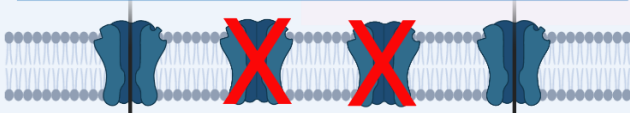


↓ ↓ ↓ ↓ ↓  
Oxidative Stress  
Apoptosis

↓ ↓ EROS

*KA seizure without Melatonin pretreatment*

*Melatonin pretreatment on KA-induced seizures*



Glu Na<sup>+</sup>      Glu Na<sup>+</sup>

Glu Na<sup>+</sup>      Glu Na<sup>+</sup>      Glu Na<sup>+</sup>      Glu Na<sup>+</sup>

↓  
Glutamate uptake

↑  
Glutamate uptake

↑  
DCFH

↑  
TBARS

↓  
DCFH

↓  
TBARS

↓  
SOD/CAT

↓  
GPx  
GS

↑  
SOD/CAT

↑  
GPx  
GS