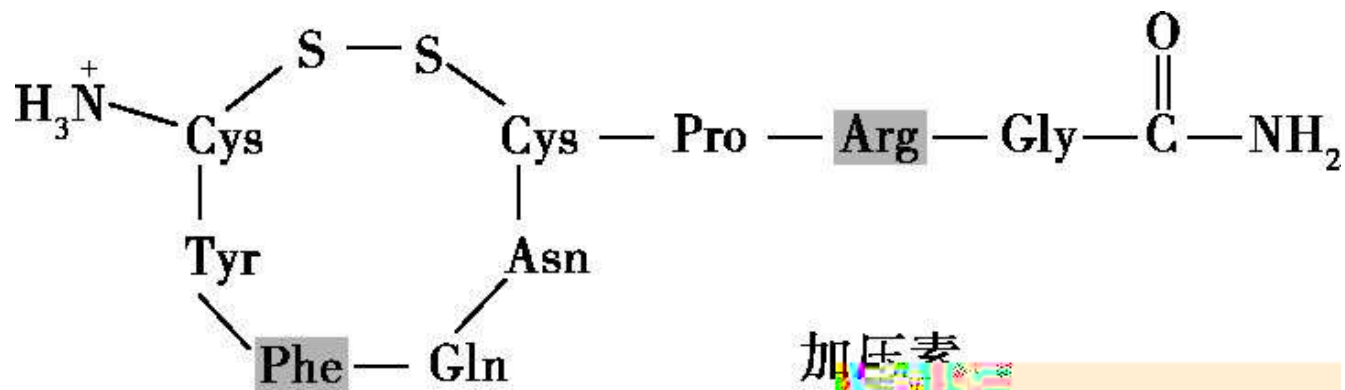
3

A.



B.

C.



D.

2

D

,

,

,A ;

,B ;

R

,

,C ;

2

,

,

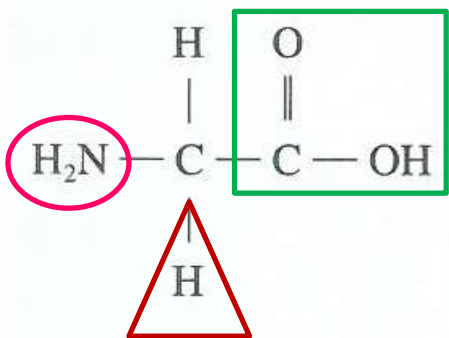
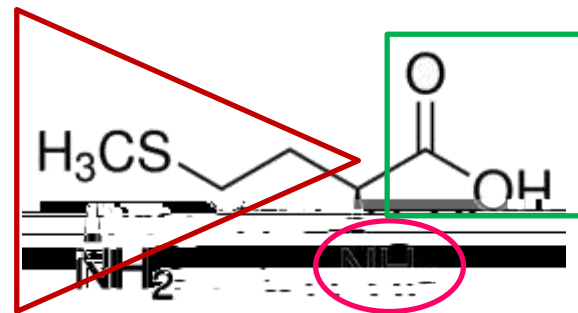
,D

