

celluma<sup>®</sup>



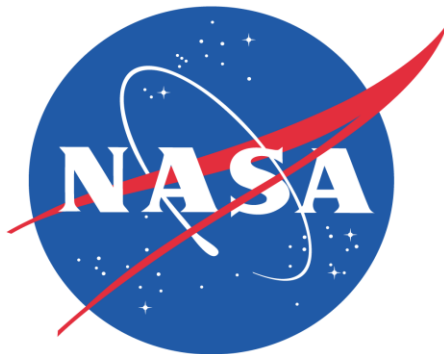
**Award Winning  
Light Therapy!**

***Illuminating Vitality***



## The application of specific wavelengths of light to tissue to obtain therapeutic benefits

- Category: Low Level Light Therapy
- Includes LED & Cold LASER (under 1W power)
- Treats Acne, Wrinkles & Pain & more
- Great for pets too



*“The day may not be far off when most homes will have a light source (most likely a LED device) to be used for aches, pains, cuts, bruises, joints, and which can also be applied to the hair and even transcranially to the brain”.*

**Note: this is the closing comment from a collaborative study conducted by researchers at Boston’s Mass General Hospital, the Harvard School of Medicine and the Harvard-MIT Division of Health & Sciences**

(Annals of Biomedical Engineering, Feb 2012. The Nuts & Bolts of Low Level Laser (Light) Therapy)



