



OrthoPulse®

The science in OrthoPulse®

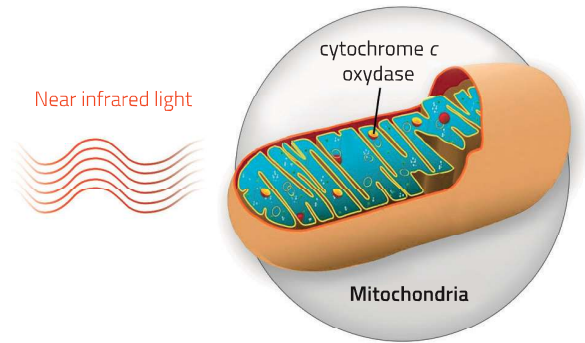
1

Near infrared light, at a wavelength of 850 nm, penetrates the gingiva mucosa and bone



2

The light enters the cells' mitochondria, and is absorbed by cytochrome c oxidase (CCO) **increasing its activity**



3

At least two important molecules are impacted:

ATP

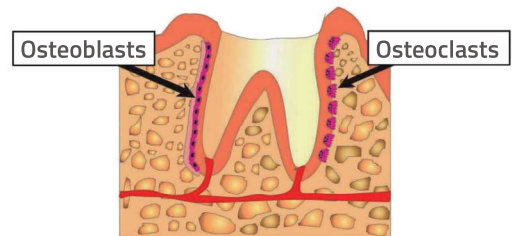
Production of **Adenosin Triphosphate** increases, **accelerating the healing process**

N O

Nitric Oxide releases, a potent vasodilator, enhancing the **transport of oxygen** and nutrients while **increasing blood flow to the tissues**

4

Proliferation and activity of osteoblasts and osteoclasts increase orthodontic bone remodeling



OrthoPulse accelerates tooth movement and reduces treatment pain.

orthopulse.com

