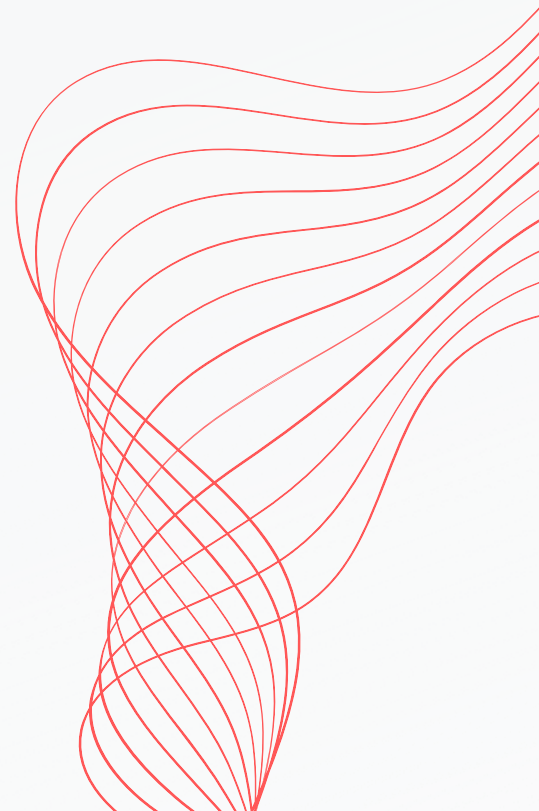
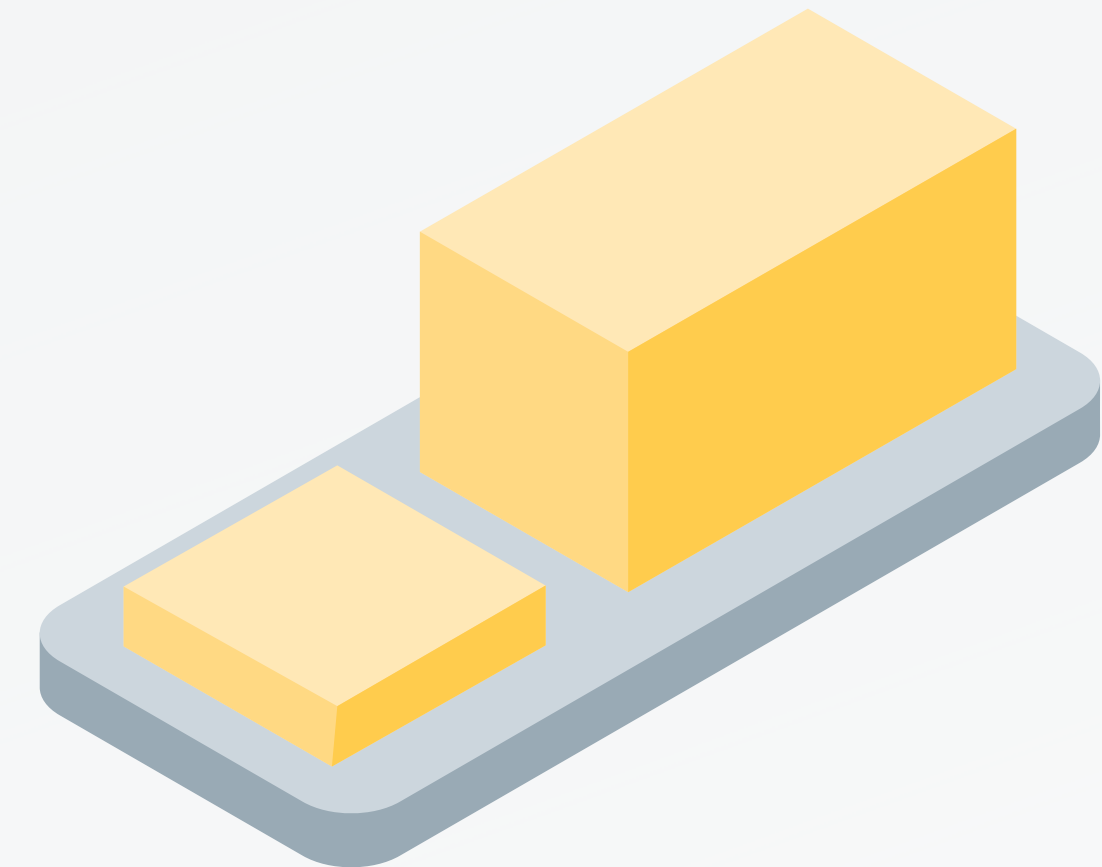


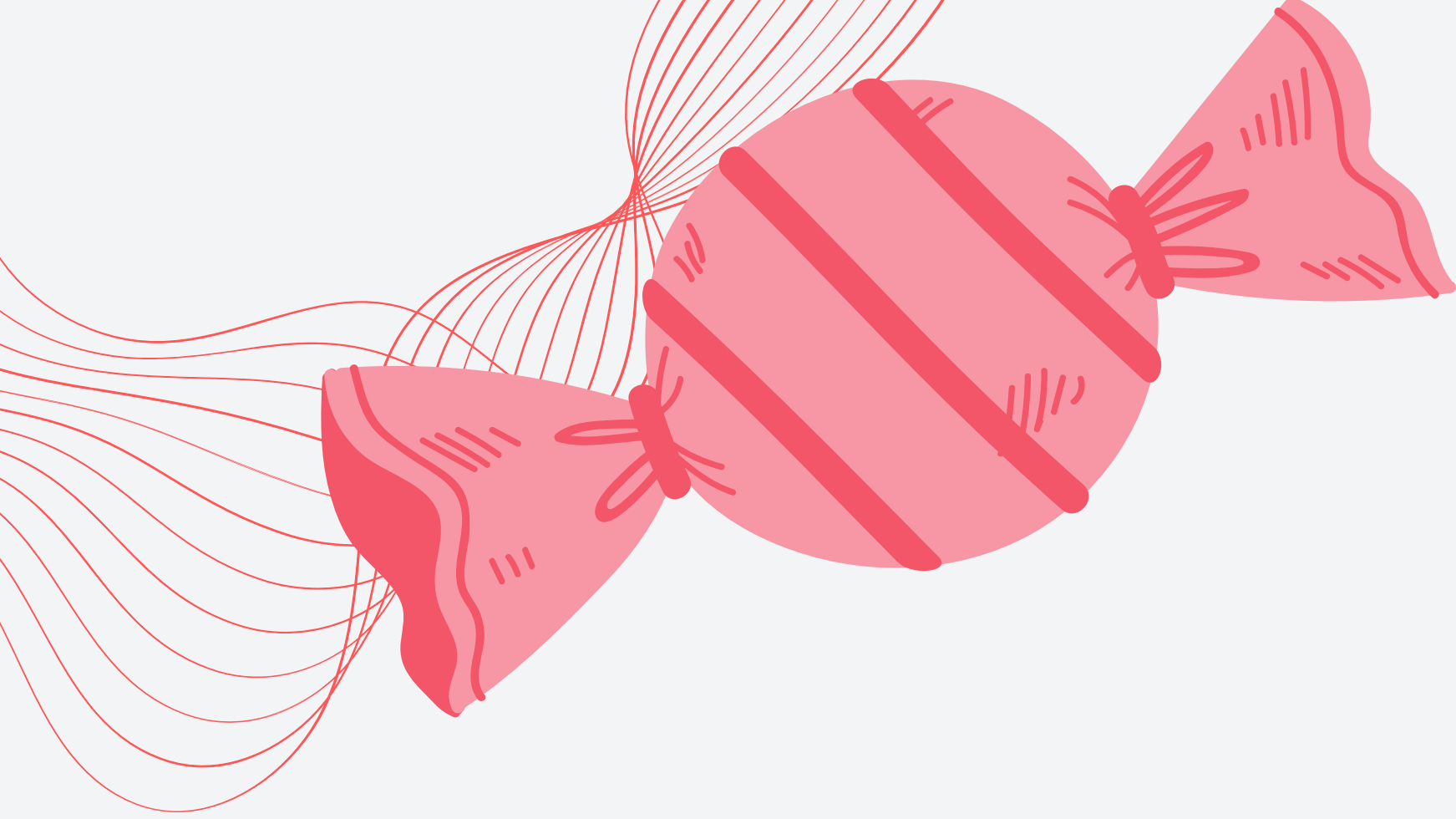


# RECAP + RÉGULATION COVALENTE METABOLISME N°2

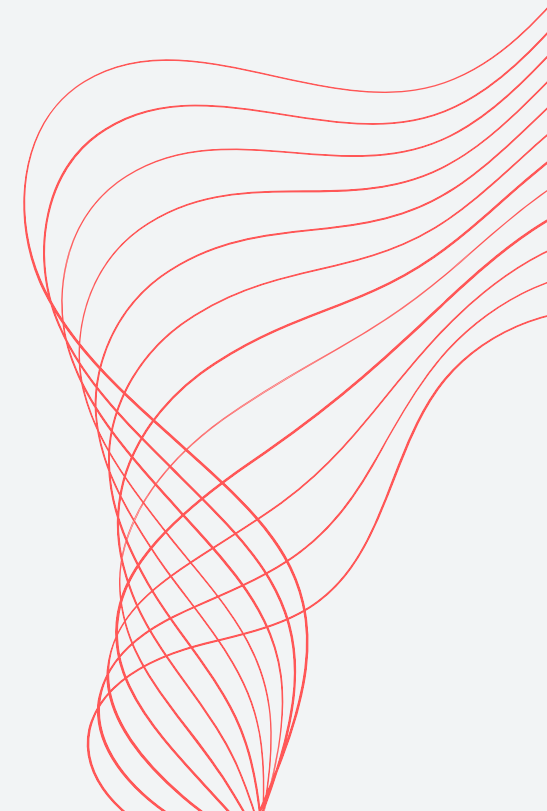
TUTORAT 2023-2024 NARINETTE



# MÉTABOLISME GLUCIDIQUE



Voie	Compartiment	Organe	Condition
<b>Glycolyse</b> CATA			



# MÉTABOLISME GLUCIDIQUE

Selon moi cette colonne  
n'est pas à apprendre par  
coeur, mais plutôt à  
comprendre

Voie	Compartiment	Organe	Condition
 CATA	 Cytosol	 Ubiquitaire	 Post-prandial

# MÉTABOLISME GLUCIDIQUE

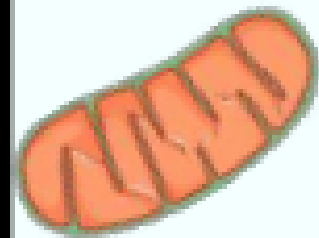
**Néogluco  
genèse**

ANA

# MÉTABOLISME GLUCIDIQUE

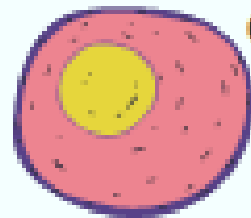
**Néogluco  
genèse**

ANA



Mitochondrie

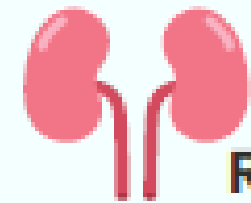
Cytosol



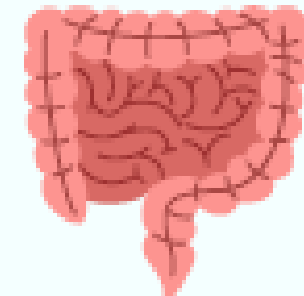
Réticulum  
endoplasmique



Foie  
(surtout)



Reins



Intestins



**Post-absorptif**

# MÉTABOLISME GLUCIDIQUE

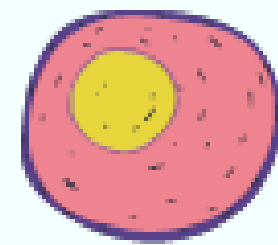
**Glycogéno  
genèse**

ANA

# MÉTABOLISME GLUCIDIQUE

**Glycogéno  
genèse**

ANA



**Cytosol**

**Surtout :**

Muscle  
squelettique



**Foie**

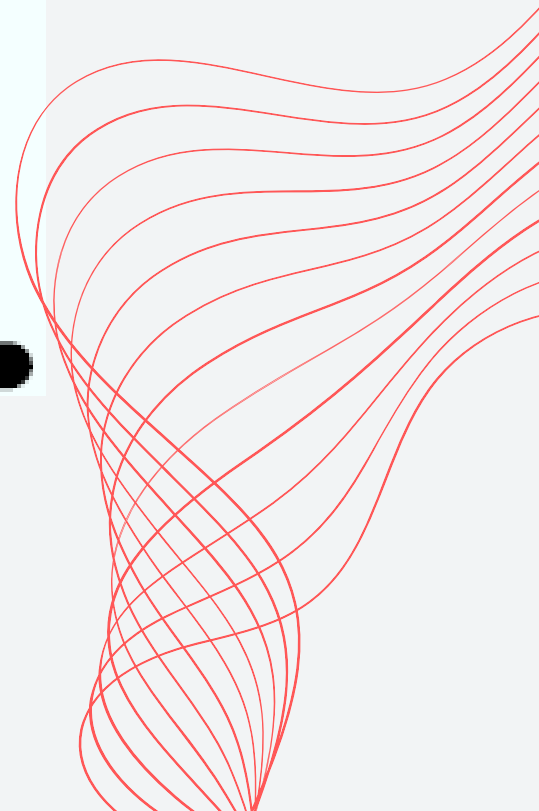
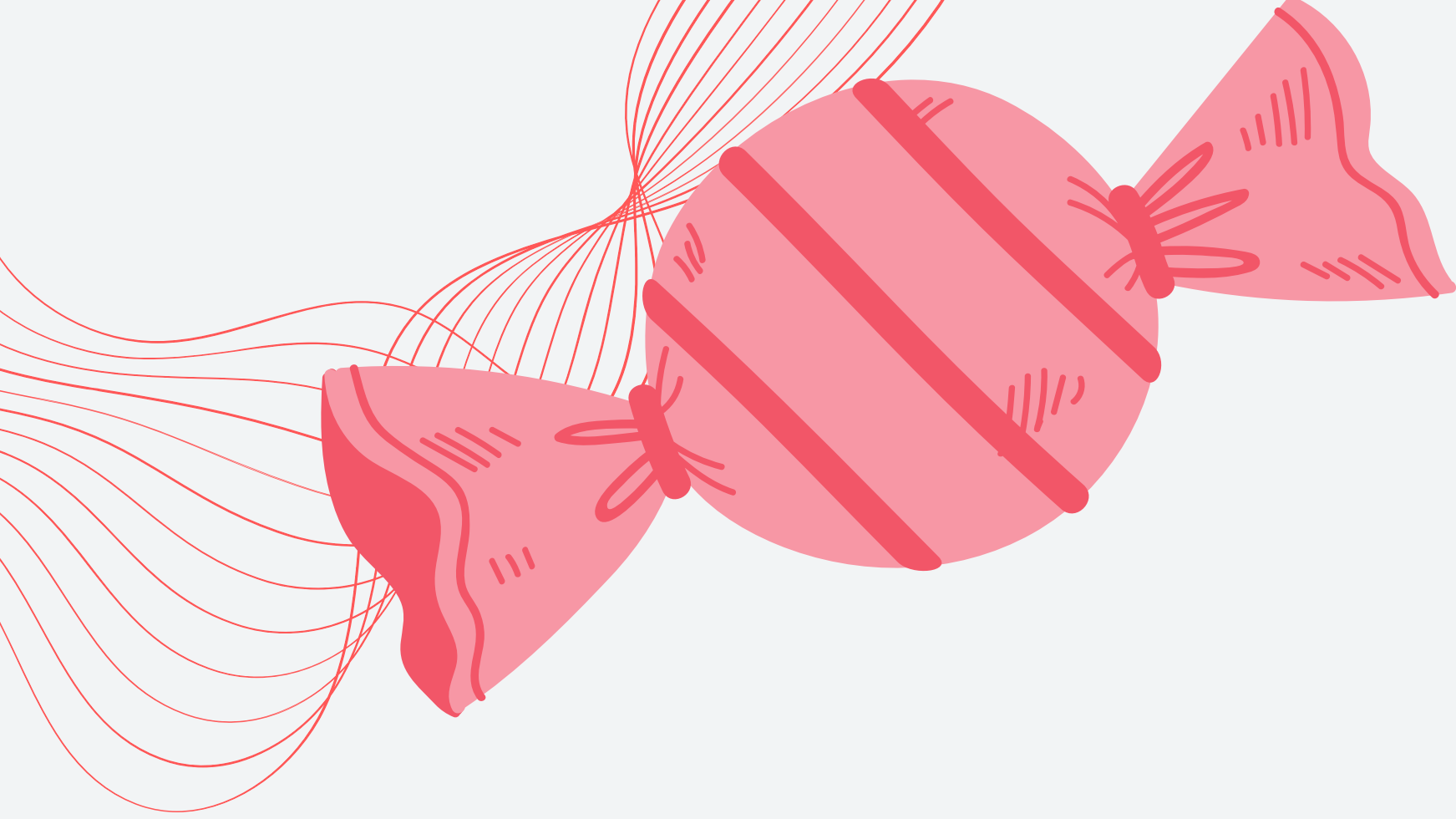