MASSACHUSETTS  
GENERAL HOSPITAL

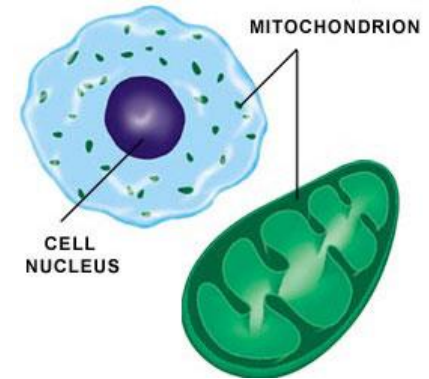


HARVARD  
MEDICAL SCHOOL

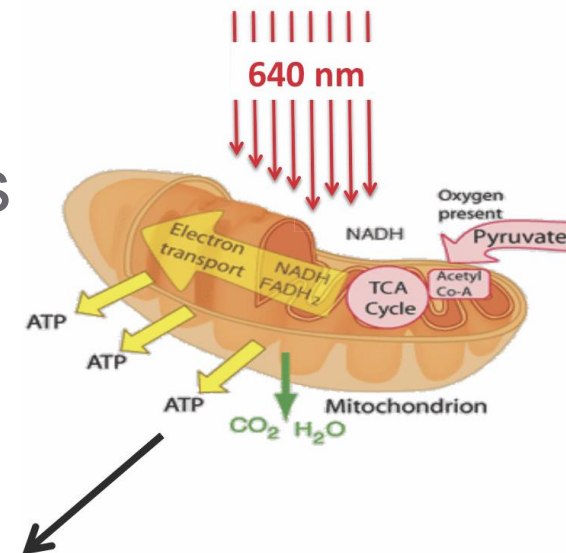
Wellman Center for Photomedicine

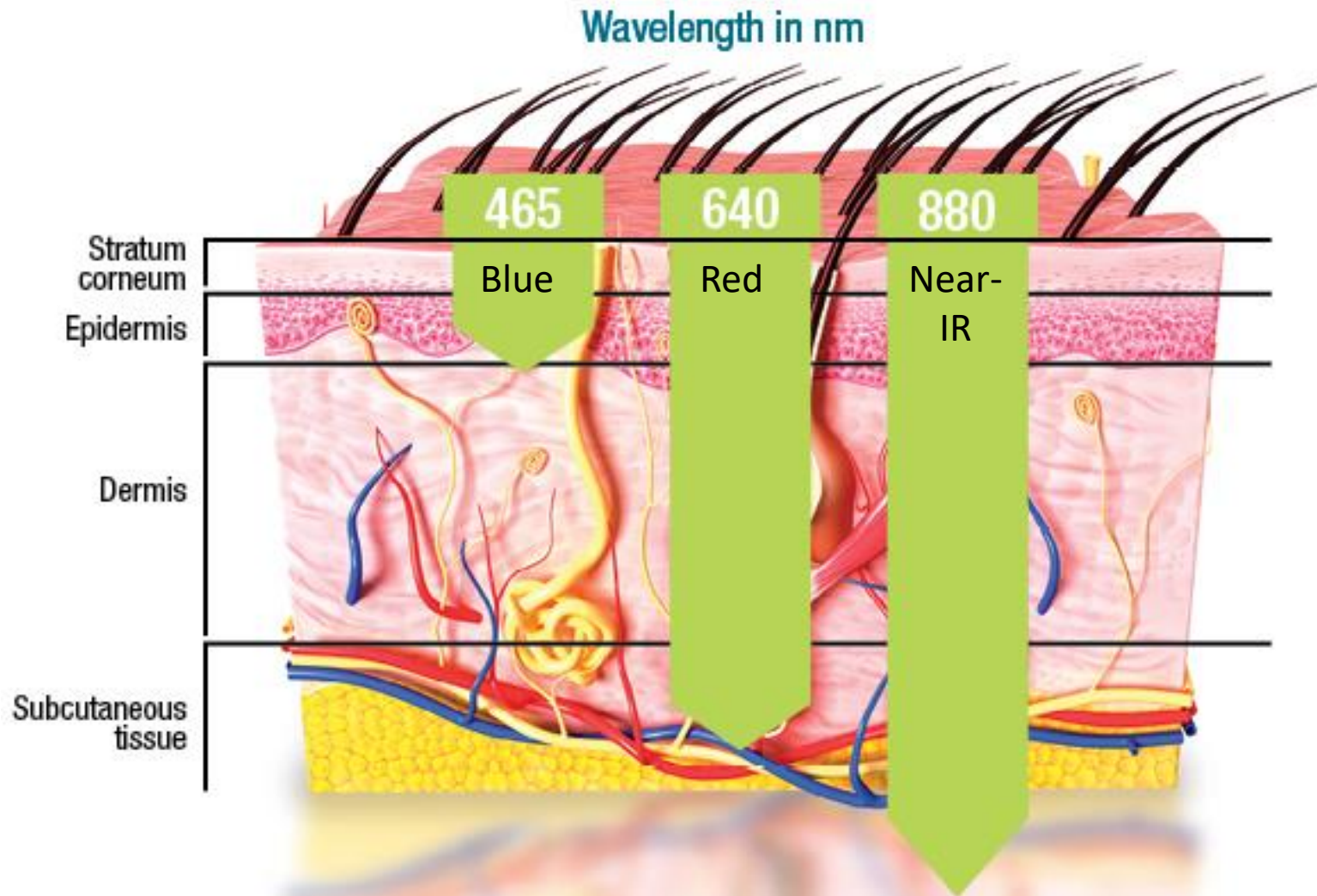
**Think of it as a battery charger for *compromised cells* . . .**

- Light source emits photons
- Photons are absorbed in the mitochondria and cell membranes
- Causing an elevation of ATP synthesis
- Increased ATP causes a cascade of metabolic events resulting in biochemical & cellular changes...



## Light-Activated Biostimulation





- **Fibroblast Cells**: (red, a little IR). Produces collagen and elastin fibers in connective tissue.
- **Keratinocytes**: (both red and IR equally). Provides structural strength to the skin, hair and nails. Responsible for skin clarity, tone and texture.
- **Mast Cells**: (red, near IR). Essential for inflammatory reactions.
- **Neutrophil Cells**: (leukocytes): (little red, mostly IR). Are the first line of defense in the inflammatory process. Adequate numbers are important to protect the body from infection.
- **Macrophage Cells**: (leukocytes): (red and IR). Play a vital role in activating specific immune responses.
- **P. acnes bacteria**: (blue) causes bacteria to destroy itself.

## Acne

Blue Light Dominant  
(465 nm)