1

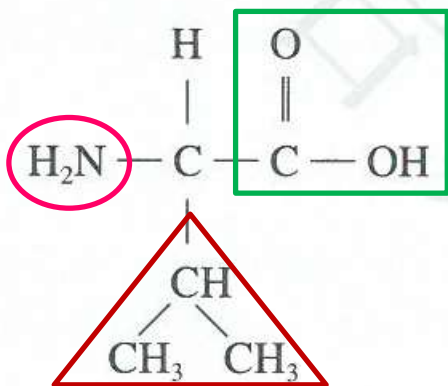
思考·讨论

氨基酸的结构特点

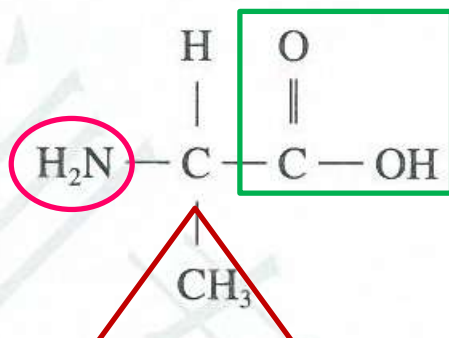
观察下列几种氨基酸的结构。



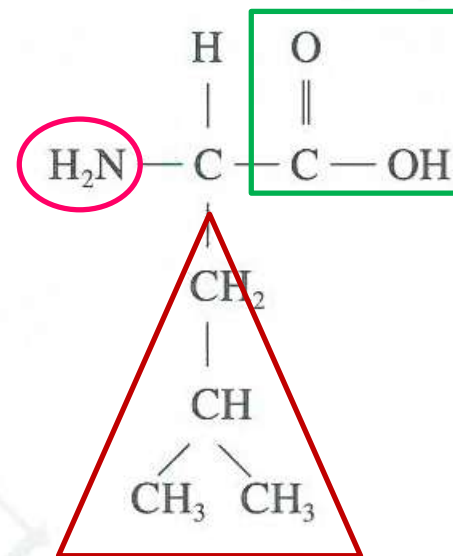
甘氨酸



缬氨酸



丙氨酸



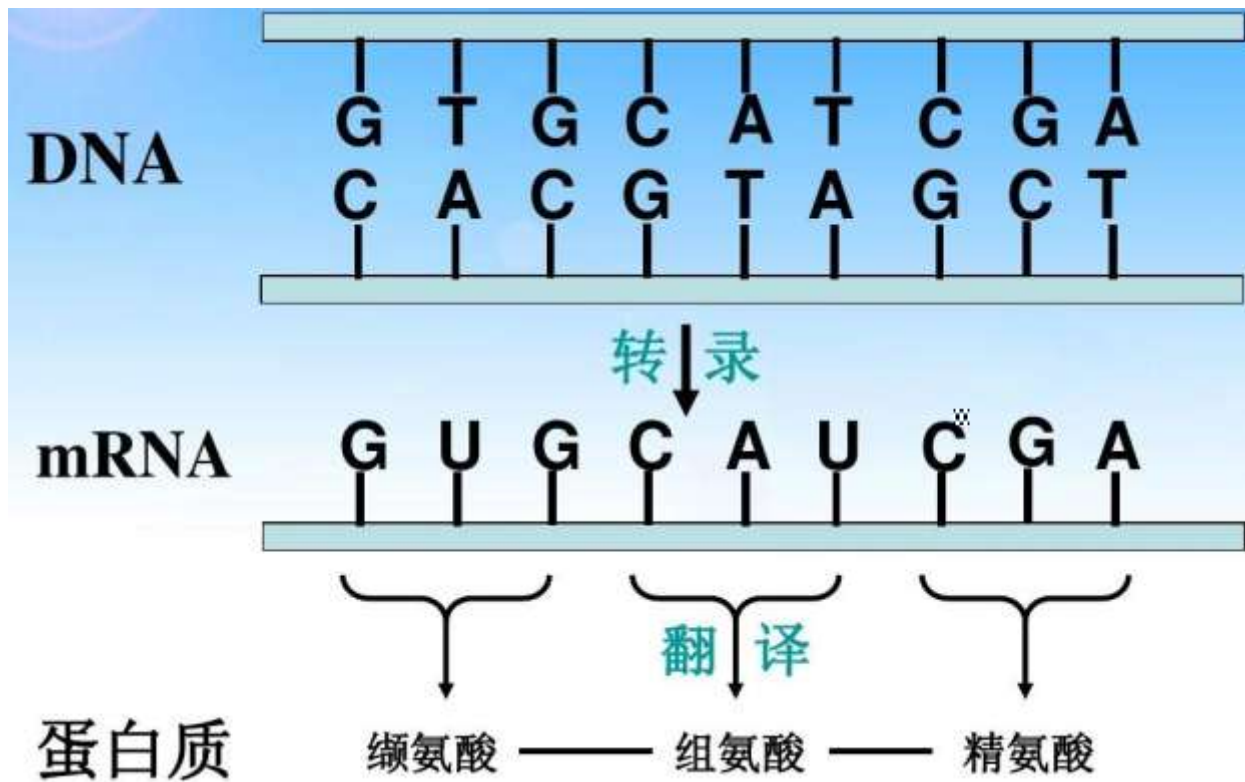