**Post-prandial**

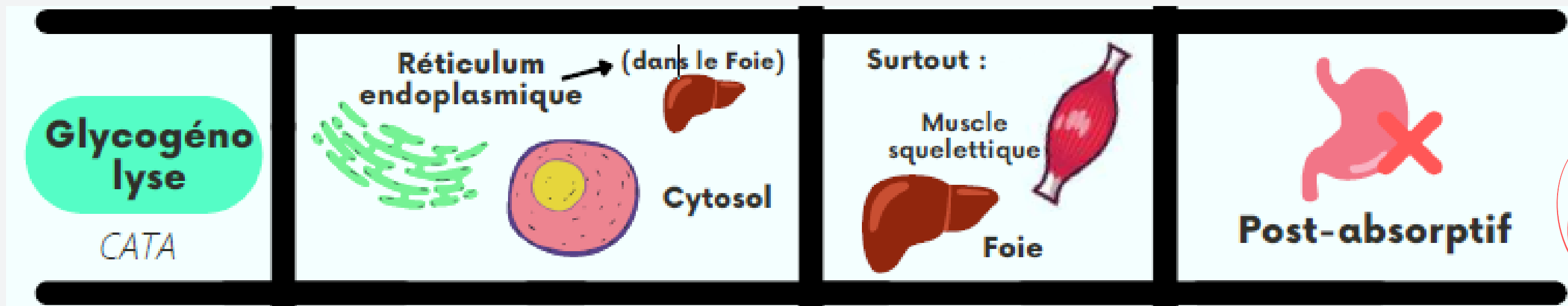
# MÉTABOLISME GLUCIDIQUE

**Glycogéno  
lyse**

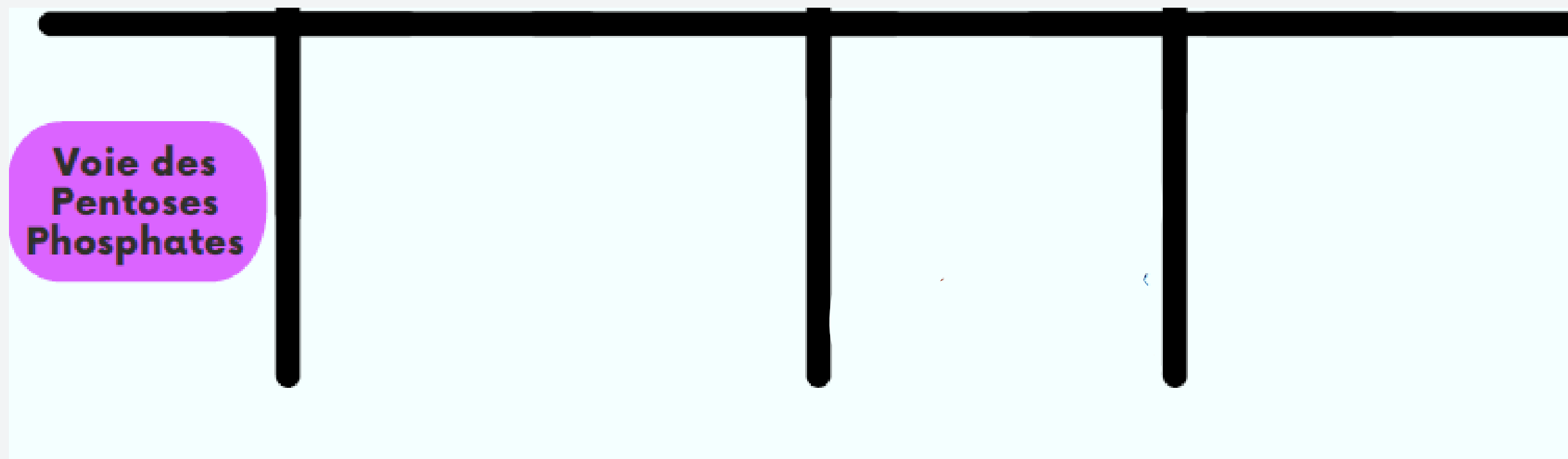
CATA



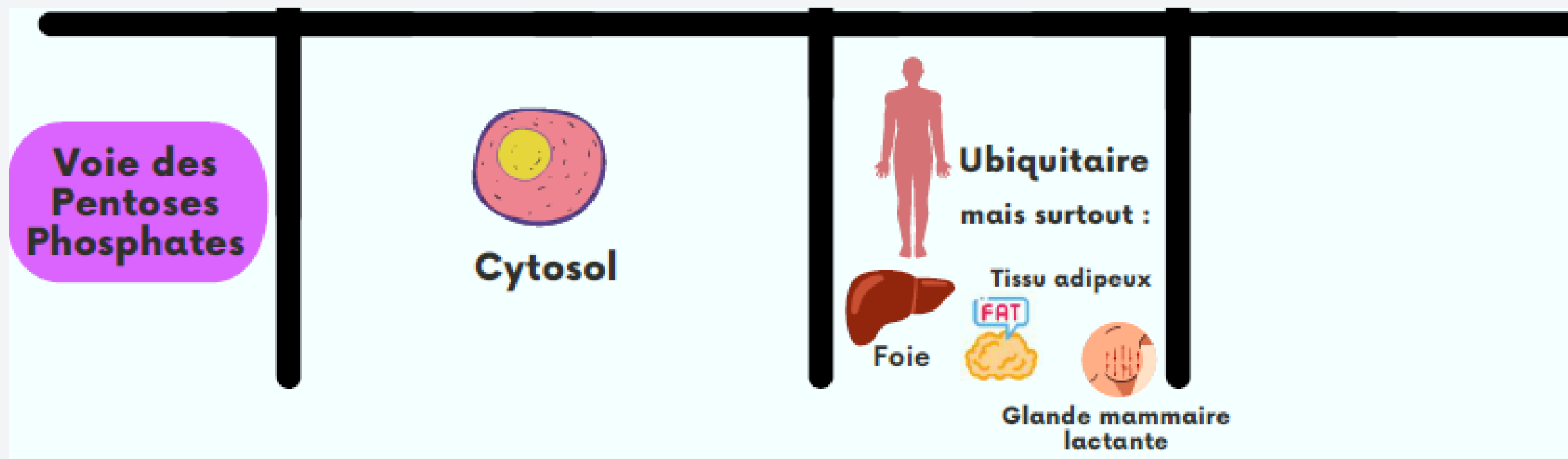
# MÉTABOLISME GLUCIDIQUE



# MÉTABOLISME GLUCIDIQUE


























# MÉTABOLISME GLUCIDIQUE

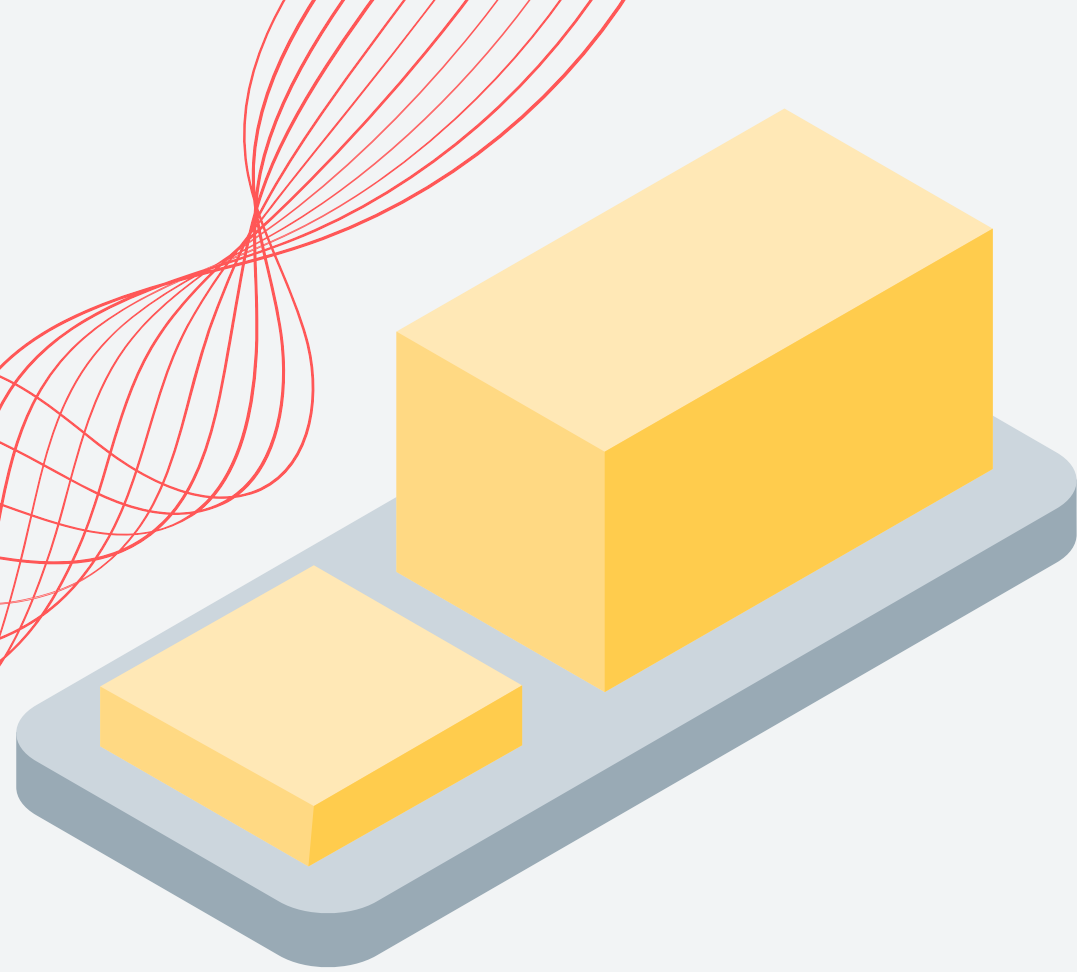




# RECAP MÉTABOLISME GLUCIDIQUE

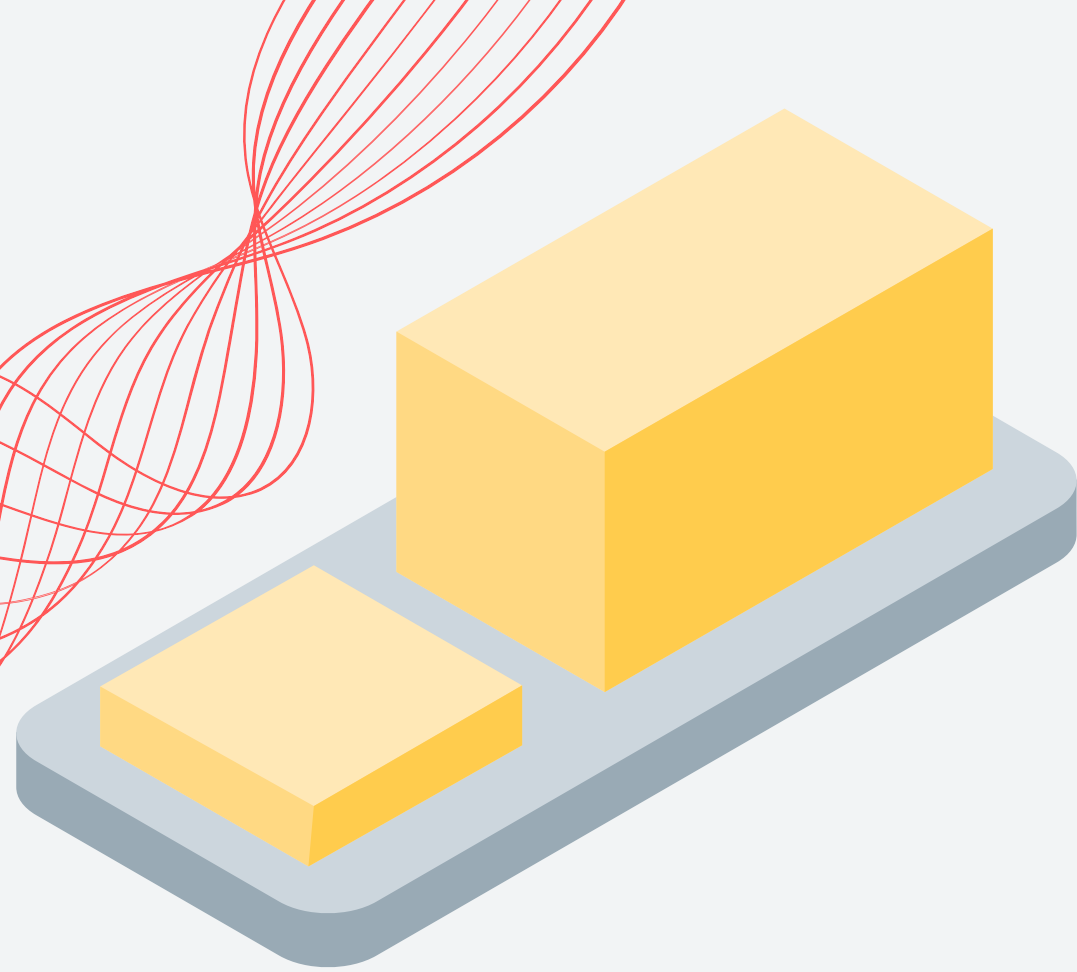
Voie	Compartiment	Organe	Condition
<b>Glycolyse</b> CATA	 Cytosol	 Ubiquitaire	 Post-prandial
<b>Néogluco- genèse</b> ANA	 Mitochondrie  Réticulum endoplasmique  Cytosol	 Foie (surtout)  Intestins  Reins	 Post-absorptif
<b>Glycogéno- genèse</b> ANA	 Cytosol	Surtout :  Muscle squelettique  Foie	 Post-prandial
<b>Glycogéno- lyse</b> CATA	 Réticulum endoplasmique (dans le Foie)  Cytosol	Surtout :  Muscle squelettique  Foie	 Post-absorptif
<b>Voie des Pentoses Phosphates</b>	 Cytosol	Ubiquitaire mais surtout :  Foie  Tissu adipeux  Glande mammaire lactante	

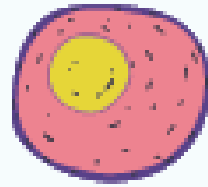





# MÉTABOLISME LIPIDIQUE



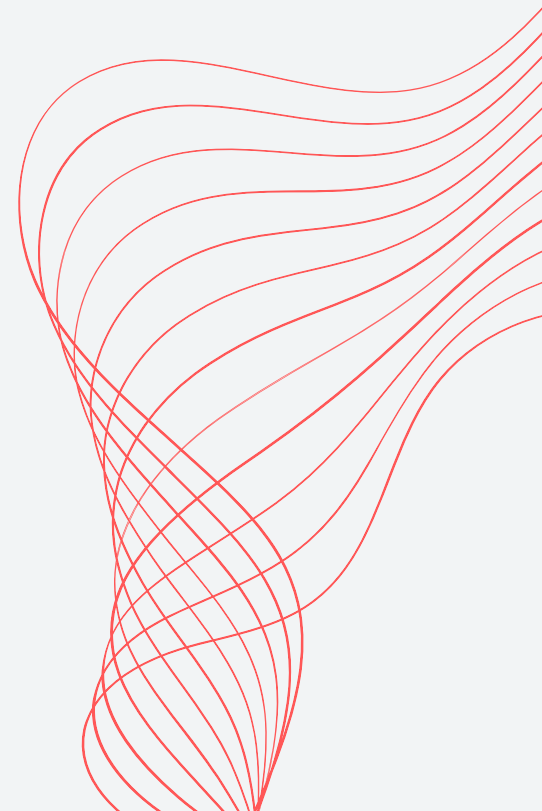
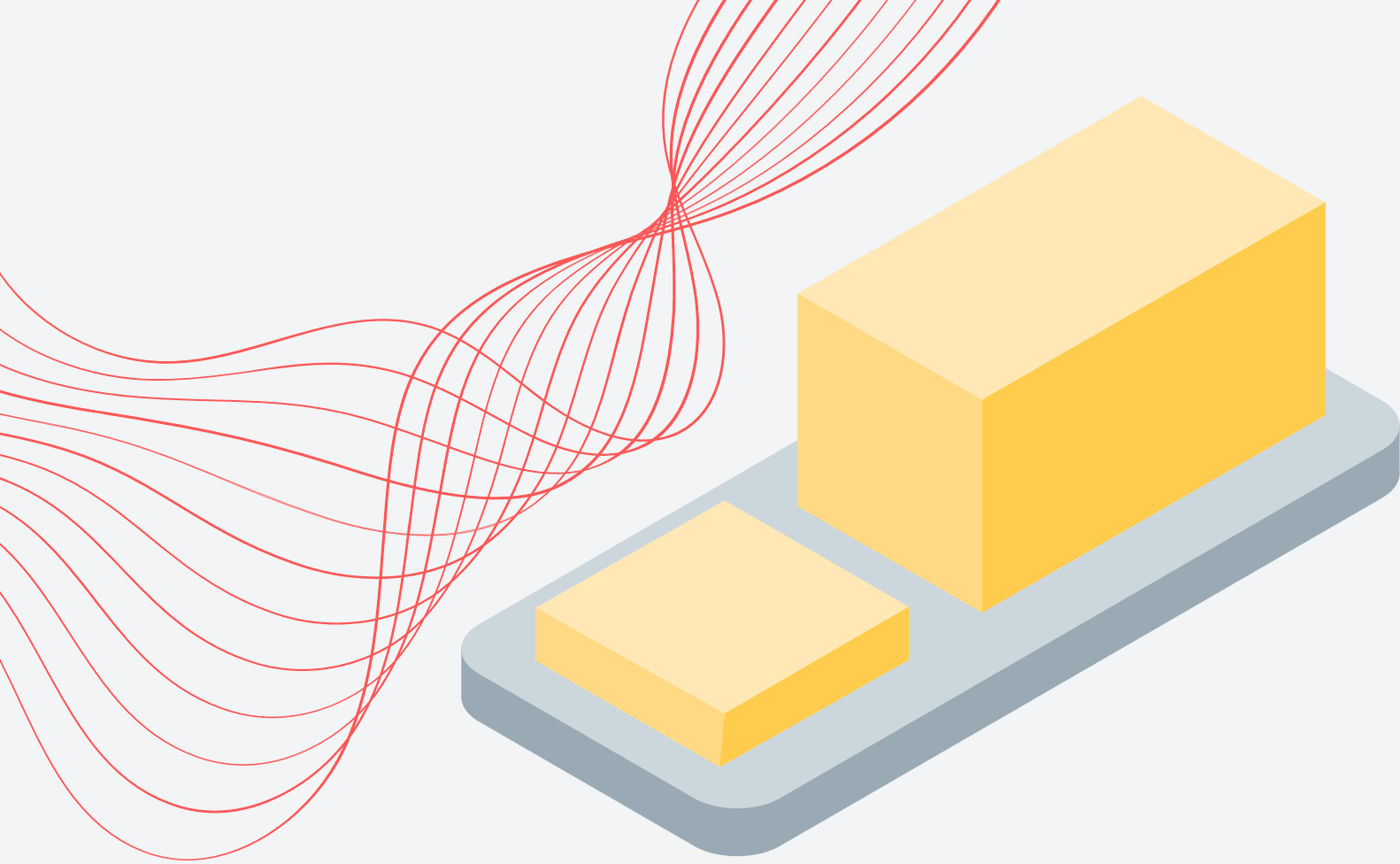
Voie	Compartiment	Organe	Condition
<b>Lipogenèse</b> ANA			