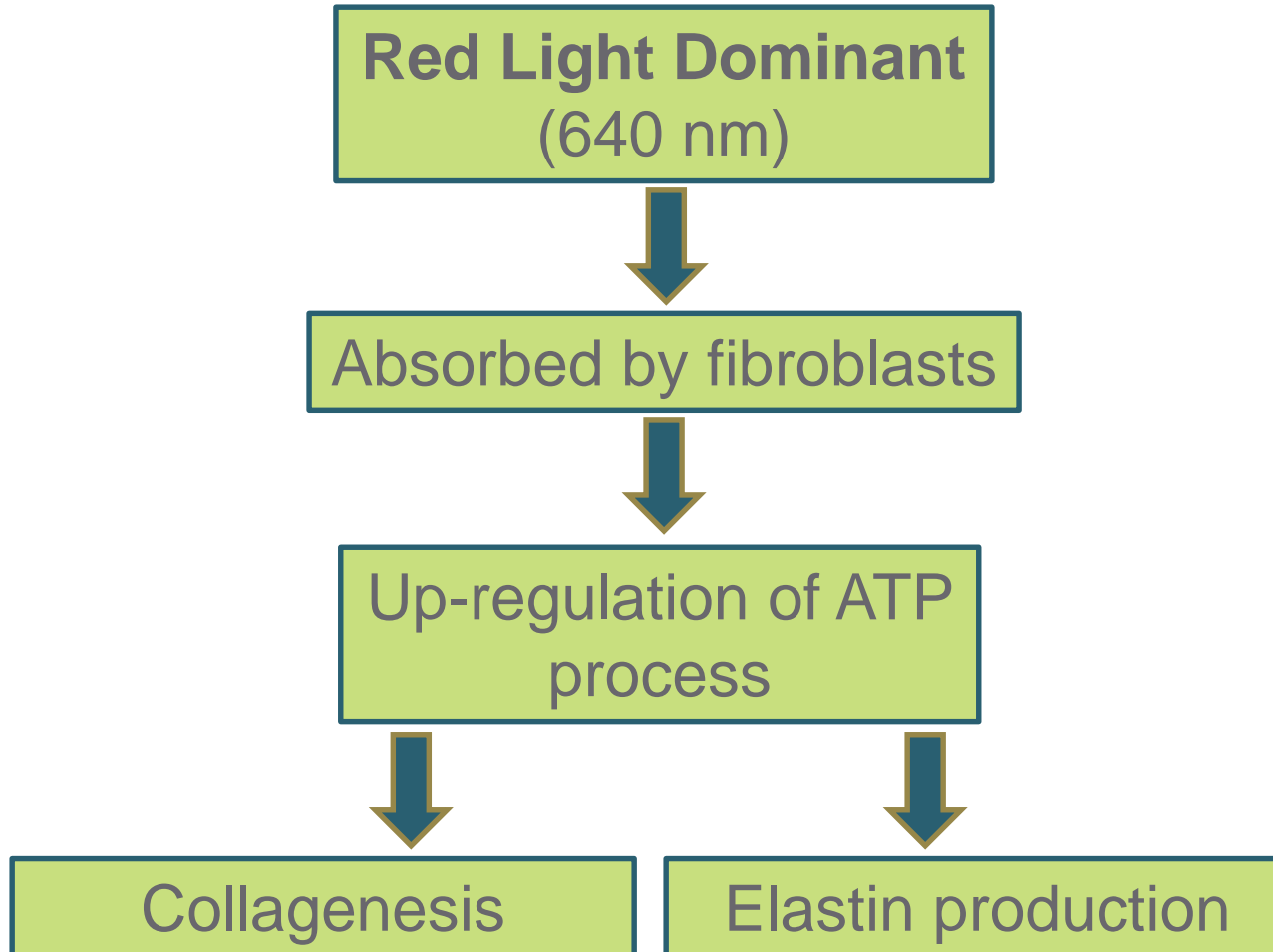


Singlet oxygen is produced



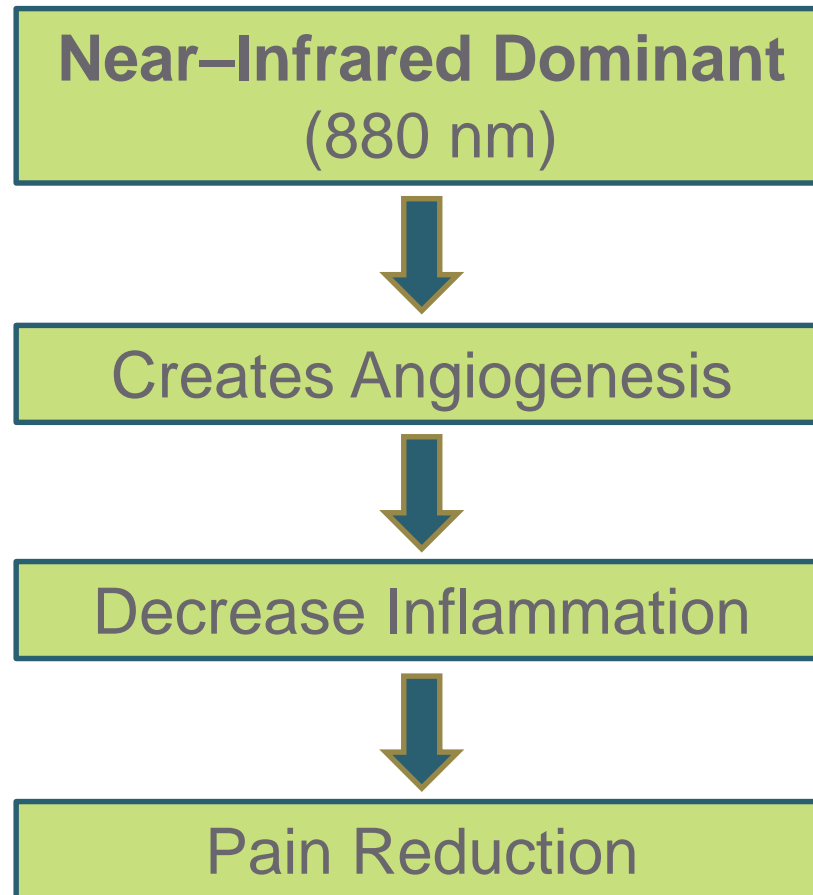
*P. acnes* self-destruction  
A phototoxic reaction  
caused by singlet oxygen  
(a bacteriacide)

## Wrinkles





## Pain



## Wound Healing

Red + IR wavelengths  
(640 + 880nm)



Absorbed by epithelial cells



Up-regulation of ATP process – cell migration - angiogenesis



Wound closure

## Perfect Combination of Sophistication & Simplicity

Large  
Flexible  
Panel

Control Pad



Power  
Cord





**celluma**<sup>®</sup>  
PRO



**celluma**<sup>®</sup>  
ELITE



**celluma**<sup>®</sup>  
LITE



**celluma**<sup>®</sup>  
HOME



*Before Celluma*



*After Celluma*

**2 times per week  
8 weeks later  
No other modalities  
used**




*Before Celluma*



*After Celluma*

**2 times per week  
8 weeks later  
No other modalities  
used**

*Before Celluma*



may 19

*After Celluma*



june 25

**2 times per week  
5 weeks later  
No other  
modalities used**





**2 times per week for 8 weeks later**  
**No other modalities used** (images courtesy Laura Kitzman)



"Loving my Celluma and have been experimenting with different protocols. Protocol for this young acne client was **30 minute blue LED 1 x weekly** with simple cleanse and extractions for 6 tx. **Then 1 x month for 2 tx** (NO enzyme or chemical peels) plus home care of salicylic wash, toner, 5% BPO gel, oil-free SPF a.m. and periodic clay mask. Client also cut sugar and dairy intake. We started Feb. 22nd