亮氨酸

1

2



1



6

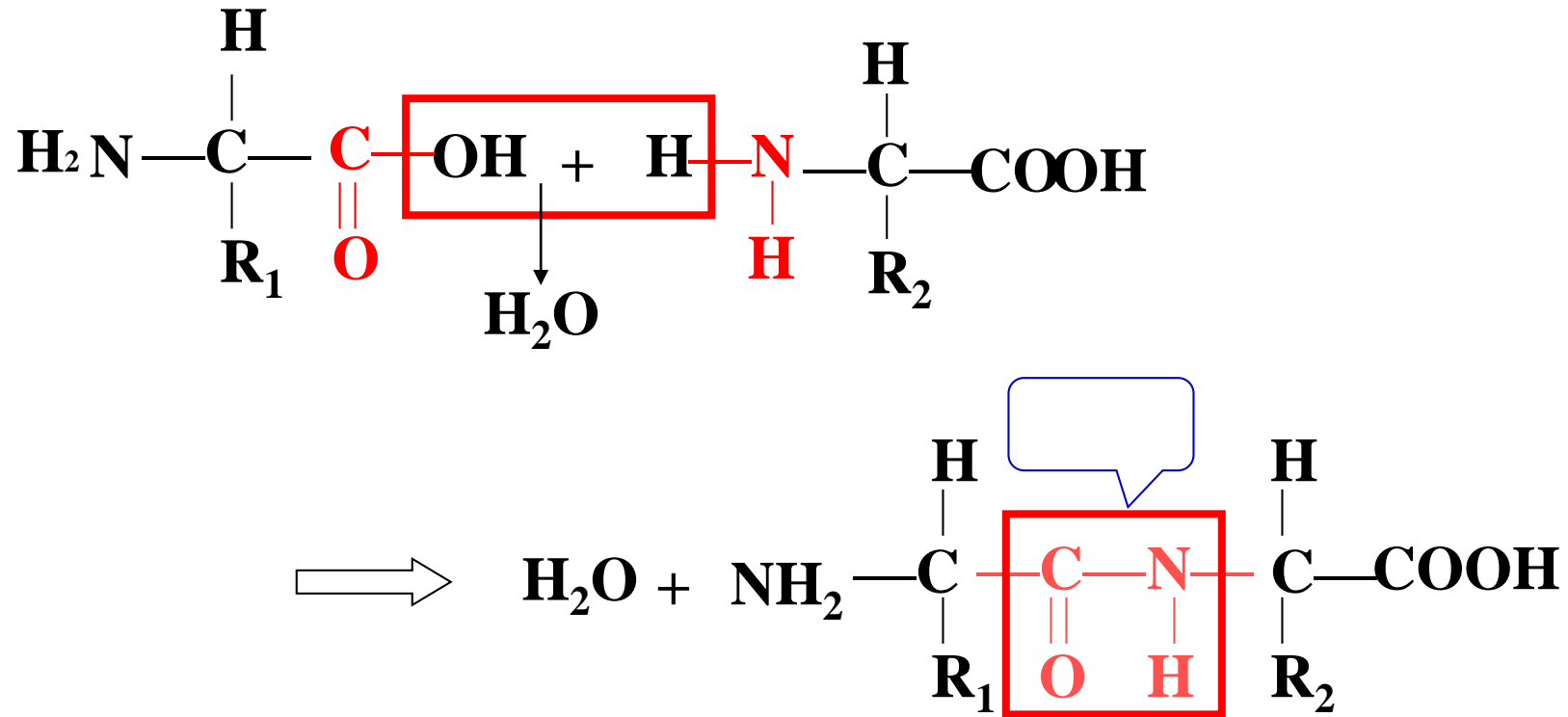
3

1

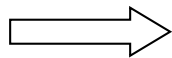
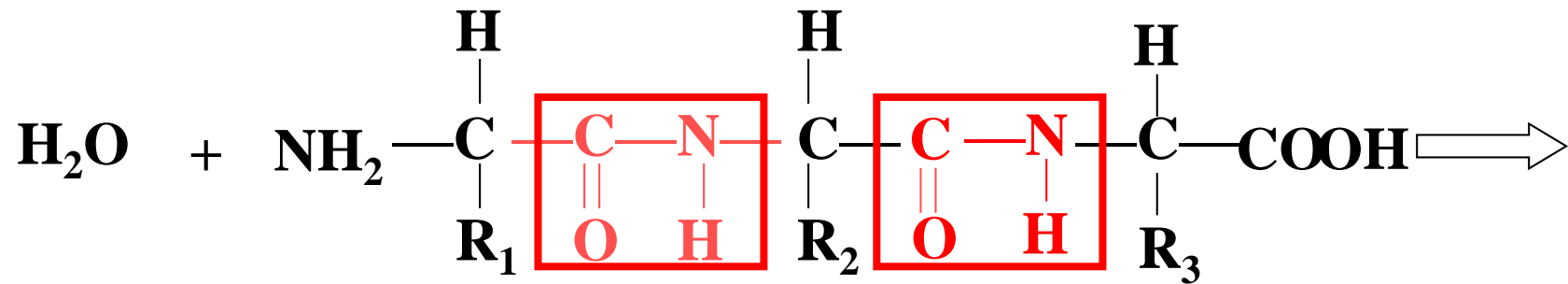
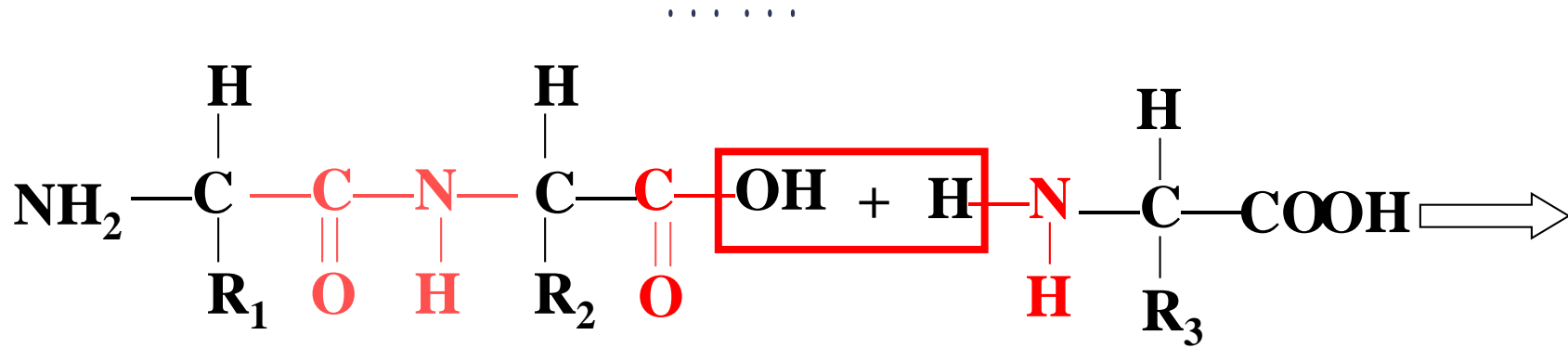