# MÉTABOLISME LIPIDIQUE

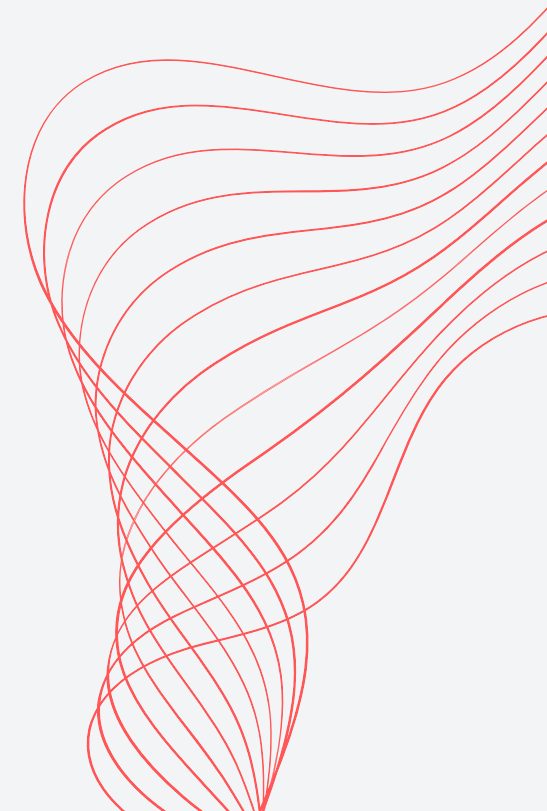
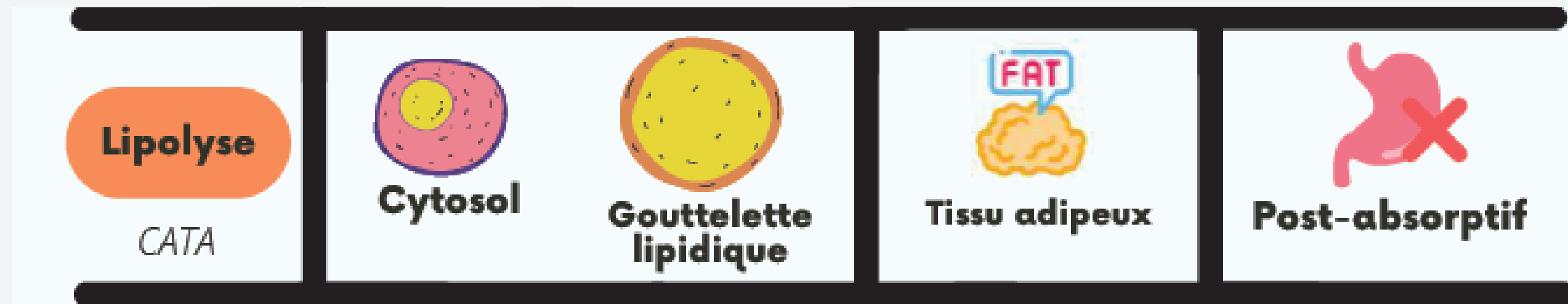
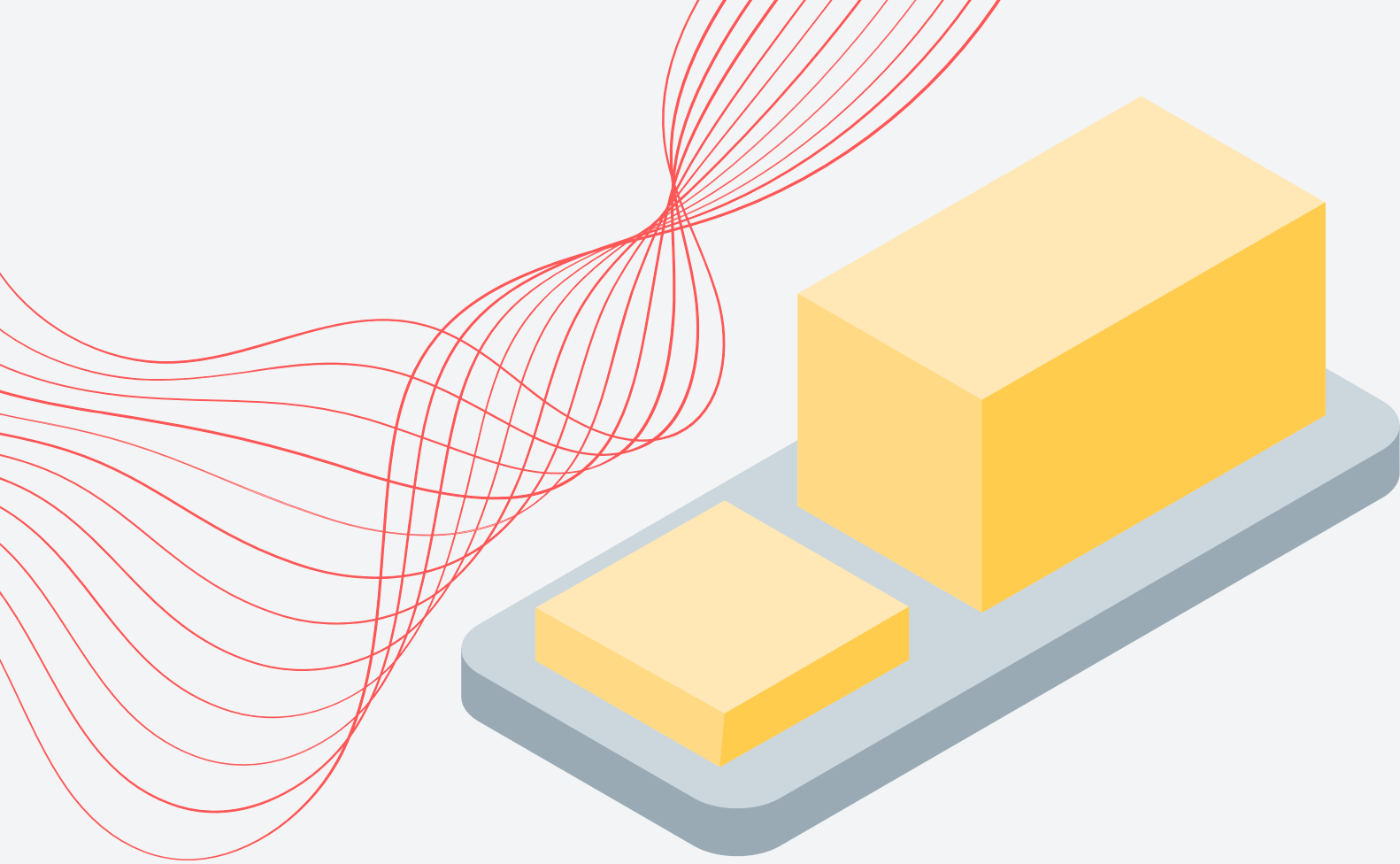


Voie	Compartiment	Organe	Condition
<b>Lipogenèse</b> ANA	 Cytosol	<b>Surtout :</b>   Tissu adipeux (faiblement)  Foie  Glande mammaire lactante	 Post-prandial

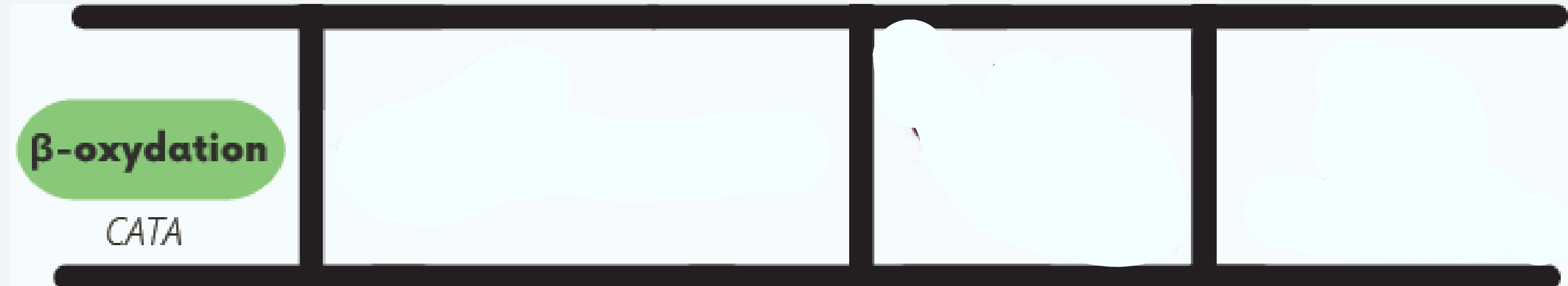
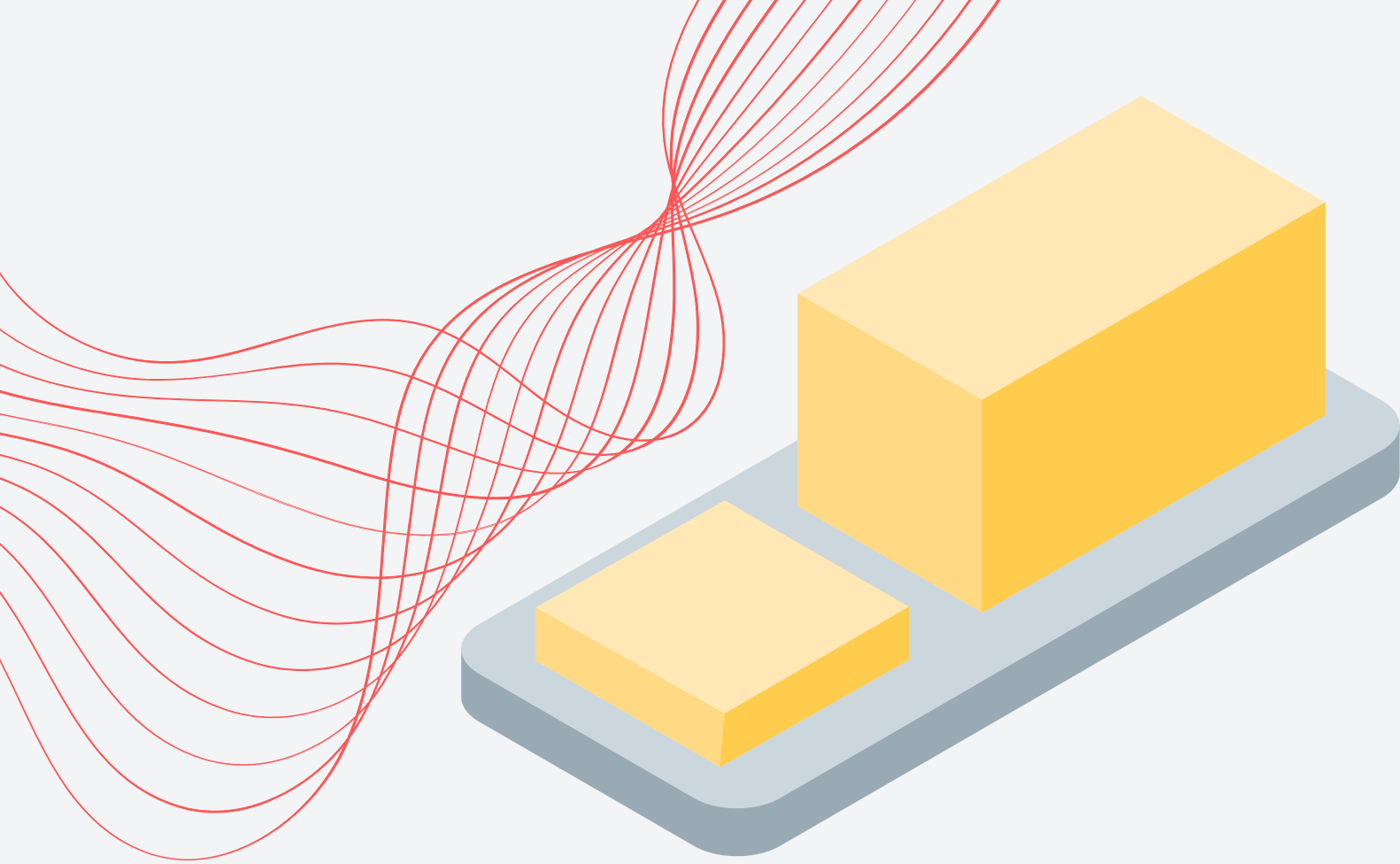
# MÉTABOLISME LIPIDIQUE



