

# Inserm



French Institute  
of Health and Medical Research

**Research Unit 317**

Fat Cell Biology, Adipose Tissue  
Physiology and Obesity  
Toulouse, France

## **Contrôle neuro-humoral de la lipolyse**

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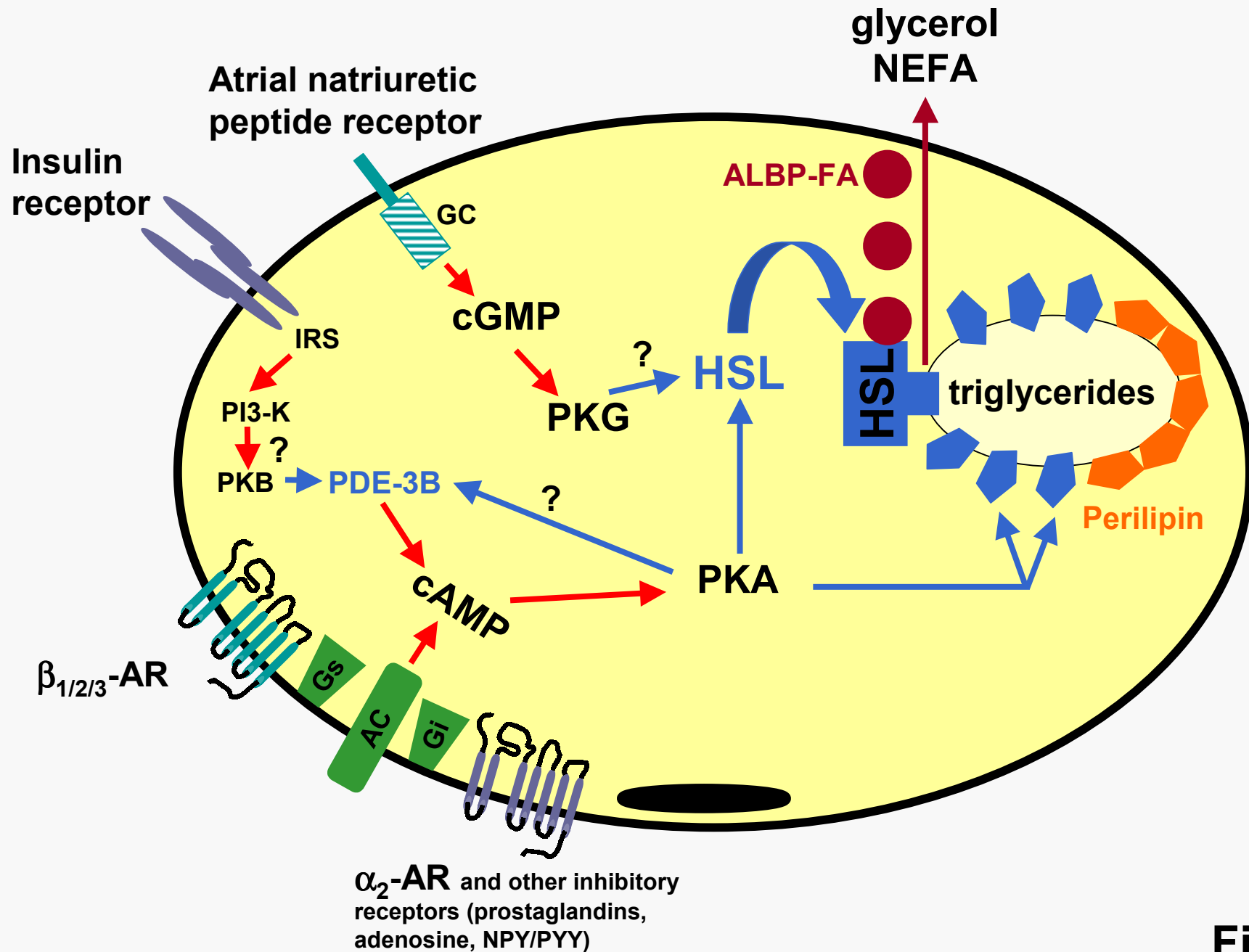


Figure 1

# Hormone-sensitive lipase expression in humans

Strong relationship between HSL expression  
and maximal lipolysis rate

## HSL and lipolysis

Non-obese subjects with family trait  
for overweight



Obesity



Calorie restriction (4 weeks)



Figure 2

# Control of hormone-sensitive lipase expression

Induction of HSL expression during murine and human adipocyte differentiation

## HSL mRNA and activity levels

cAMP



Phorbol esters



Glucose



Insulin, fatty acids



Figure 3