1

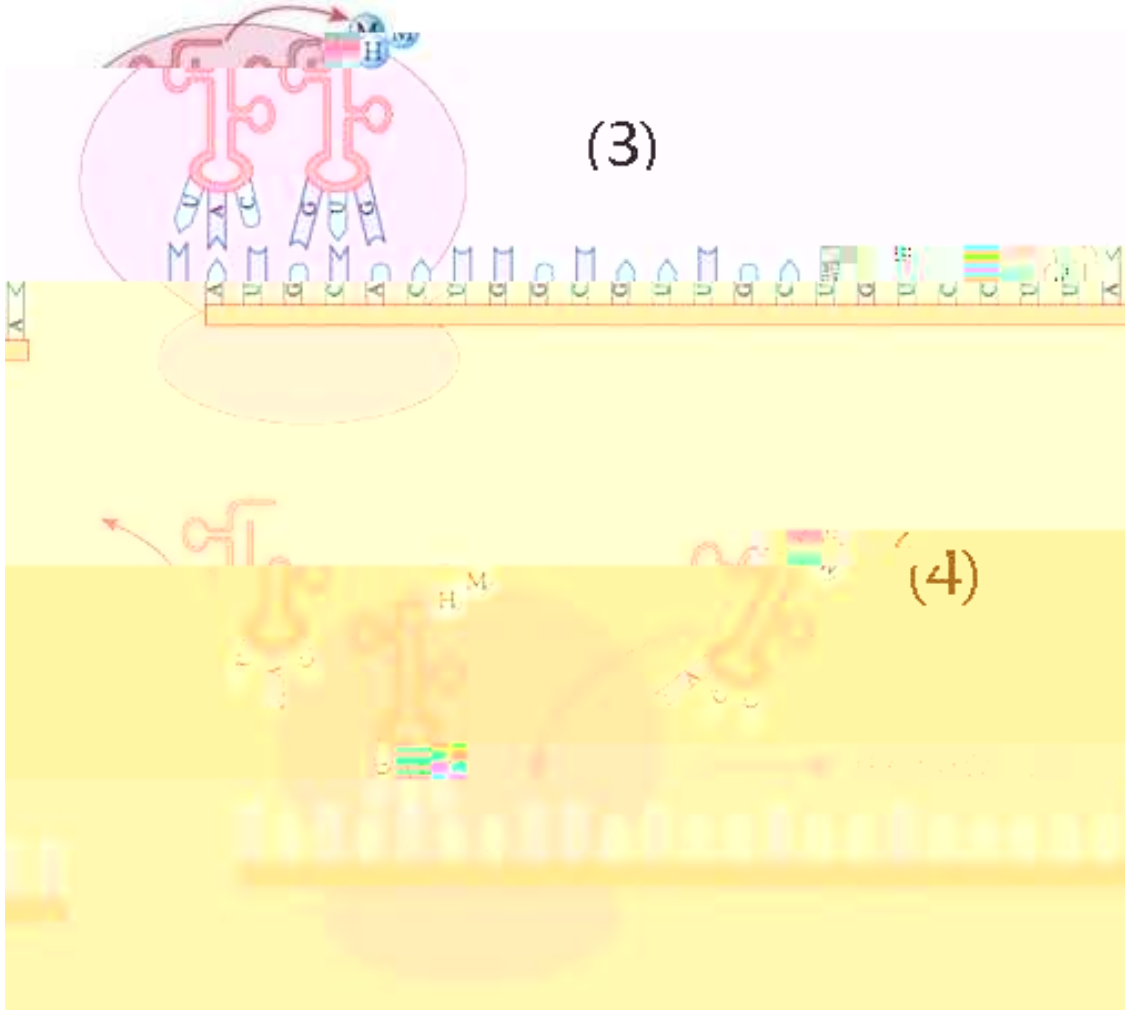


1

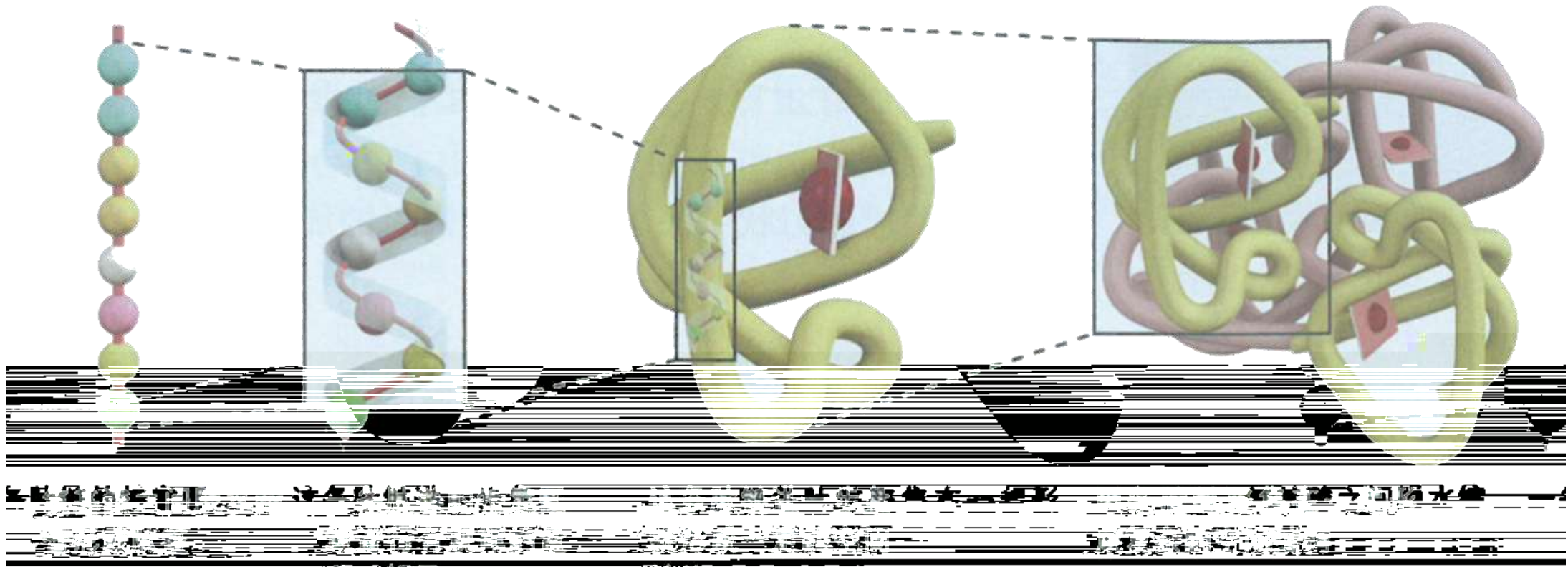




1