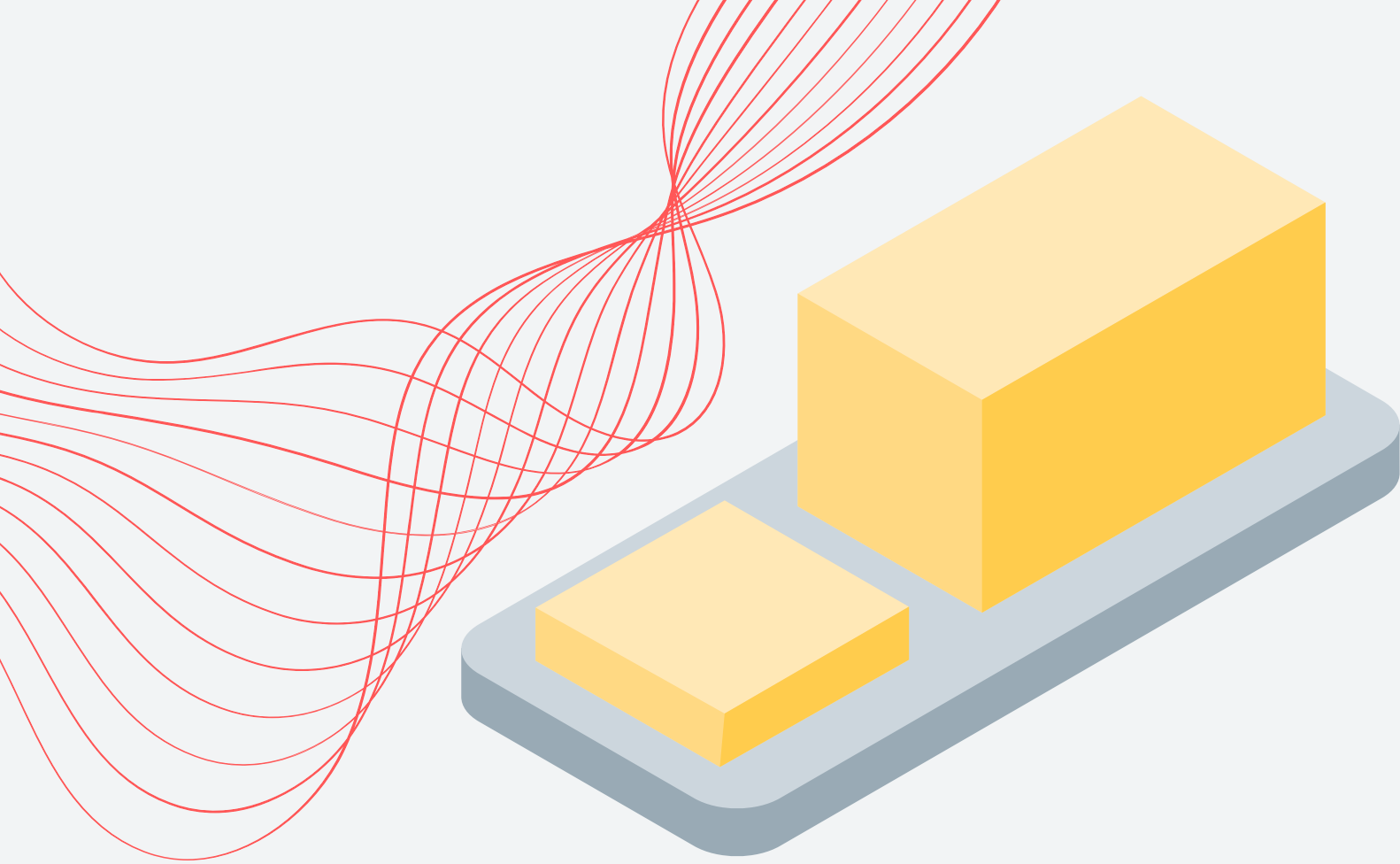
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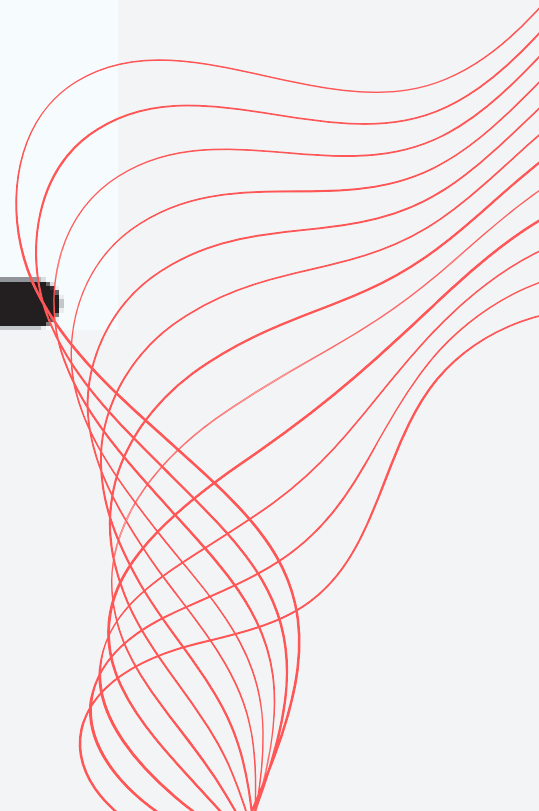
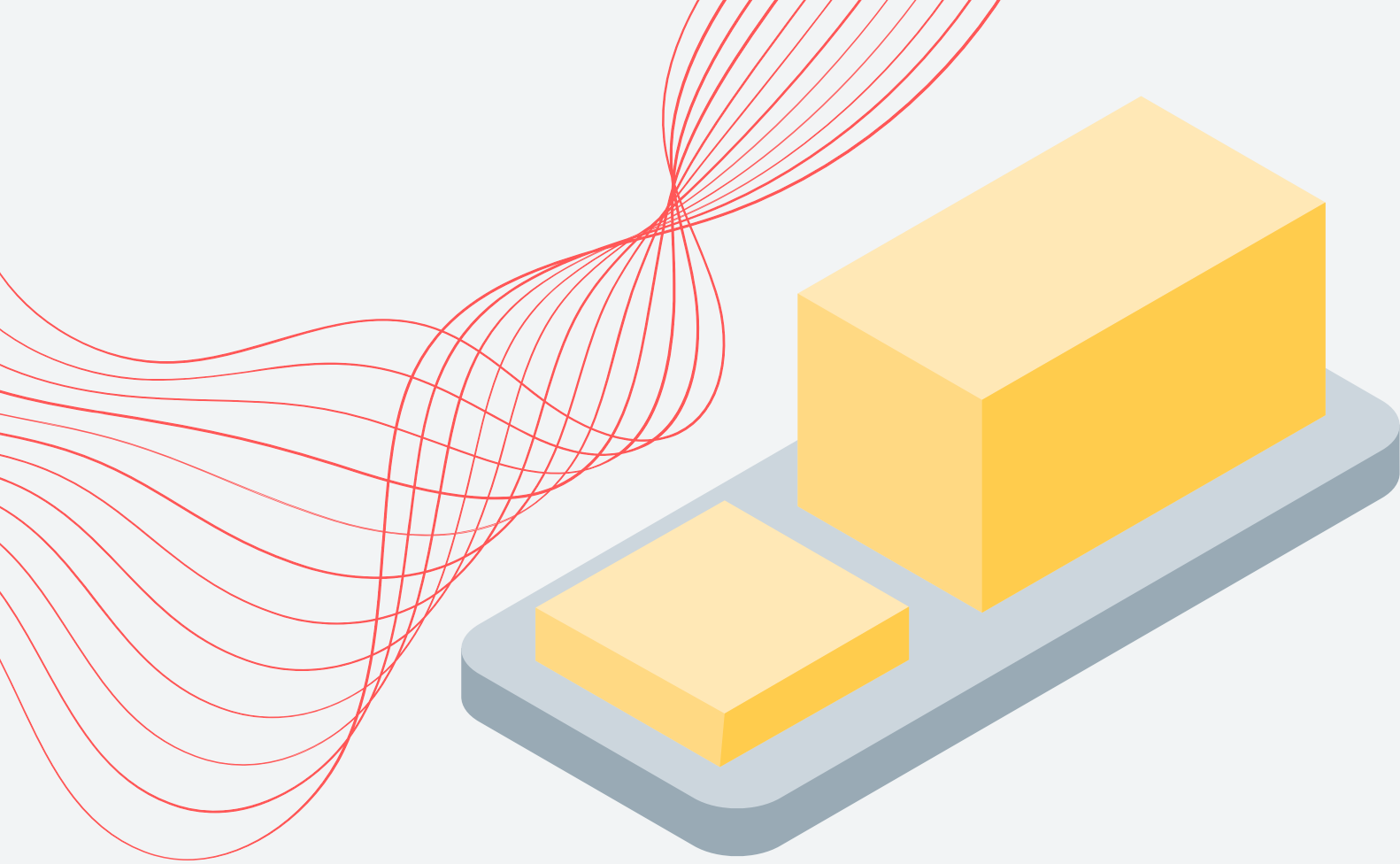
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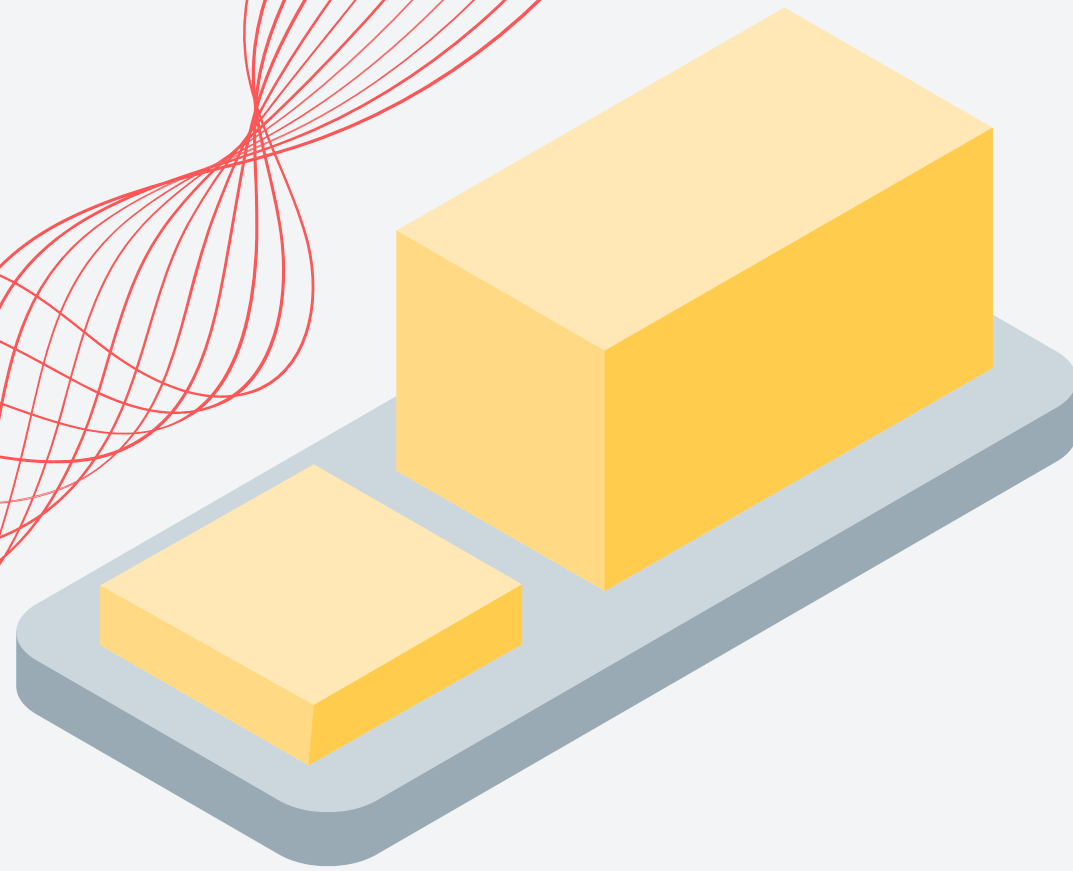
# MÉTABOLISME LIPIDIQUE



# MÉTABOLISME LIPIDIQUE



# MÉTABOLISME LIPIDIQUE

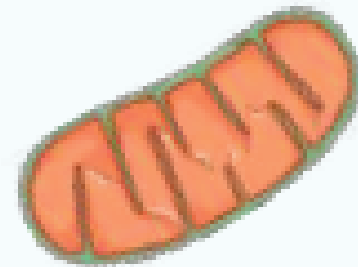


**Élongation  
des AG  
saturés**

ANA

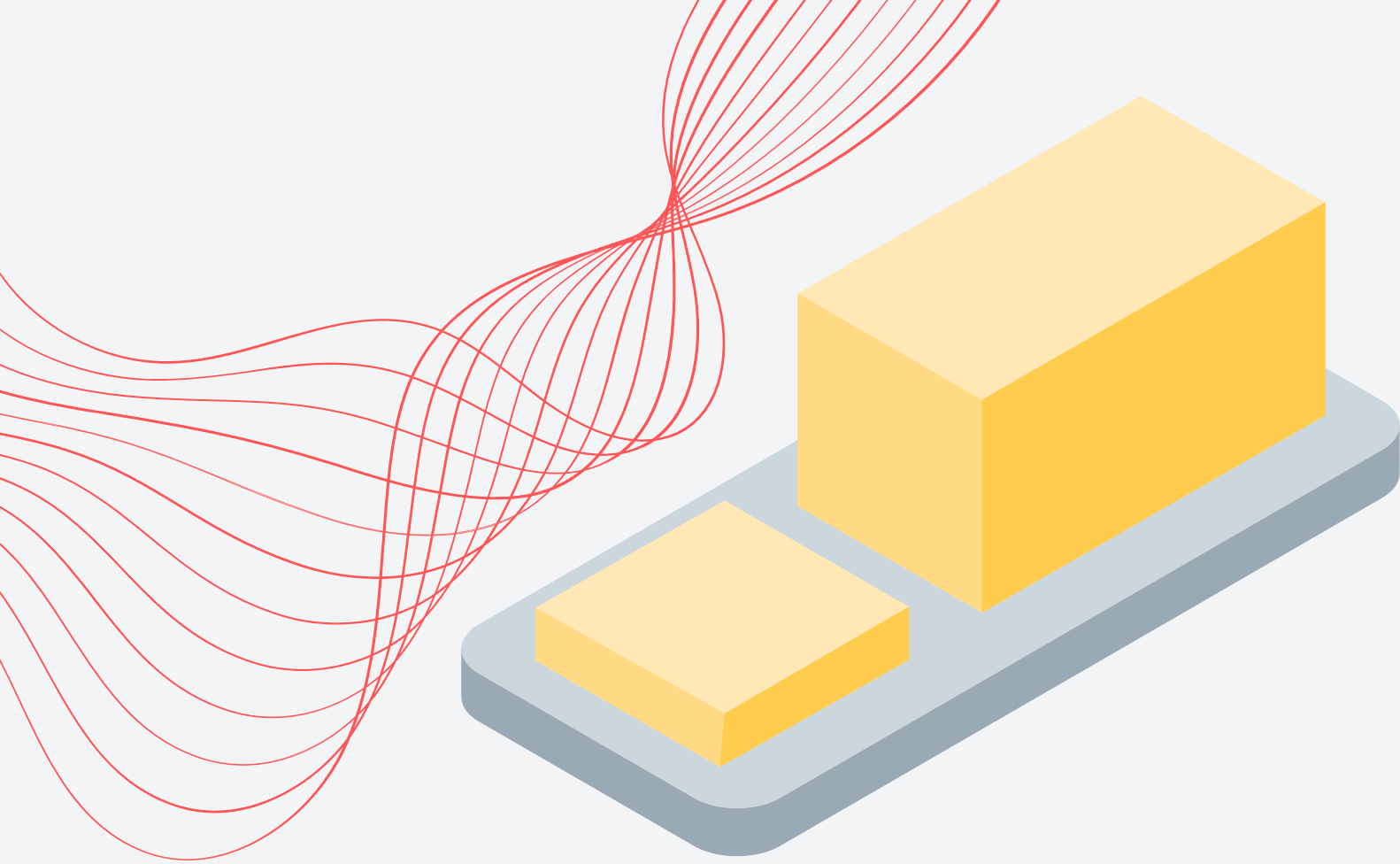


**Réticulum  
endoplasmique**  
(majoritairement)  
(AG longs)

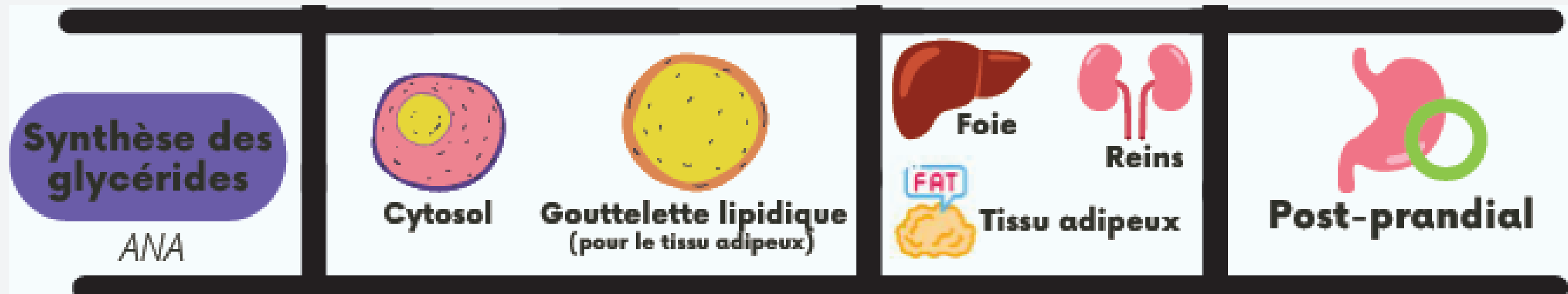
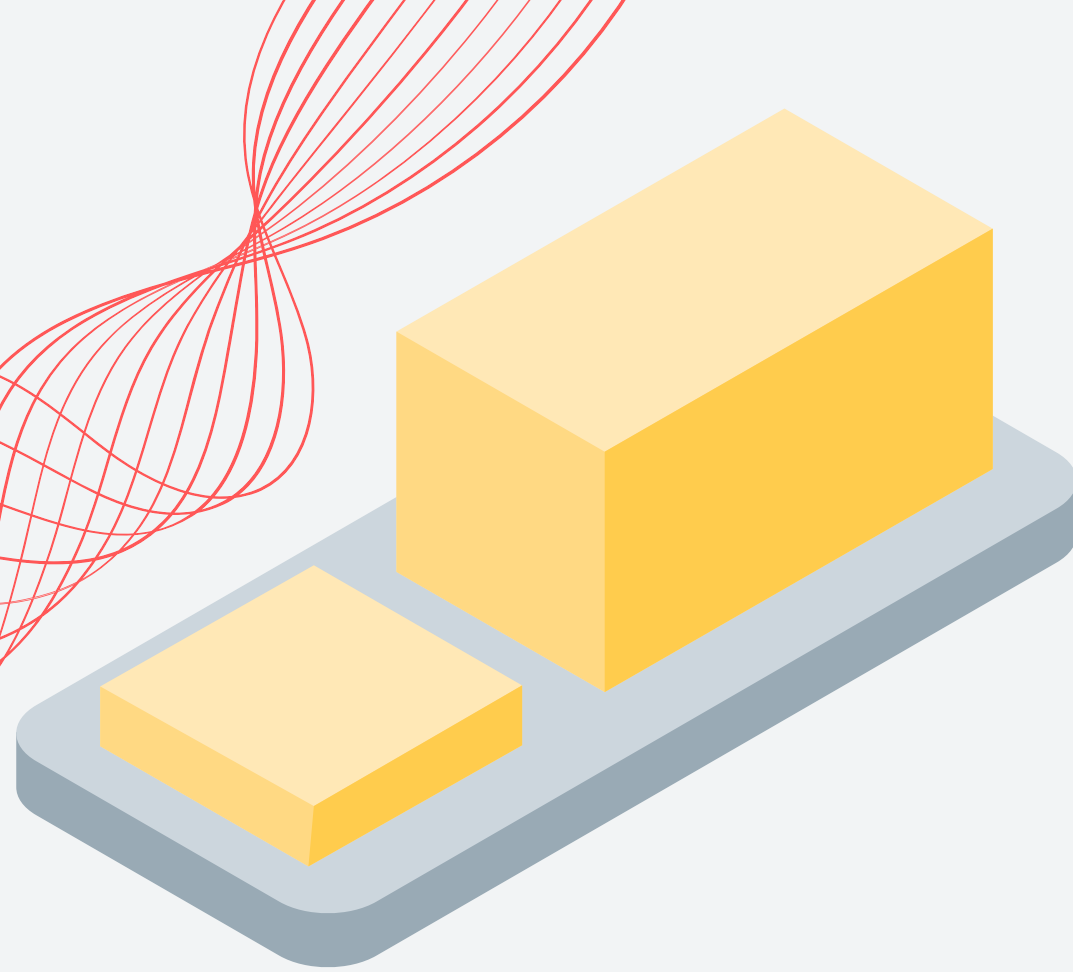


