

## **Low Level Laser Therapy Know Physiology**

### **1) Increased ATP**

The Universal Mechanism  
Cytochrome c Oxidase

Improves Strength  
Improves Range of Motion  
Accelerates Healing  
Enhances Gene Expression: immunity, neurotransmitters, hormones, etc.  
Sodium Pump: pain inhibition  
Aspartate/Glutamate Pump: reduces neurodegenerative diseases  
Reduces Free Radical Production

### **2) Inhibits COX enzymes / inflammatory eicosanoids**

Pain Control  
Cancer Connection  
Reduces Free Radical Production  
Degenerative Joint Disease—Artery Disease—Autoimmunity—  
Neurodegeneration, etc.

### **3) Upregulates the Endogenous Antioxidant Array**

Glutathione  
    Master Antioxidant  
    Master Detoxification

### **4) Scar Tissue Degradation**

Improves Range of Motion  
  
Improves Local Mechanoreception and Systemic Neurology  
  
Visceral Applications

### **5) Improve Neuron Function**

Action Potential  
Synaptogenesis/Neuroplasticity

### **6) Upregulates Hormone Sensitive Lipase**

Lipolysis