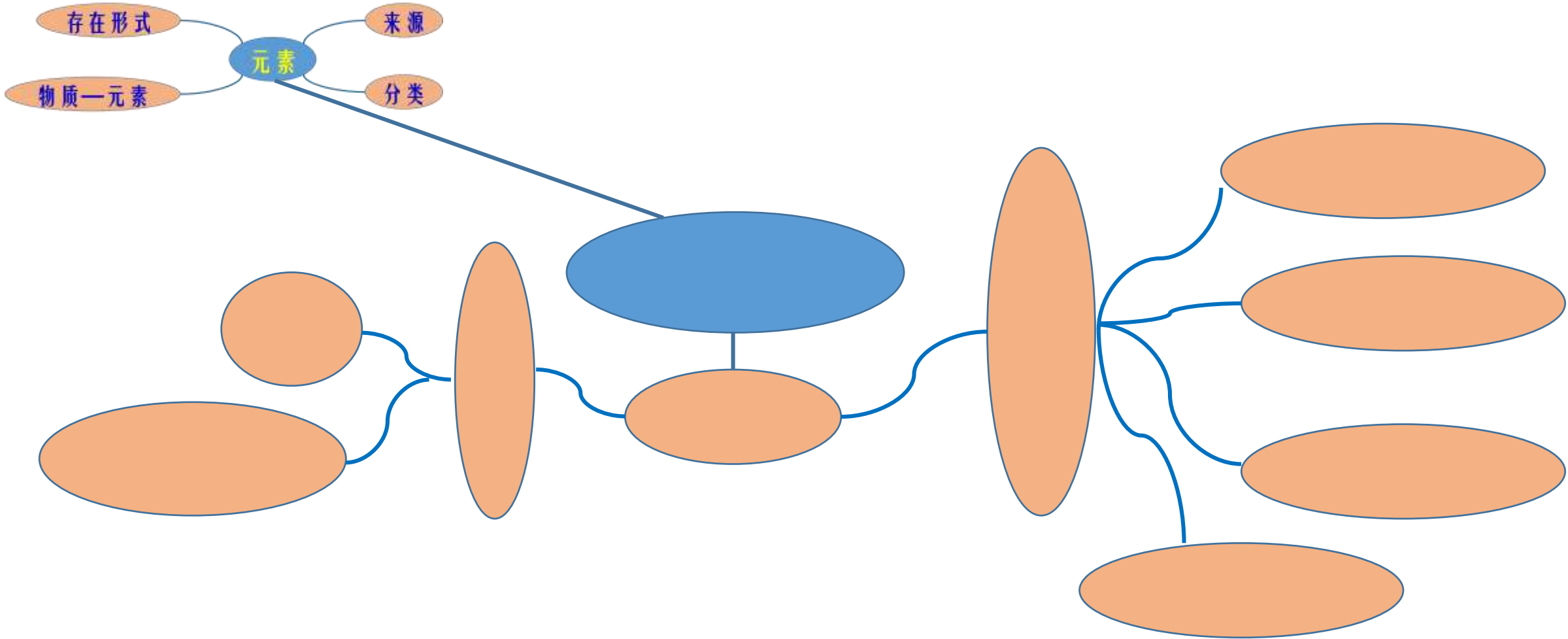


1

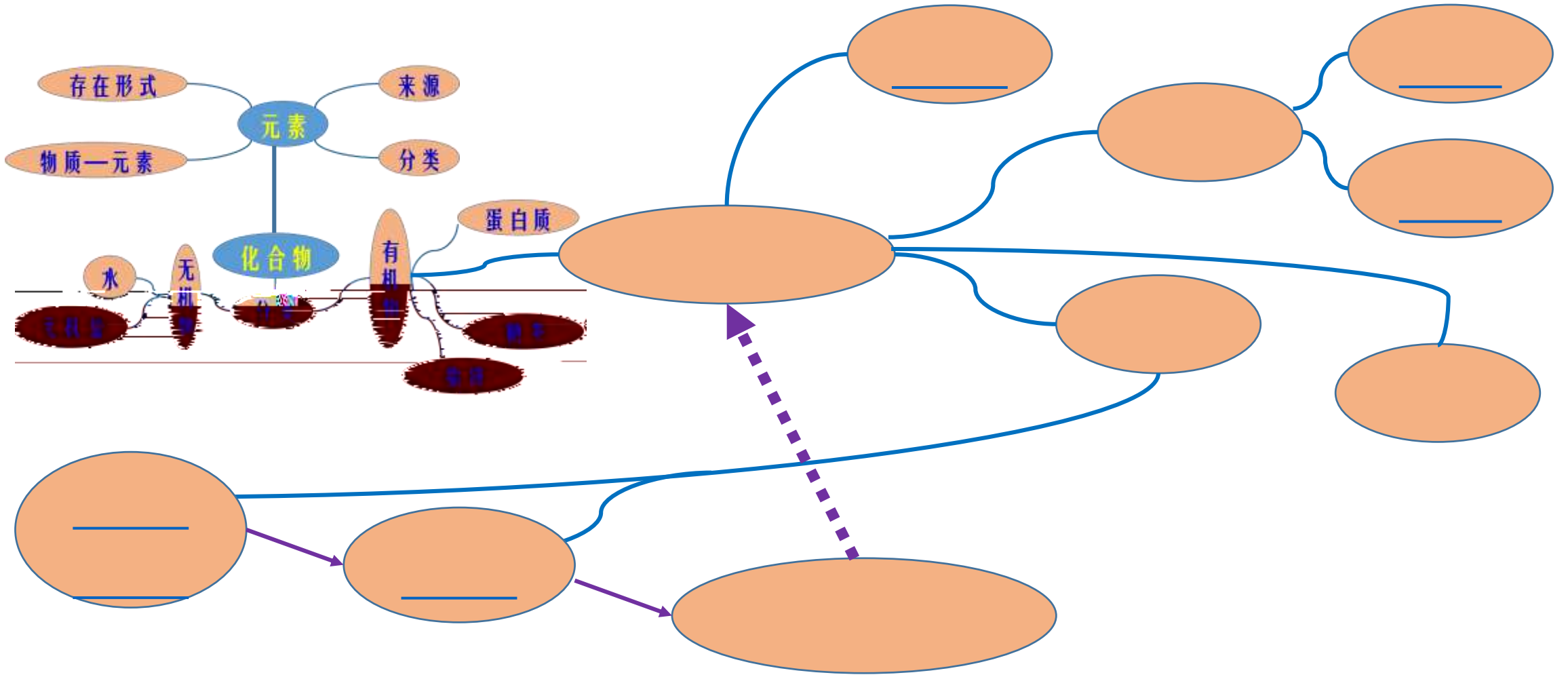


4-

1