**Mitochondrie**  
(AG courts)

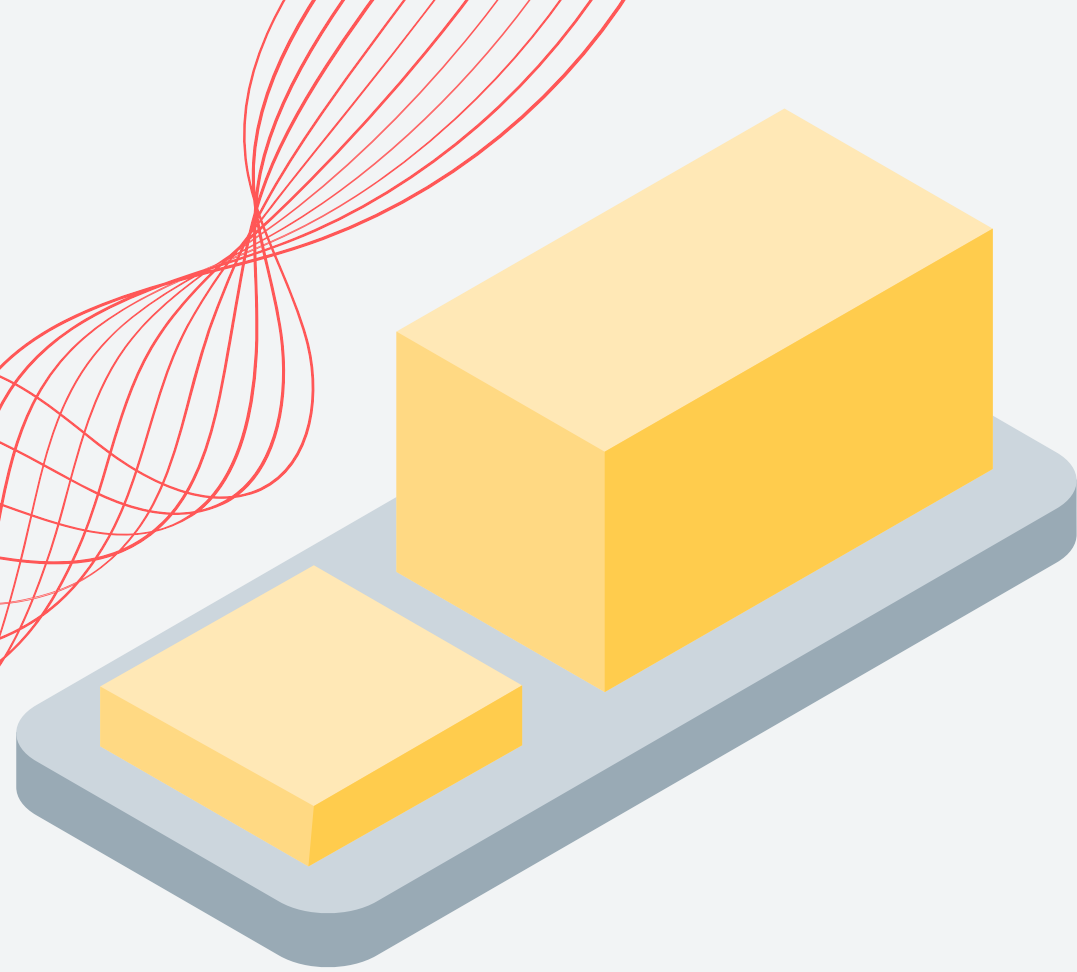
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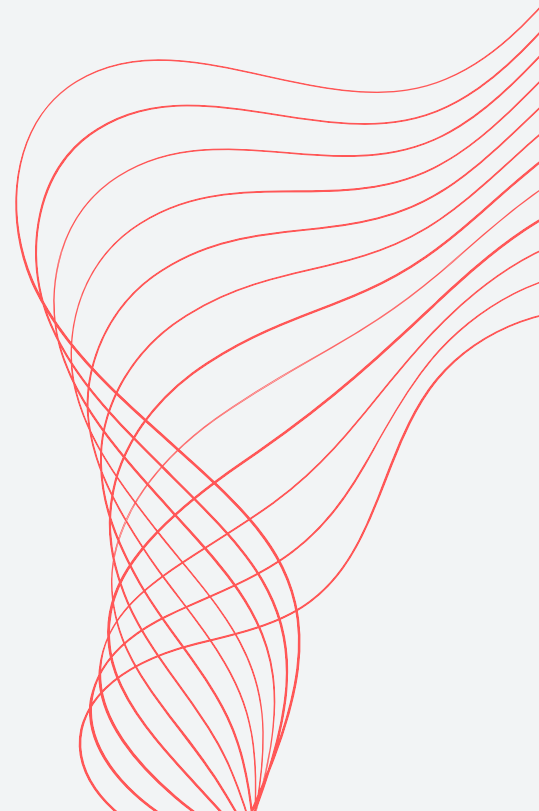
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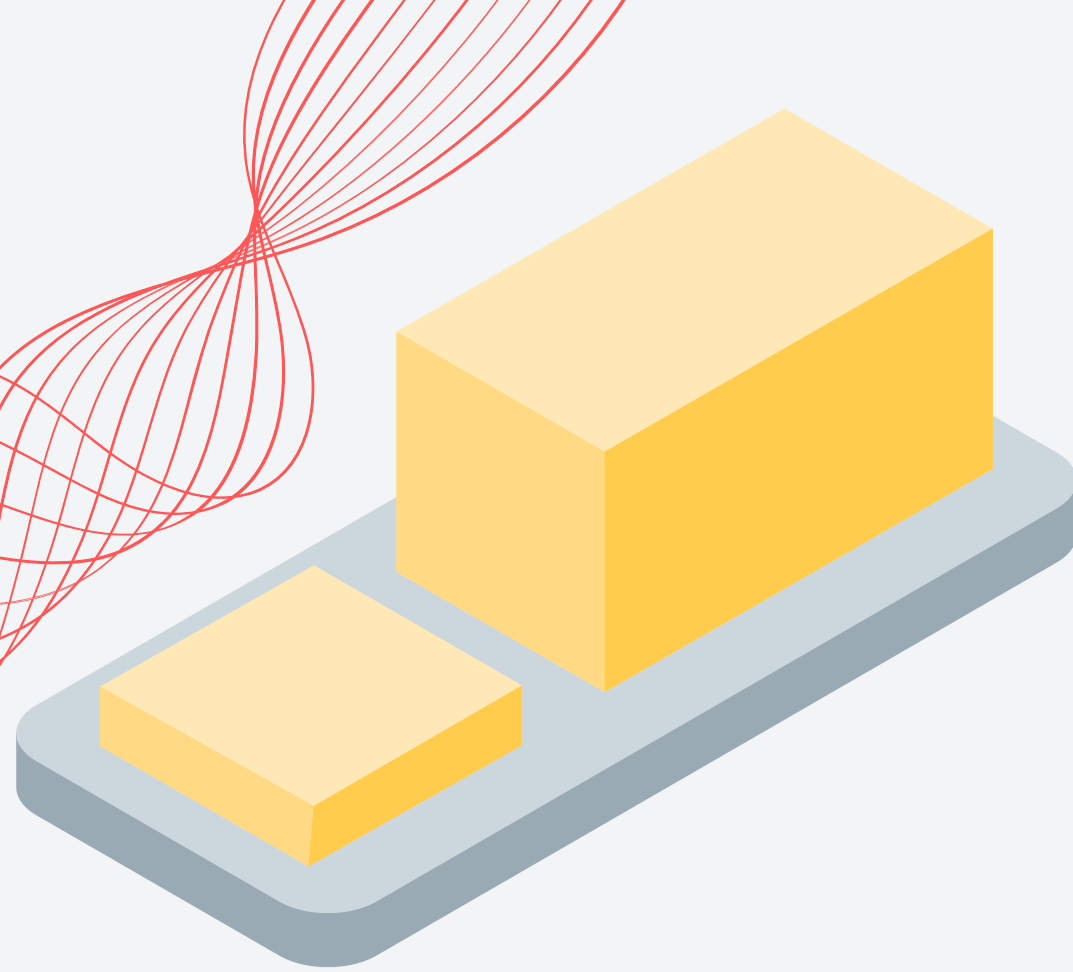
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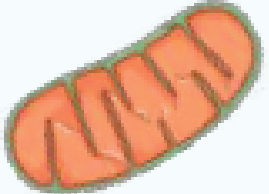
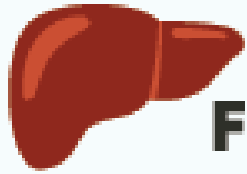








<b>Cétogénèse</b> ANA			
<b>Cétolyse</b> CATA			

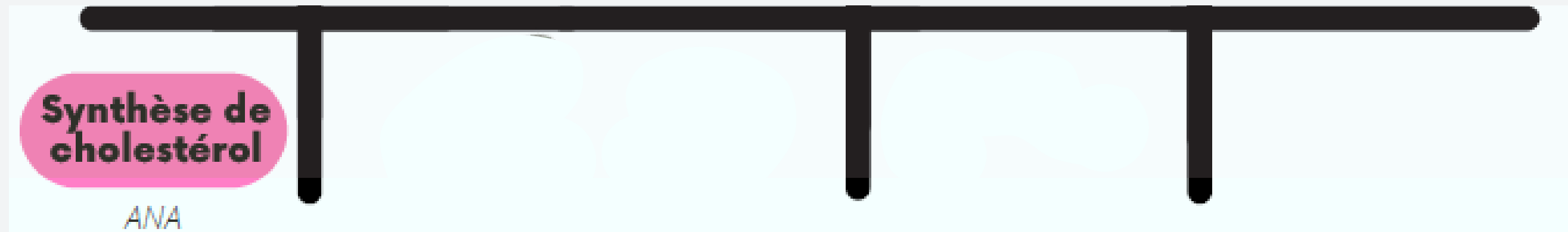
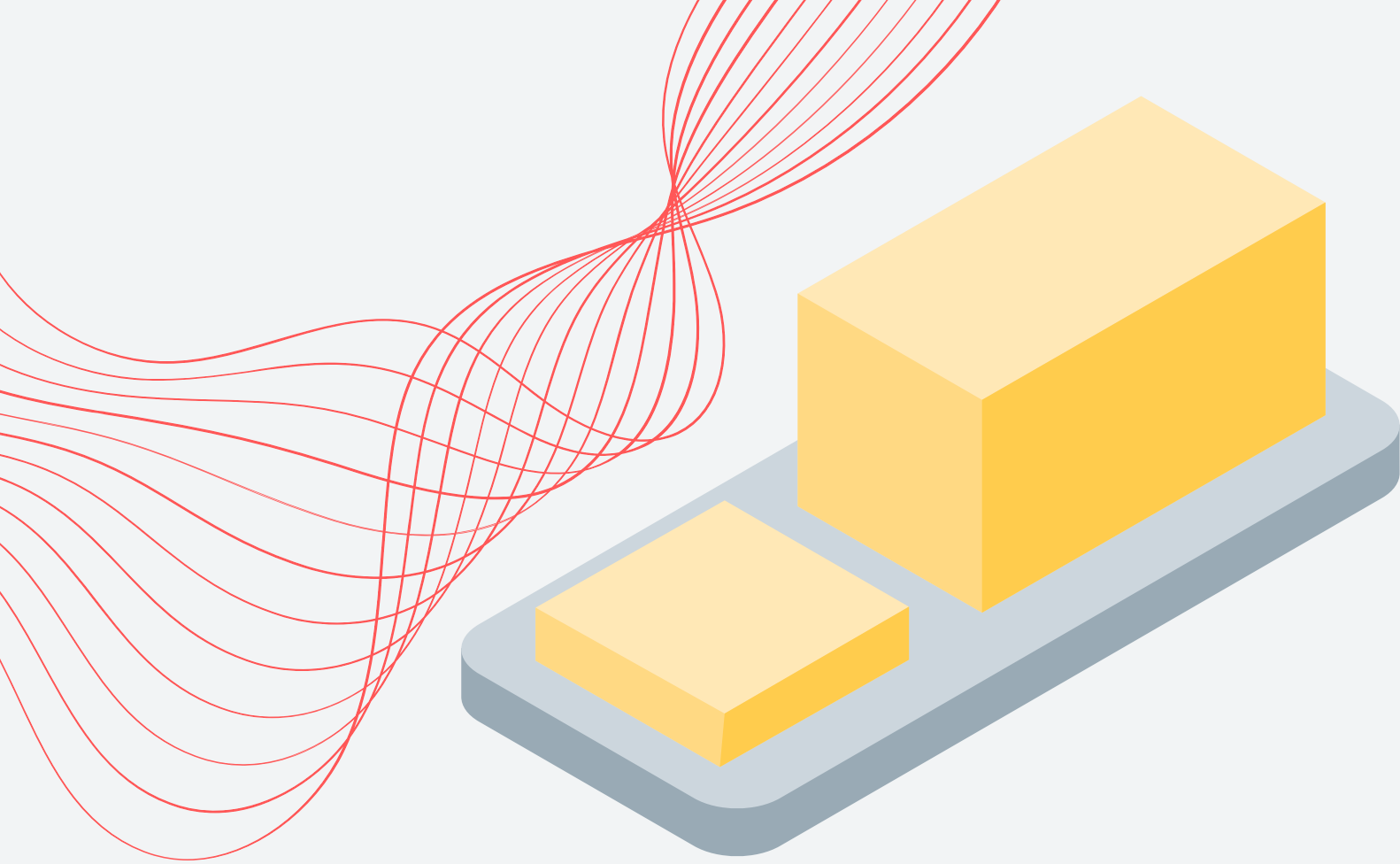


