

## Slow-wave sleep

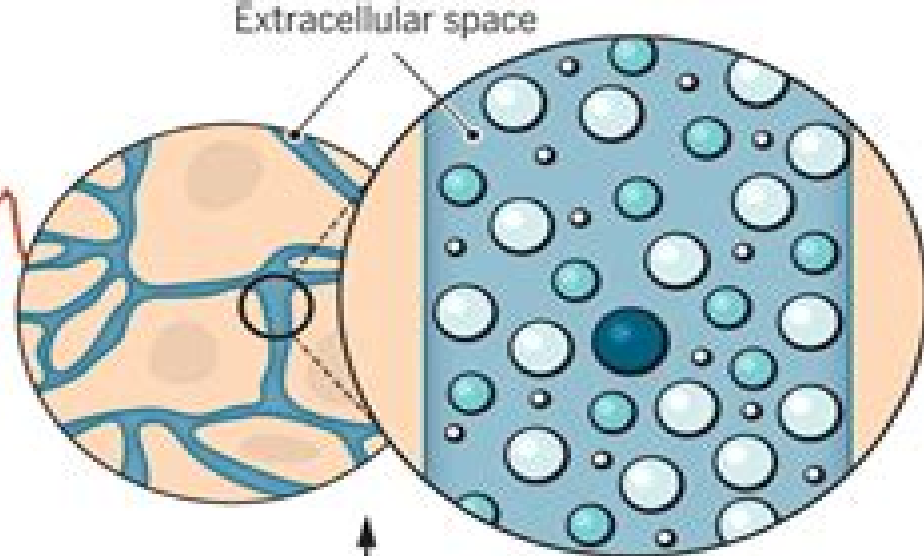


Electrical activity (EEG)

**Decreased**  
neuromodulator  
activity

Neuromodulators  
produced by  
basal forebrain,  
hypothalamus,  
and brain stem

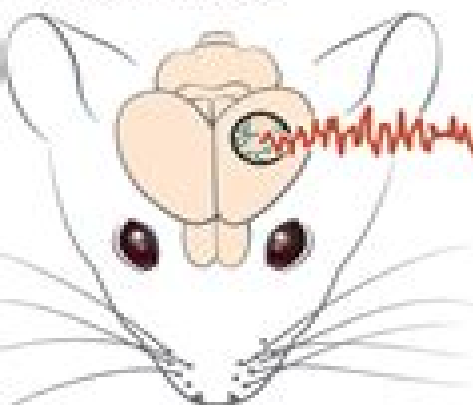
Acetylcholine  
Hypocretin  
Histamine  
Serotonin  
Noradrenaline



**Sleep-wakefulness**  
transitions are accompanied  
by changes in extracellular  
space volume and concentration  
of extracellular ions

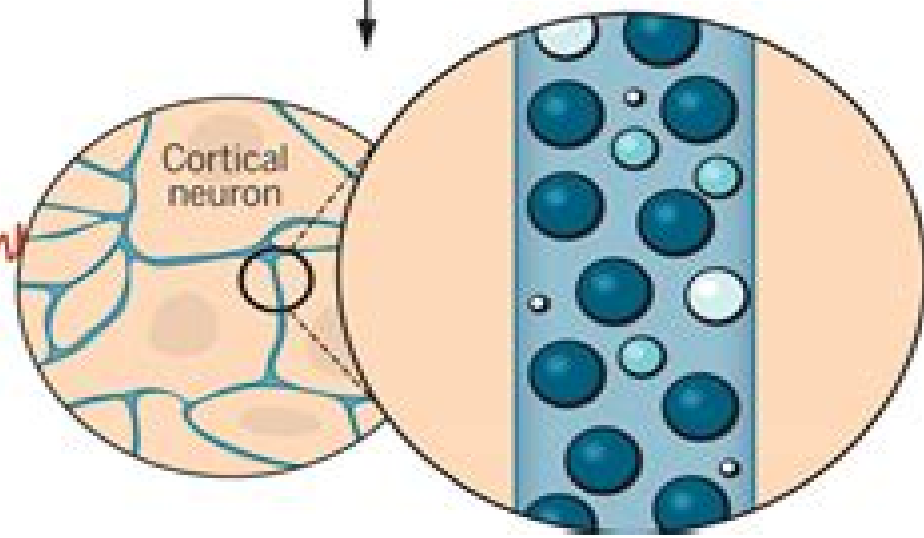
$K^+$   
 $Ca^{2+}$   
 $Mg^{2+}$   
 $H^+$

## Wakefulness



**Increased**  
neuromodulator  
activity

Electrical activity (EEG)



# Sleep And Wakefulness

**Xiang Xie**



## **Sleep And Wakefulness:**

Immerse yourself in heartwarming tales of love and emotion with Crafted by is touching creation, Experience Loveis Journey in **Sleep And Wakefulness** . This emotionally charged ebook, available for download in a PDF format ( \*), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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