1





1

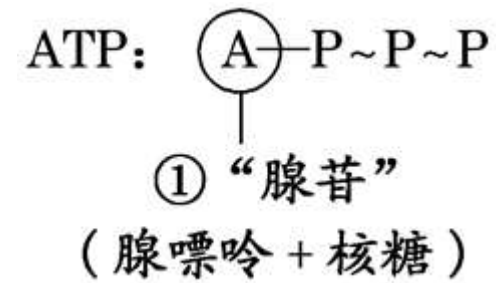
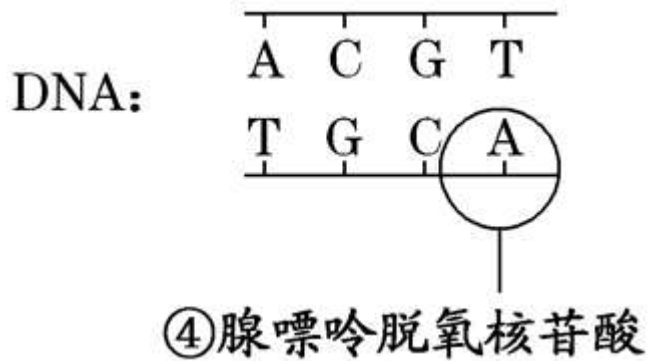
1/DNA