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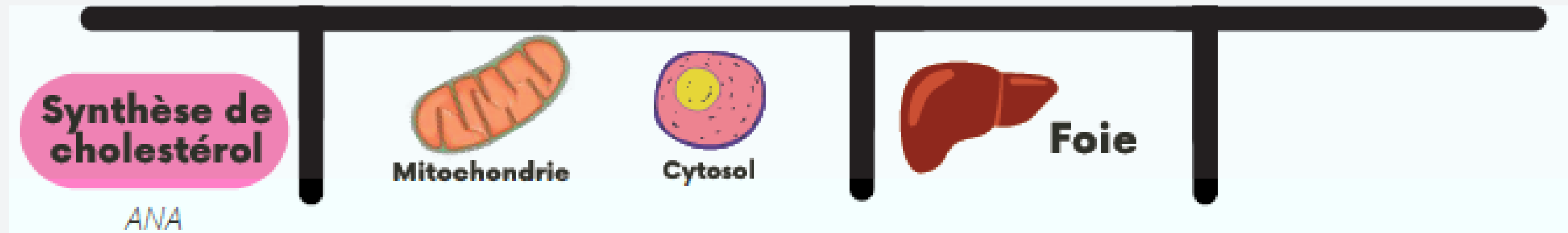
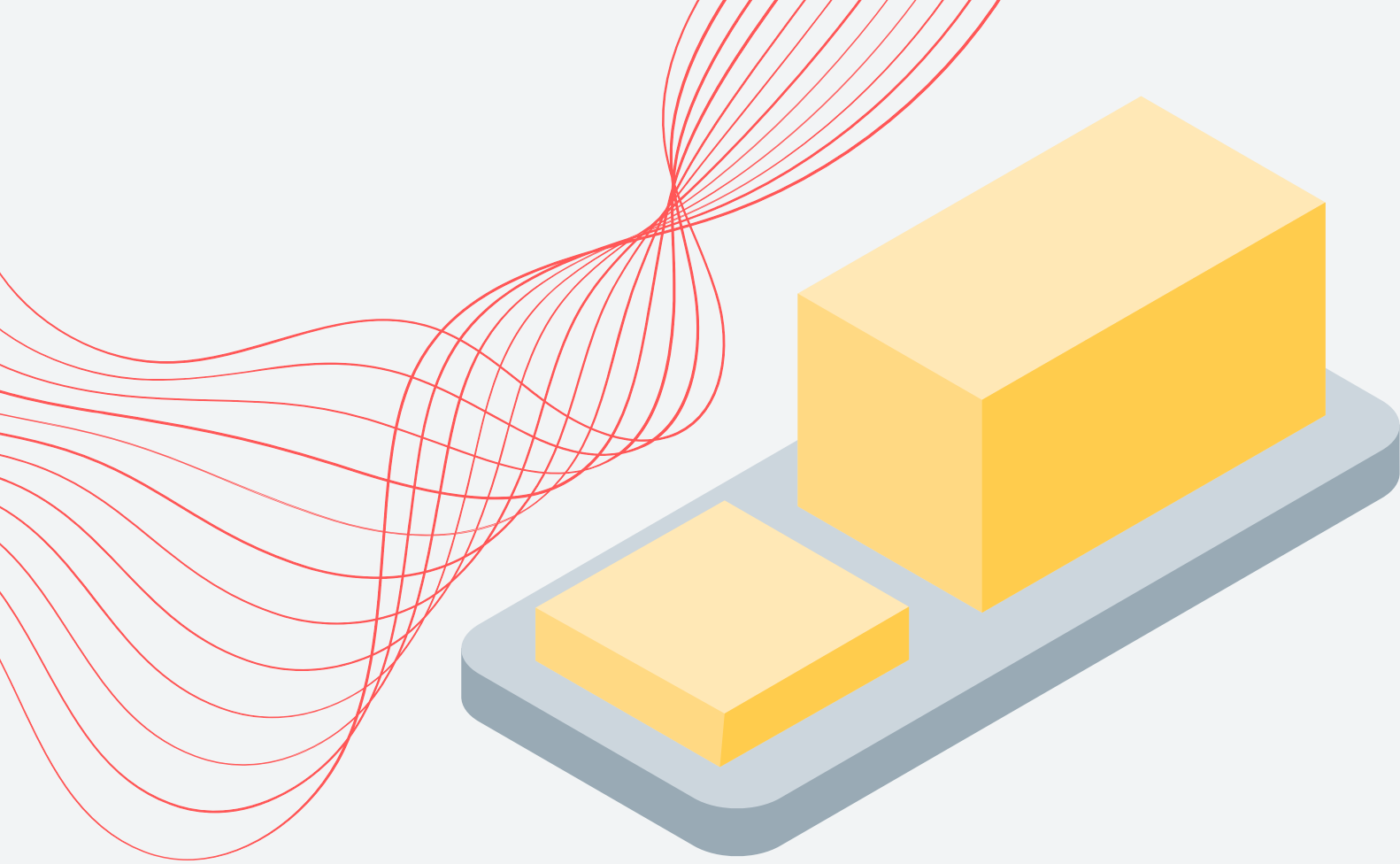


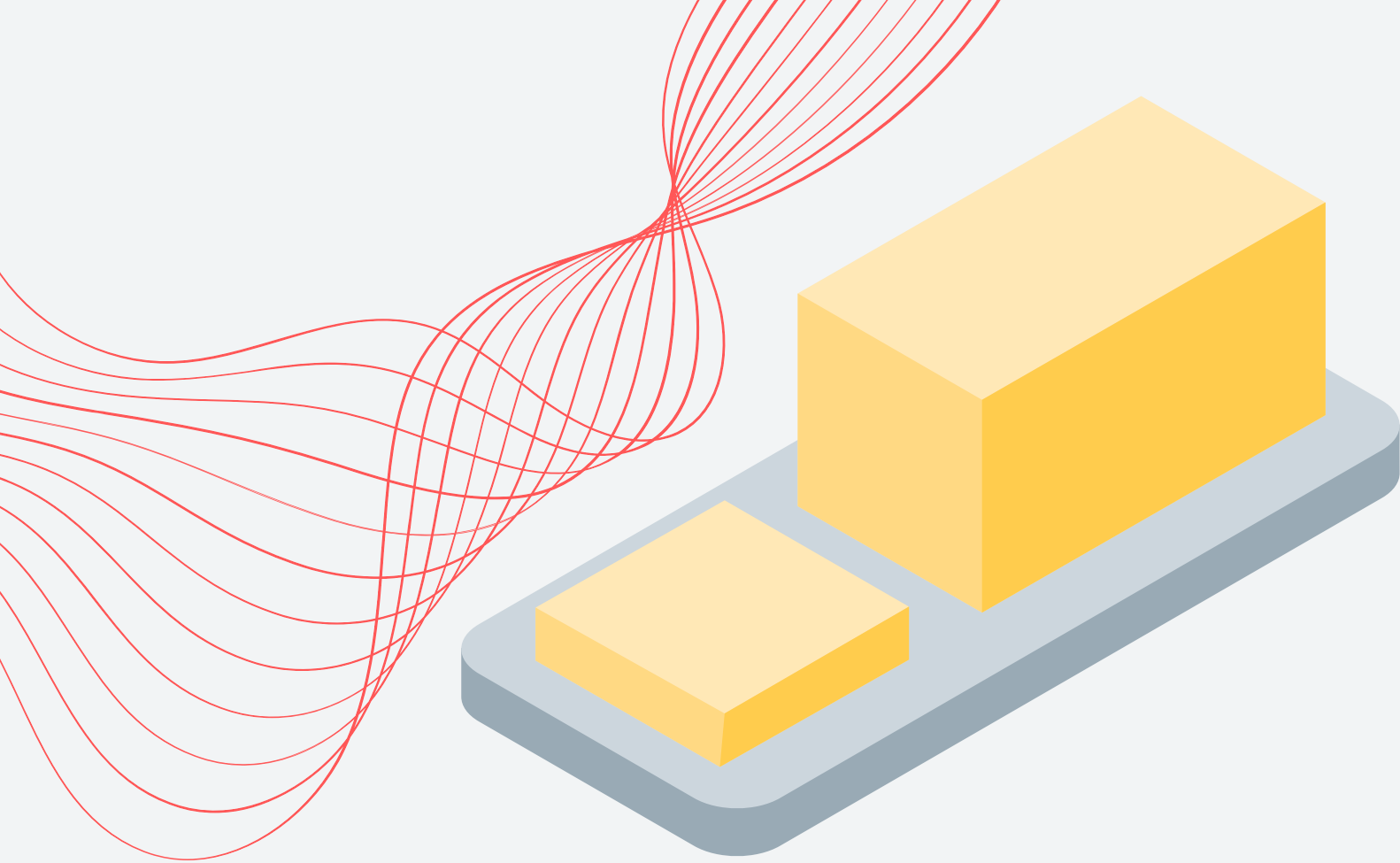
<b>Cétogénèse</b> ANA	 Mitochondrie	 Foie	 Jeûne ou diabète
<b>Cétolyse</b> CATA	 Mitochondrie	Partout sauf foie, surtout :  Intestins  Reins  Muscle  Cerveau	

# MÉTABOLISME LIPIDIQUE



# MÉTABOLISME LIPIDIQUE



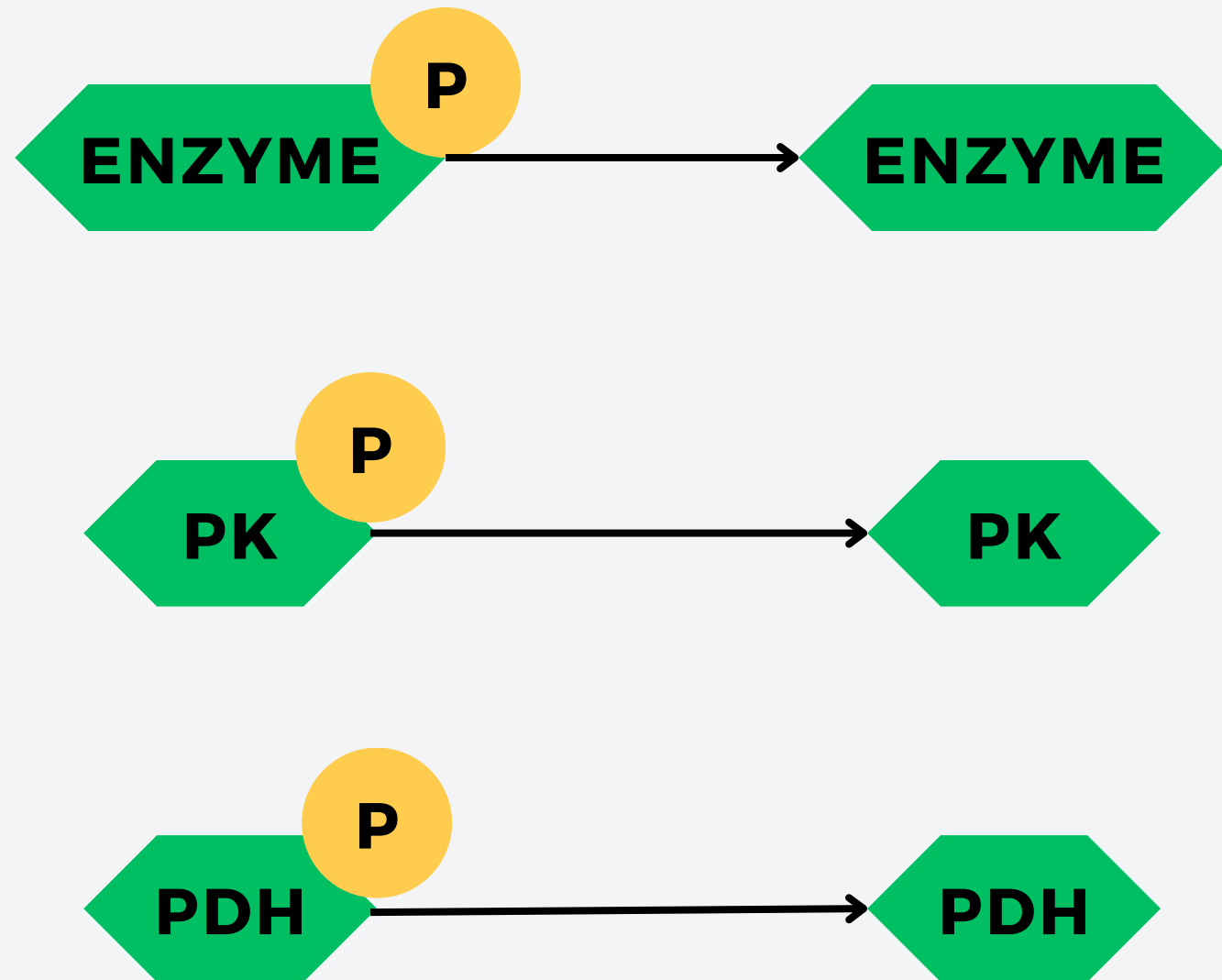


# RECAP MÉTABOLISME LIPIDIQUE

Voie	Compartiment	Organe	Condition
<b>Lipogenèse</b> ANA	Cytosol	Surtout : Tissu adipeux (faiblement) Glande mammaire lactante Foie	Post-prandial
<b>Lipolyse</b> CATA	Cytosol Gouttelette lipidique	Tissu adipeux	Post-absorptif
<b>β-oxydation</b> CATA	Mitochondrie	Muscle Foie (surtout)	Post-absorptif
<b>Élongation des AG saturés</b> ANA	Réticulum endoplasmique (majoritairement) (AG longs) Mitochondrie (AG courts)		
<b>Synthèse des glycérides</b> ANA	Cytosol Gouttelette lipidique (pour le tissu adipeux)	Foie Reins Tissu adipeux	Post-prandial
<b>Cétogénèse</b> ANA	Mitochondrie	Foie	Jeûne ou diabète
<b>Cétolyse</b> CATA	Mitochondrie	Partout sauf foie, surtout : Reins Cerveau Intestins Muscle	
<b>Synthèse de cholestérol</b> ANA	Mitochondrie Cytosol	Foie	

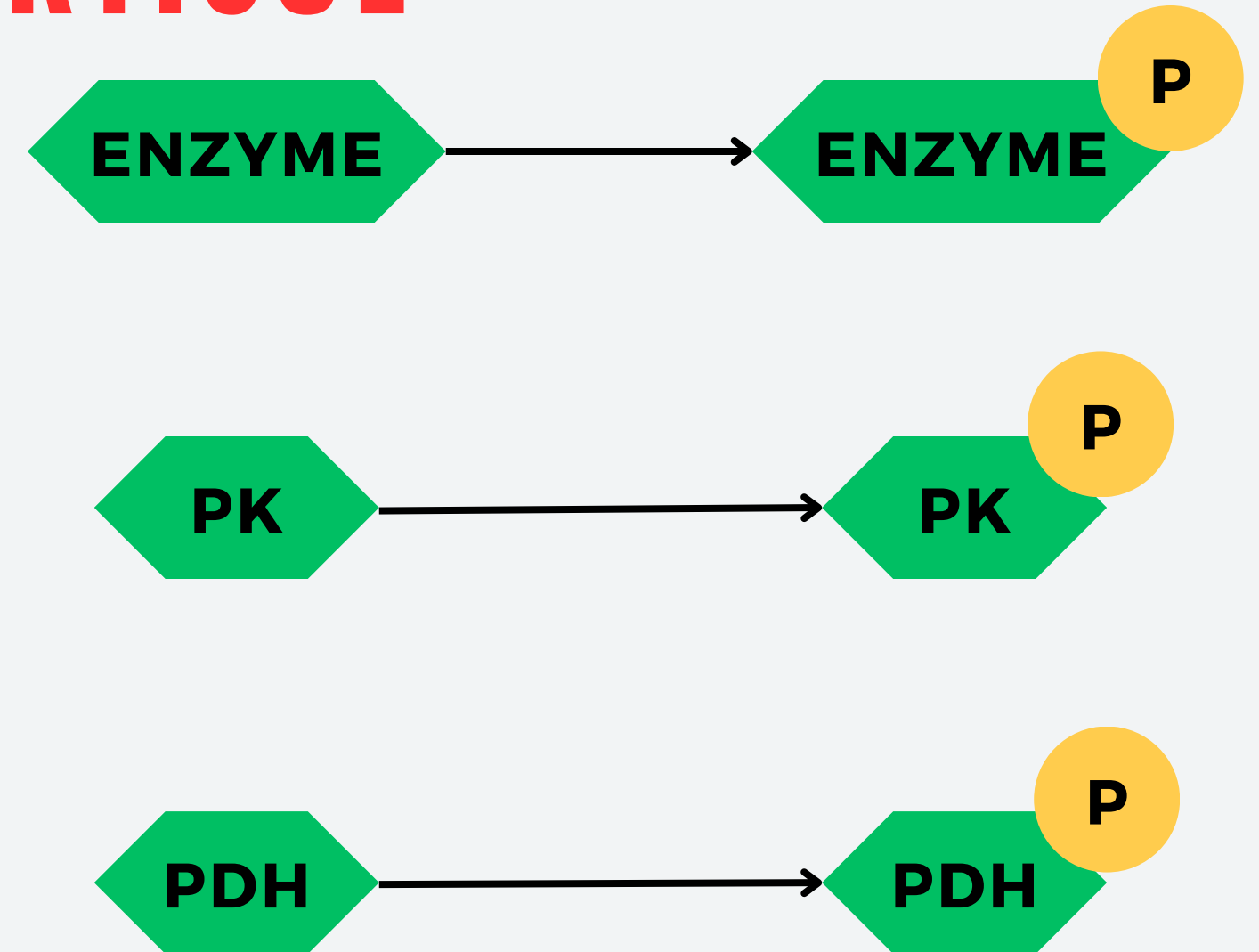
**POST PRANDIAL -> ON  
VEUT ↓ [GLUCOSE]**

**INSULINE**



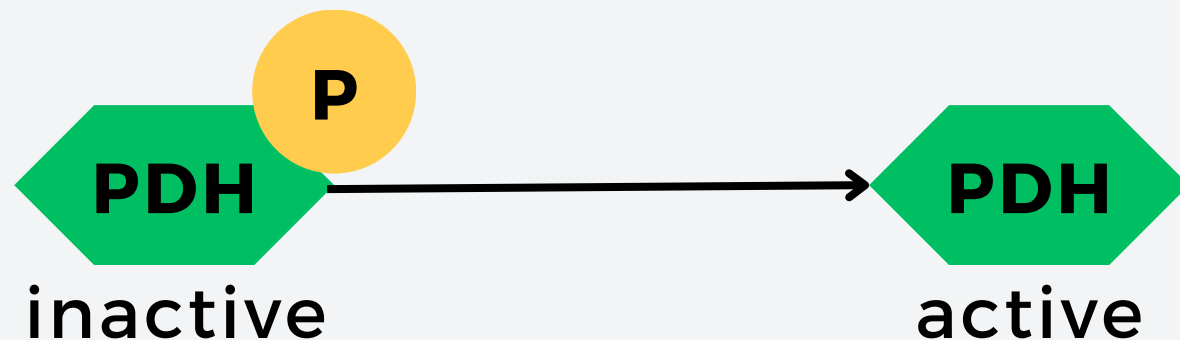
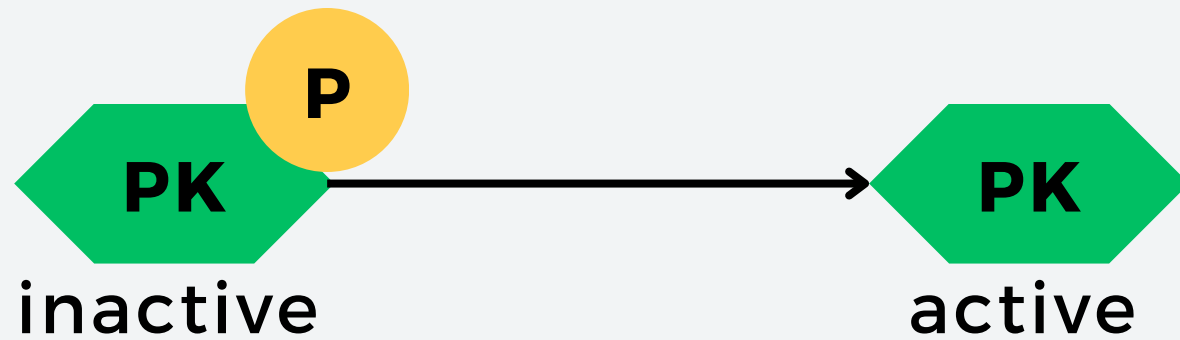
**POST ABSORPTIF -> ON  
VEUT ↑ [GLUCOSE]**

**GLUCAGON, ADRÉNALINE,  
CORTISOL**



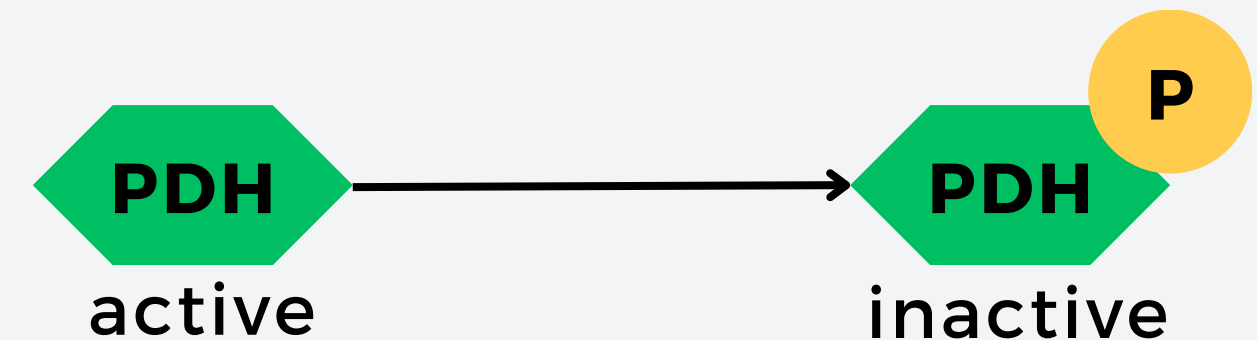
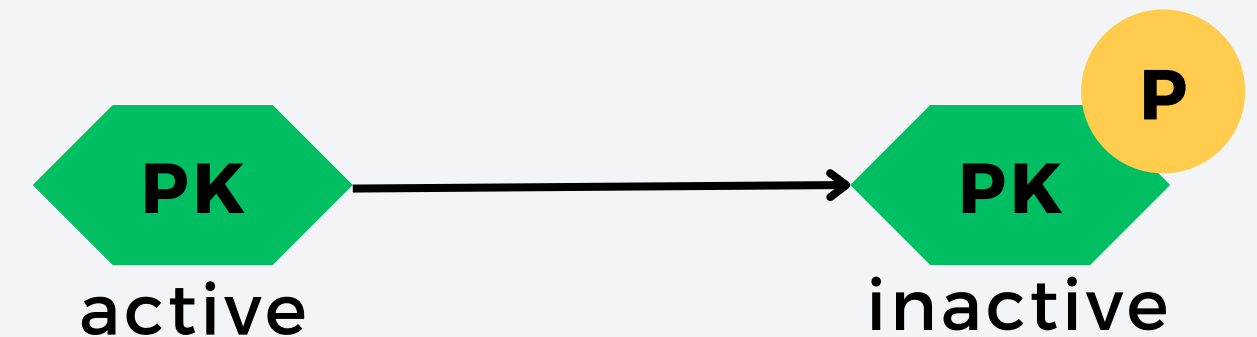
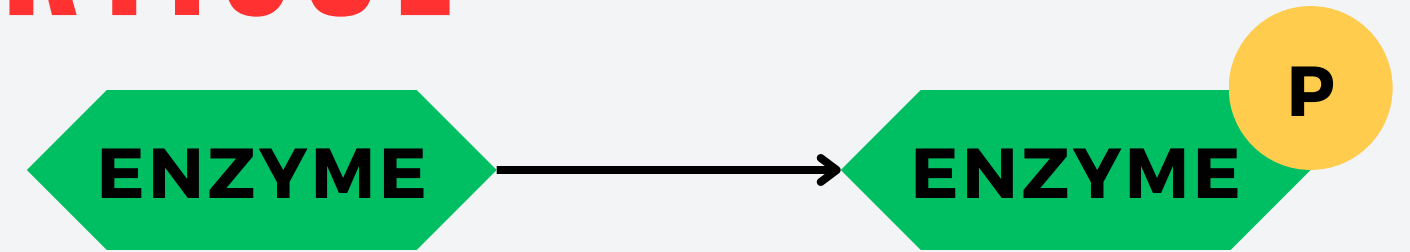
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**INSULINE**



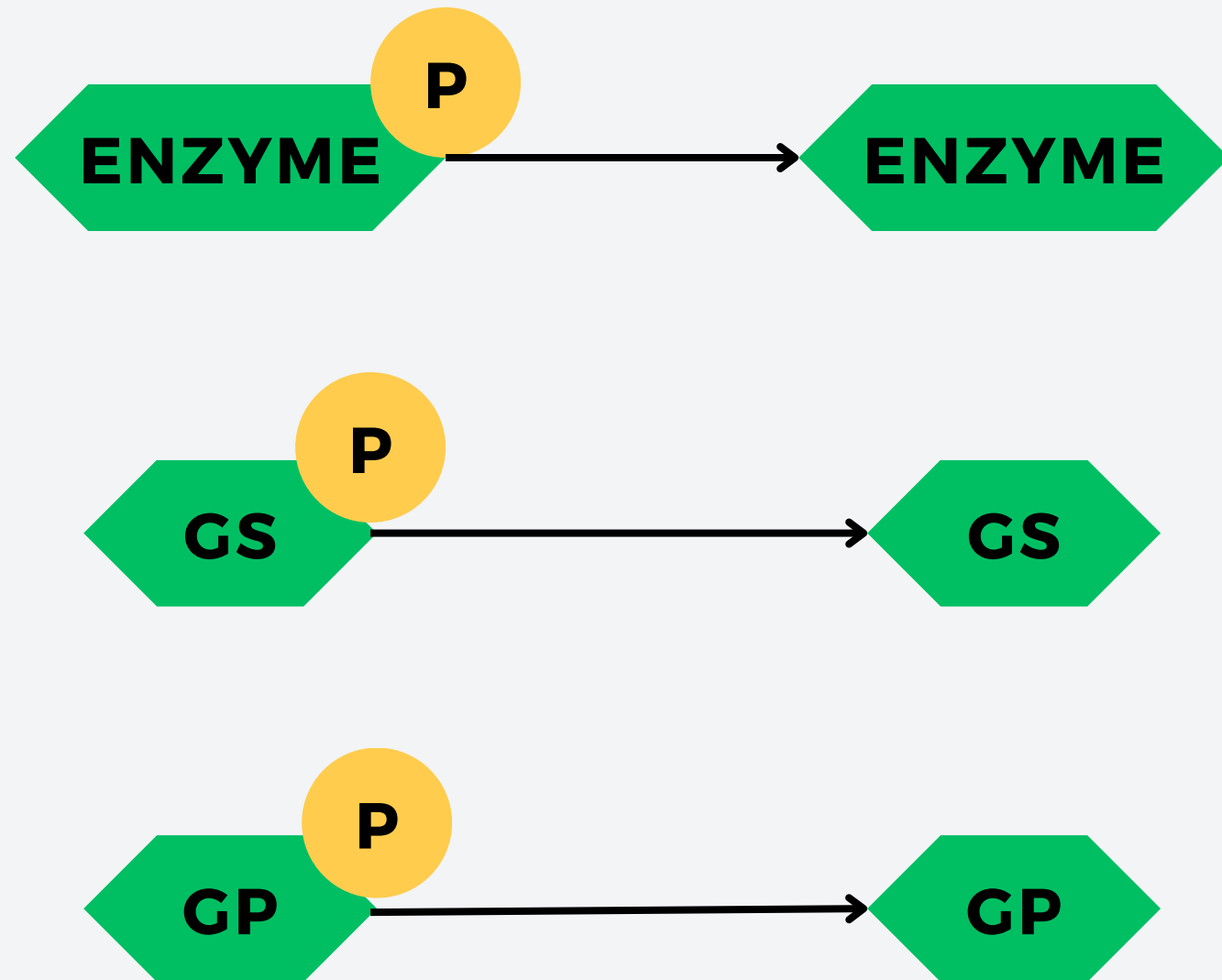
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**GLUCAGON, ADRÉNALINE,  
CORTISOL**



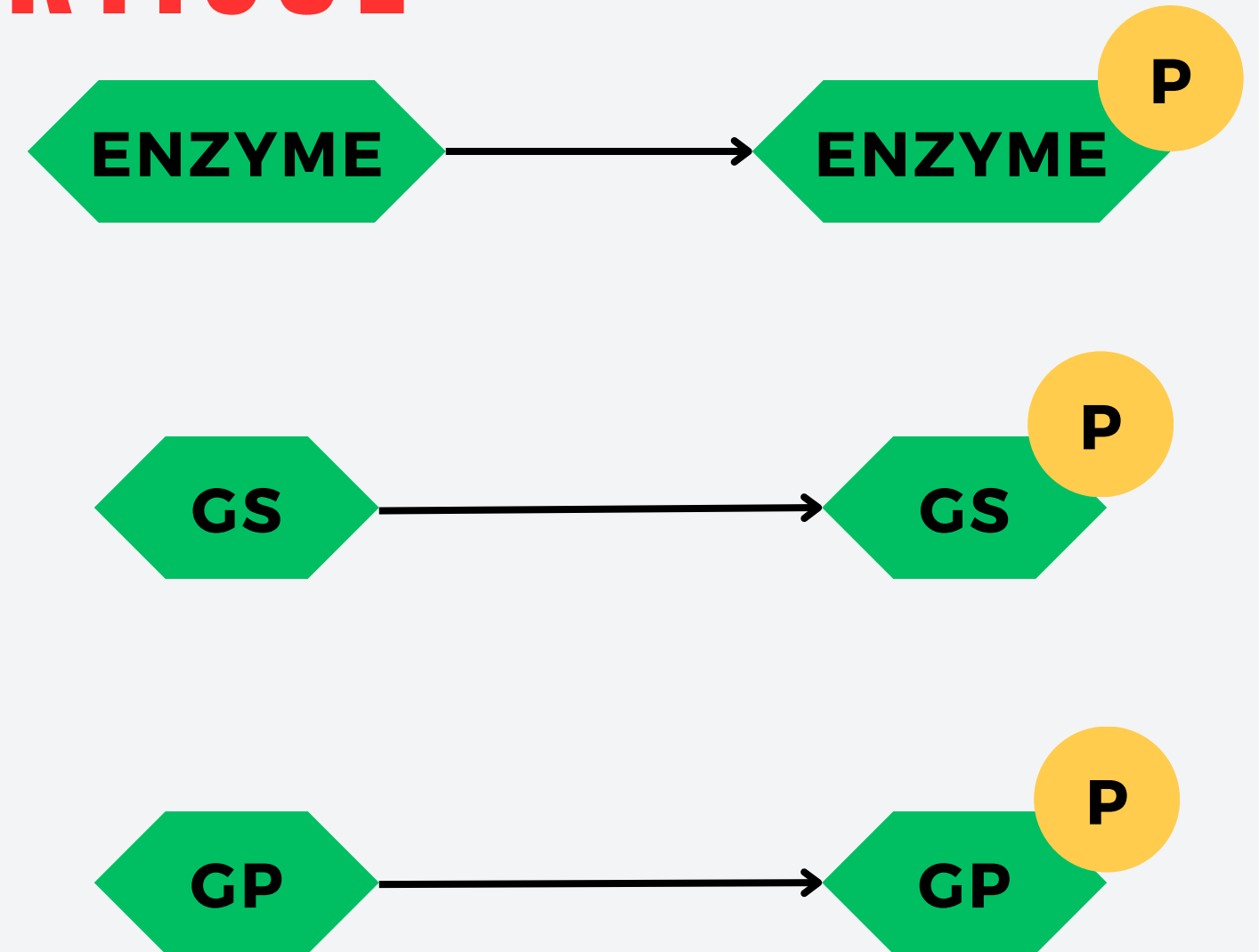
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**INSULINE**



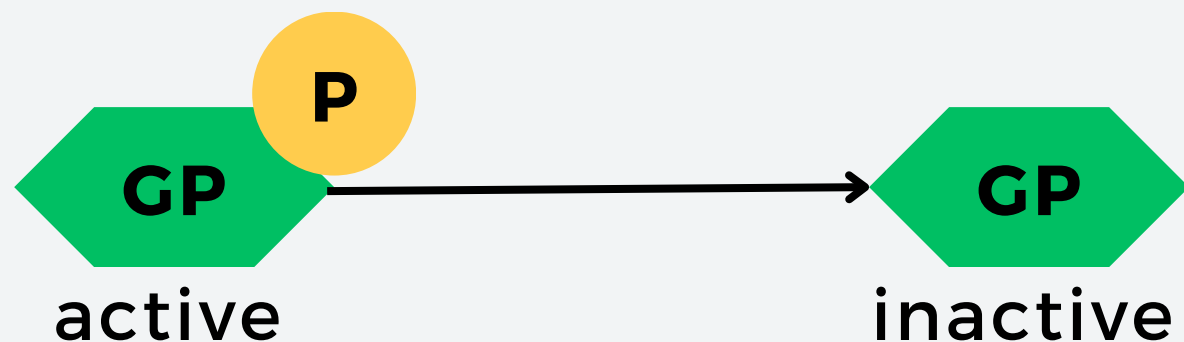
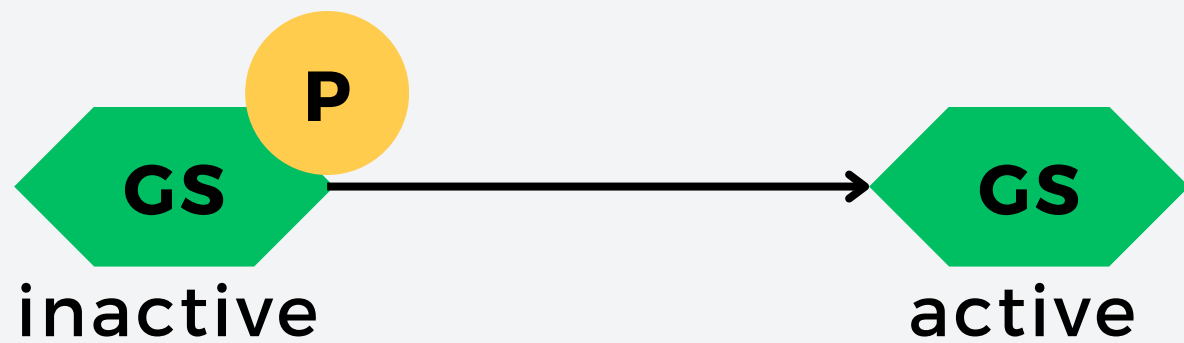
**POST ABSORPTIF -> ON  
VEUT ↑ [GLUCOSE]**