DNA

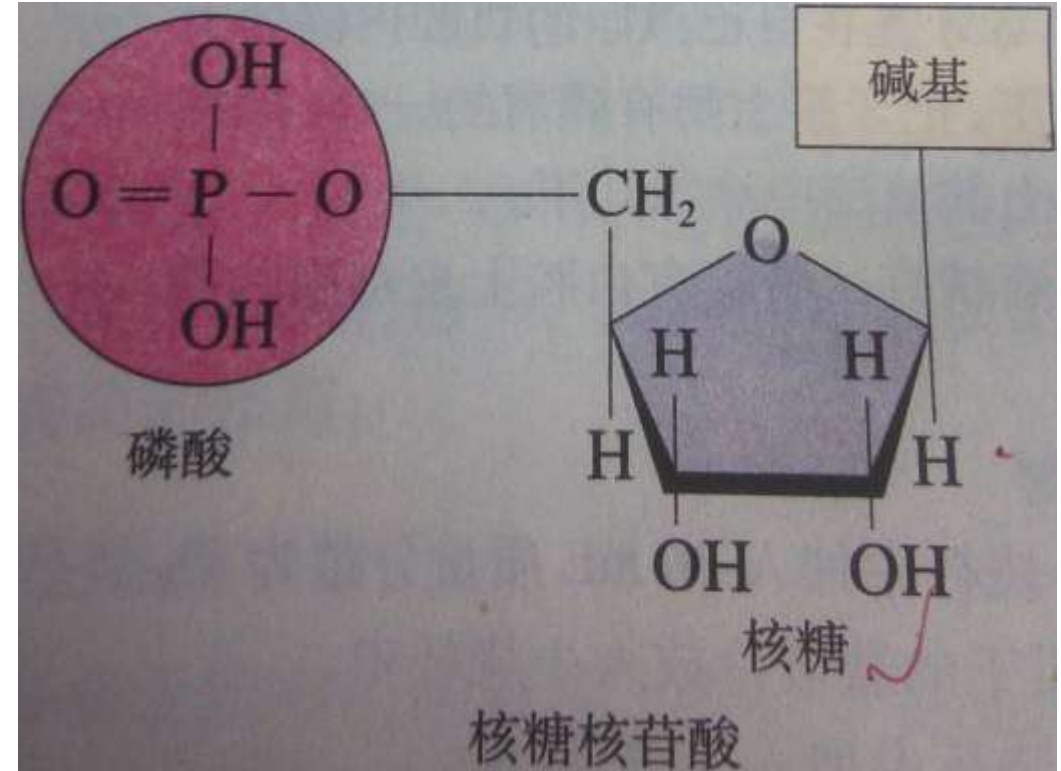
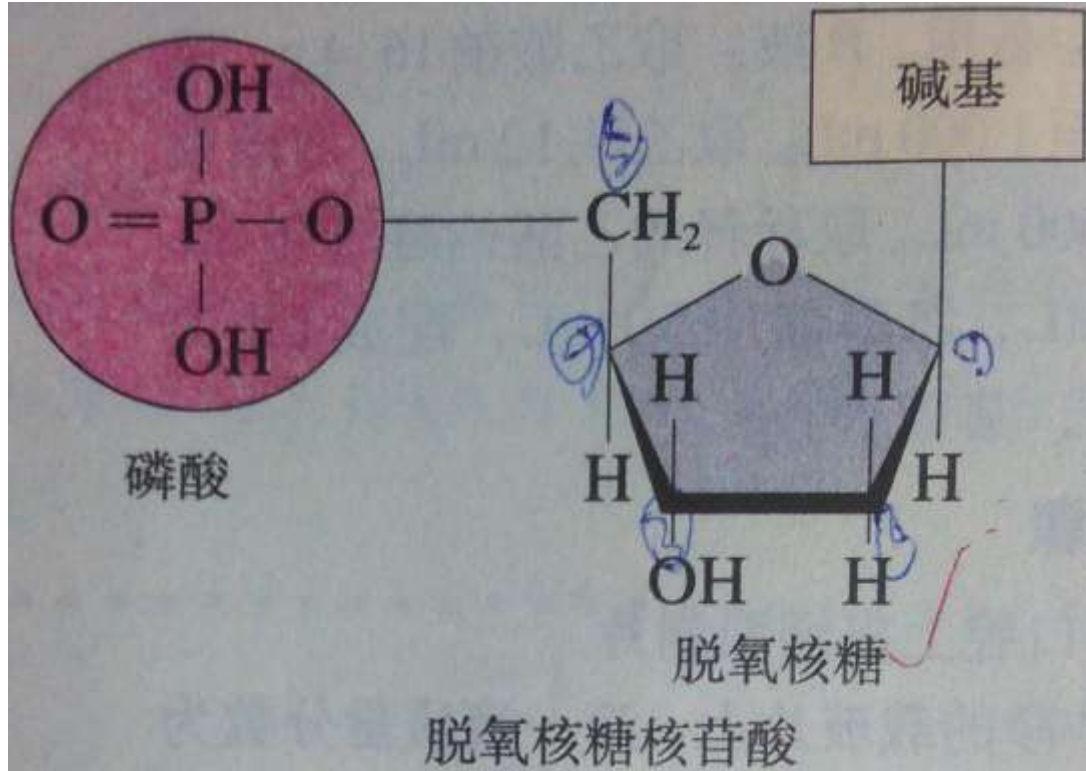
DNA

2/DNA RNA ATP

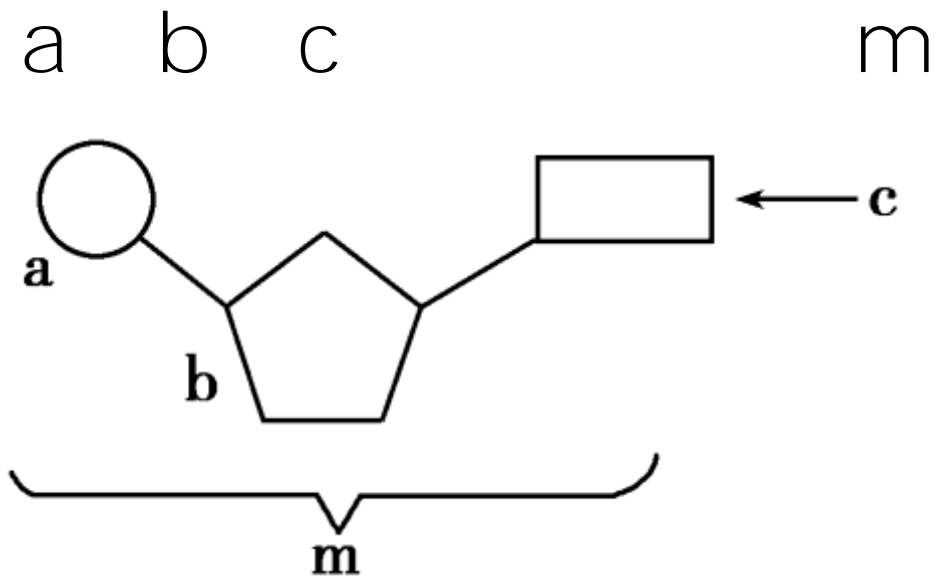
" A "