**GLUCAGON, ADRÉNALINE,  
CORTISOL**



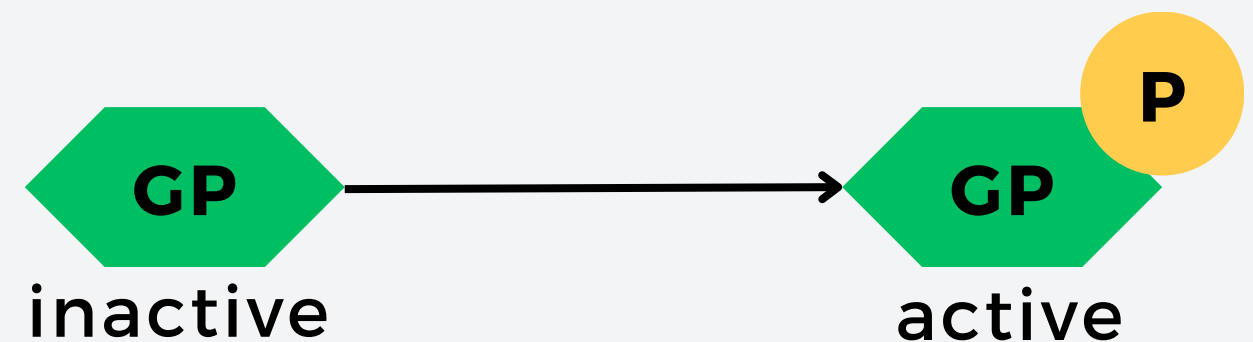
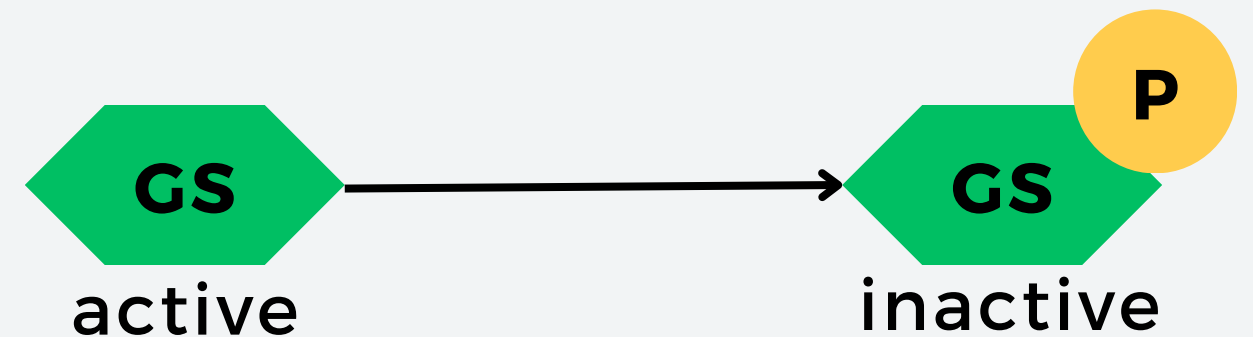
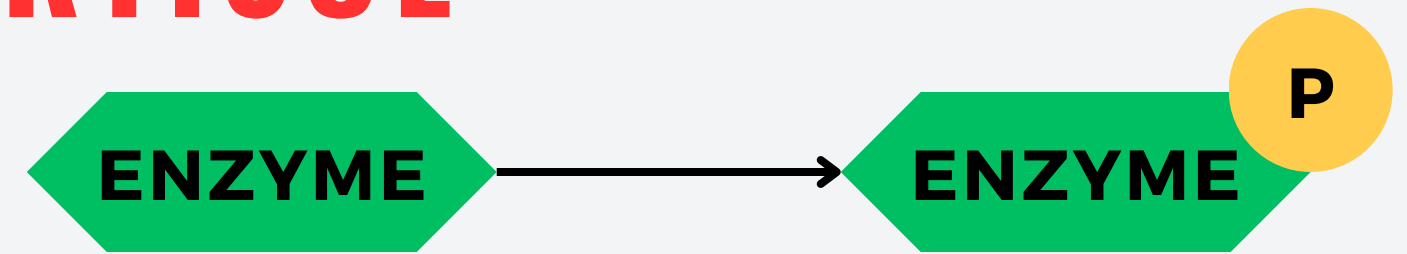
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INSULINE



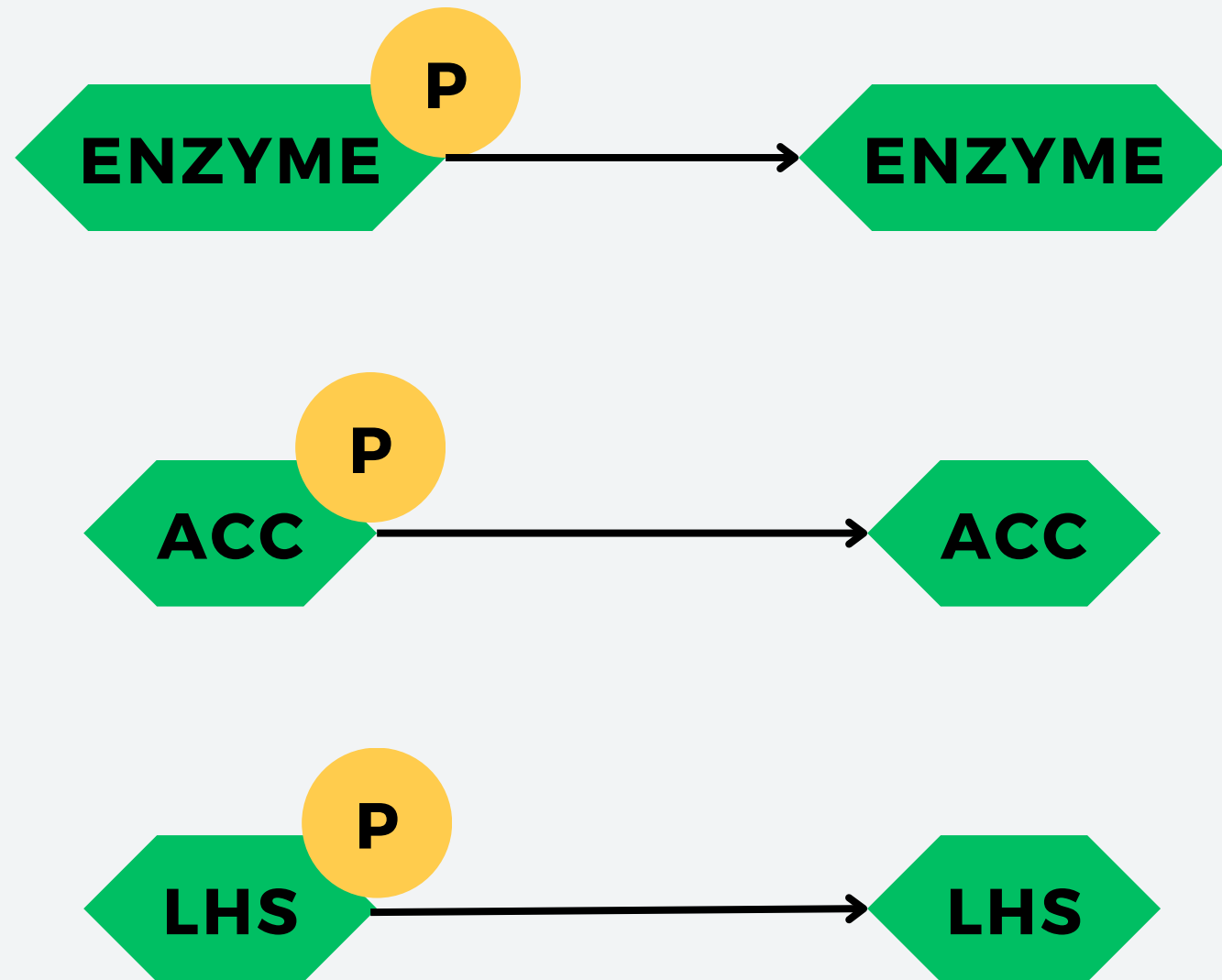
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GLUCAGON, ADRÉNALINE,  
CORTISOL



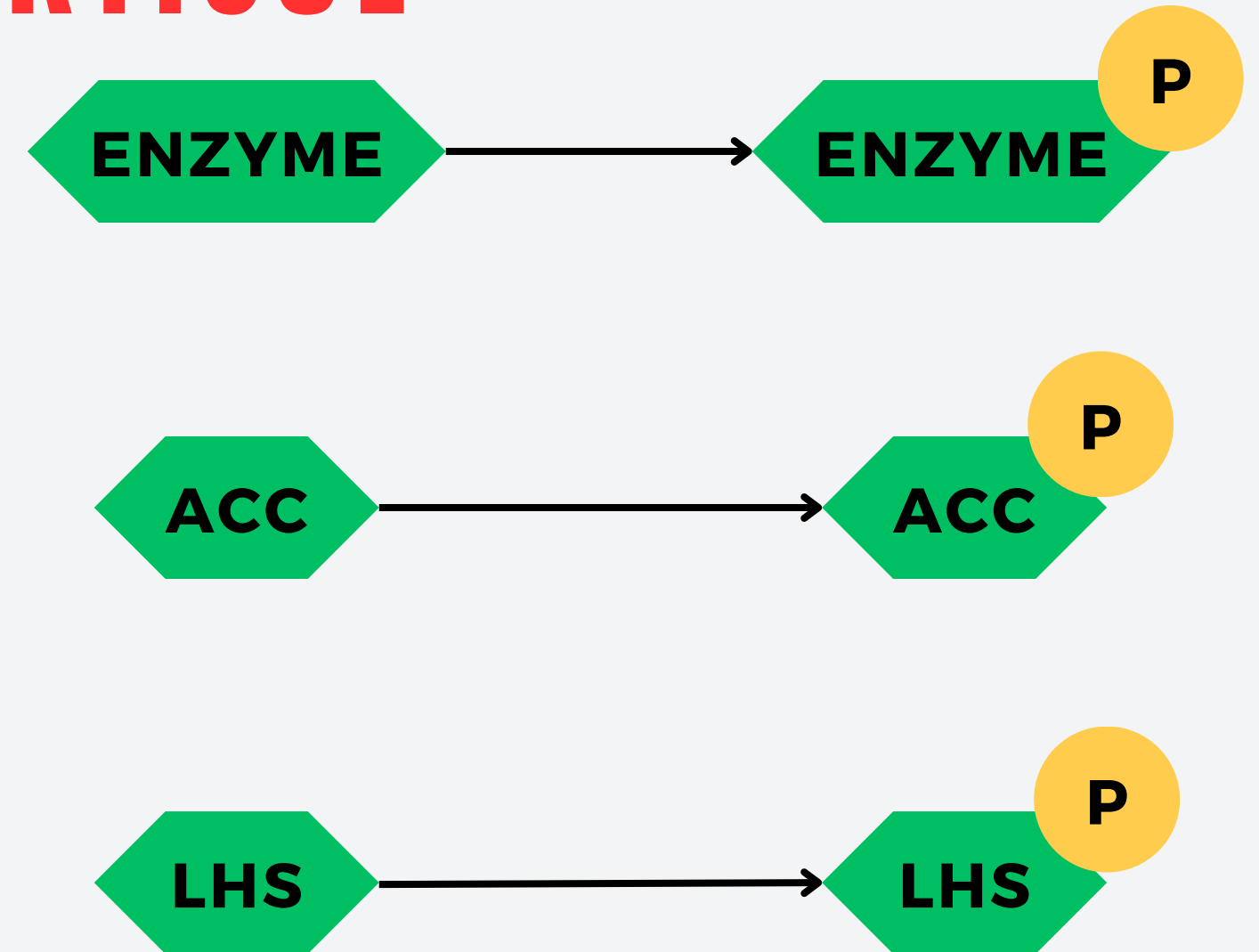
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**INSULINE**



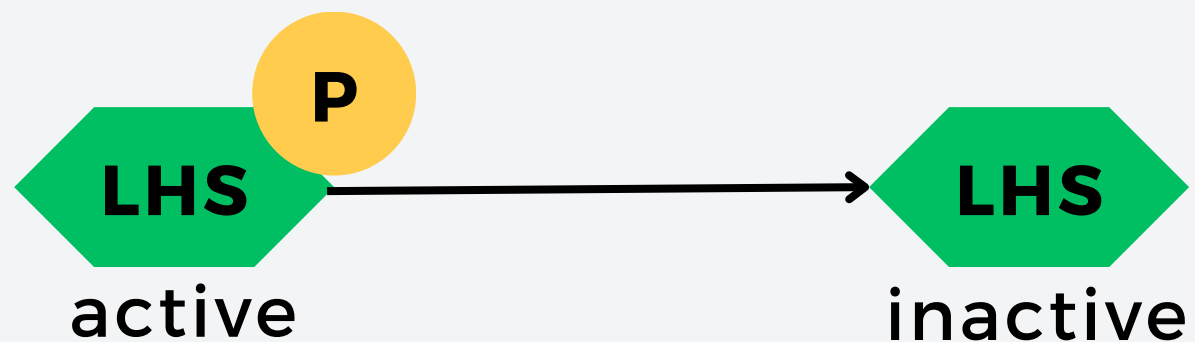
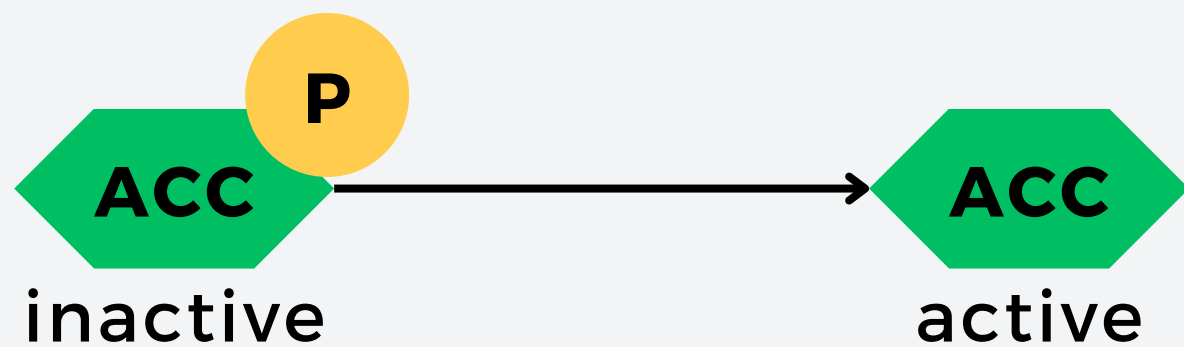
**POST ABSORPTIF -> ON  
VEUT ↑ [GLUCOSE]**

**GLUCAGON, ADRÉNALINE,  
CORTISOL**



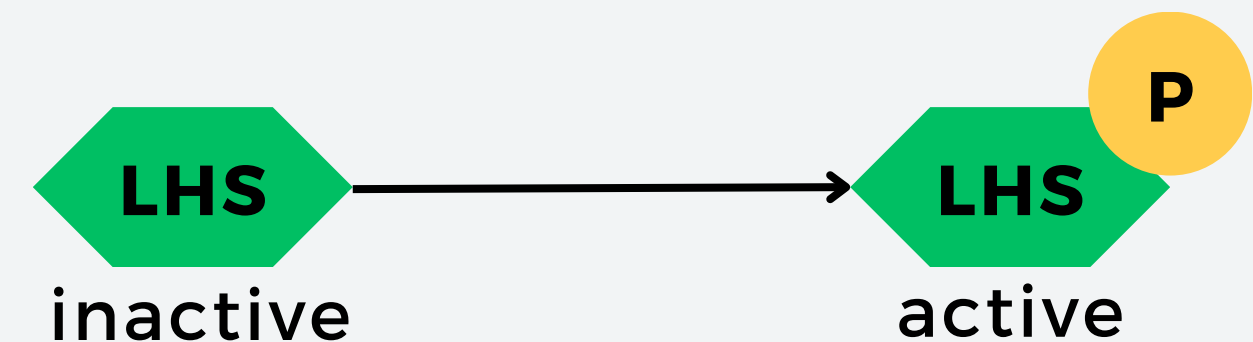
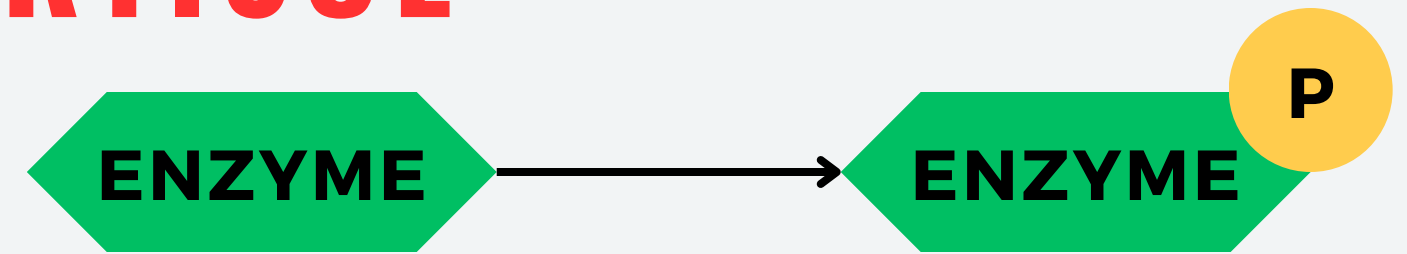
POST PRANDIAL -> ON  
VEUT ↓ [GLUCOSE]

INSULINE



POST ABSORPTIF -> ON  
VEUT ↑ [GLUCOSE]




GLUCAGON, ADRÉNALINE,  
CORTISOL



# ITEM VRAI OU FAUX ?

La phosphorylation de la glycogène synthase permet son activation

Méthode n°1 : On cherche la bonne réponse puis on compare avec l'item

- activation de la GS -> 
- situation ? GGG donc post-prandial
- quelle hormone ? insuline -> 
- compilé : 



**FAUX**

# ITEM VRAI OU FAUX ?

**La phosphorylation de la glycogène synthase permet son activation**

**Méthode n°2 : On prend les données de l'item à part**

- **phosphorylation -> glucagon**
- **activation GS donc on favorise a GGG -> situation post prandiale**
- **glucagon et post prandial dans le même item, ça ne colle pas**



**FAUX**