1



1



A c

m

B

m

4

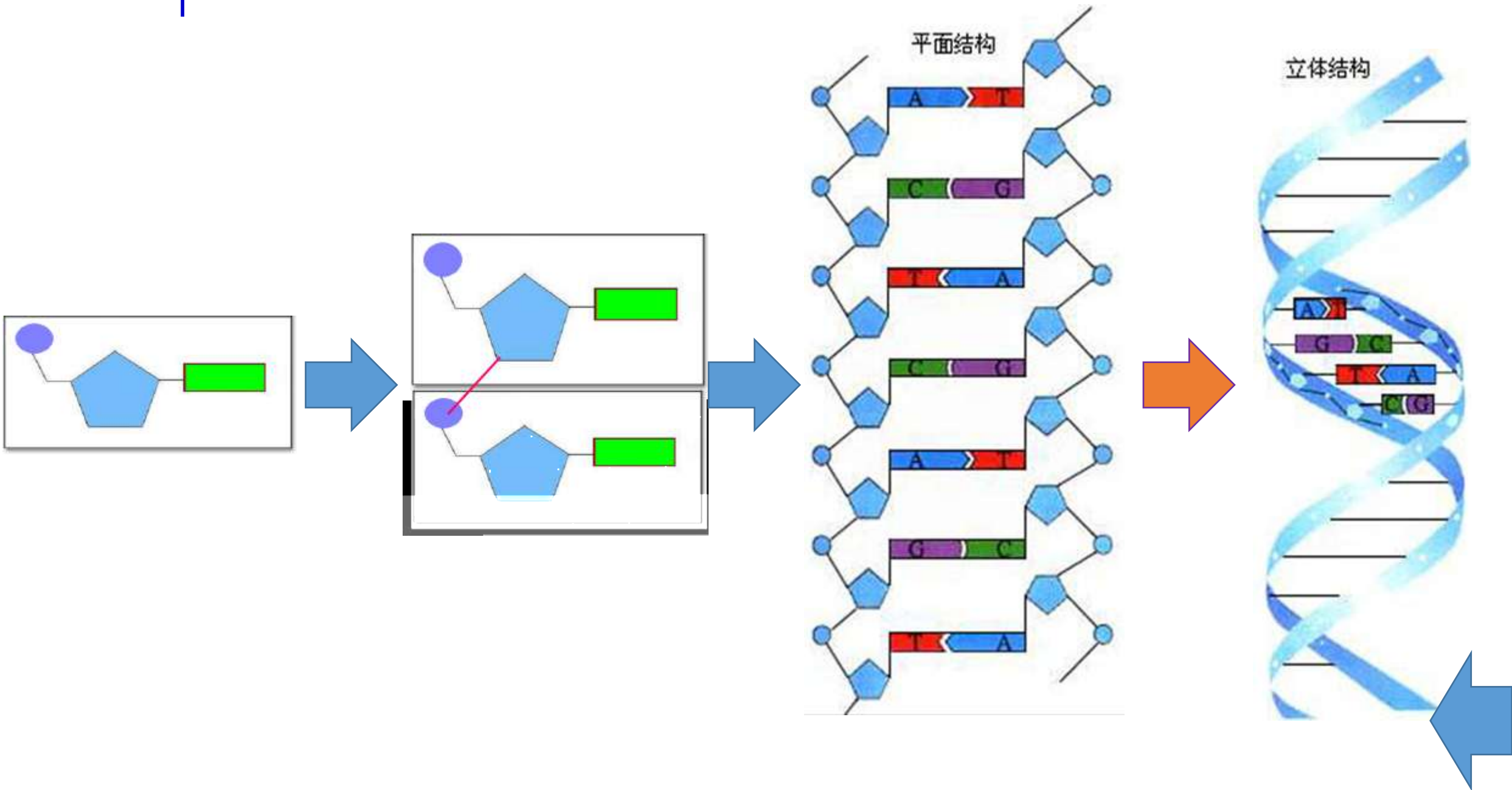
C ATP

m

D b c



1





2

( )

A

RNA

B

SARS

5

C

DNA ATP

D

DNA

A T



DNA

— —

( )

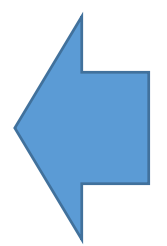
A " DNA RNA "

B " DNA RNA "

C

D

D







祝你進步 學業有成

ZHU NI JIN BU XUE YE YOU CHENG