but, due to my husband's illness, had only 1 appointment mid-May until our appointment last week (July 31<sup>st</sup> approx.) at which time the "after" photo was taken. These are excellent results given we did no full facials."



*Before Celluma*



*After Celluma*

**2 times per week  
2 weeks later  
No other modalities  
used**



*Before Celluma*

*After Celluma*

**2 times per week  
2 weeks later, no other modalities used**

## The Power of **celluma** LED Therapy!

Client is in her late 20's & struggling with adult acne.

Here's How We're Fighting Back!

- ~ **30 minute Celluma Treatment, 2x / week** using blue LED (It's so relaxing under the light, she can't wait to get in for her "nap time" now!)
- ~ **Gentle exfoliating facial 1x / month** using an enzyme or a combo of lactic & salicylic acids.
- ~ I recommended a **gentle cleanser** that she was able to pick up at the drug store.
- ~ She is using **Circadia by Dr. Pugliese's Daytime Control & Nighttime Control** which work to control sebum production, reduce inflammation, and eliminate the p. acne bacteria.

**Immediately Before 1<sup>st</sup> Treatment...**



**Immediately After 9<sup>th</sup> Treatment...WOW!**





*Before Celluma*



*After Celluma*

**Protocol: 3 times per week for 4 weeks**  
**Photo taken 12 weeks after final Celluma treatment**



*Before Celluma*



*After Celluma*

**Protocol: 3 times per week for 4 weeks**  
**Photo was taken 12 weeks after final Celluma treatment**



*Before Celluma*



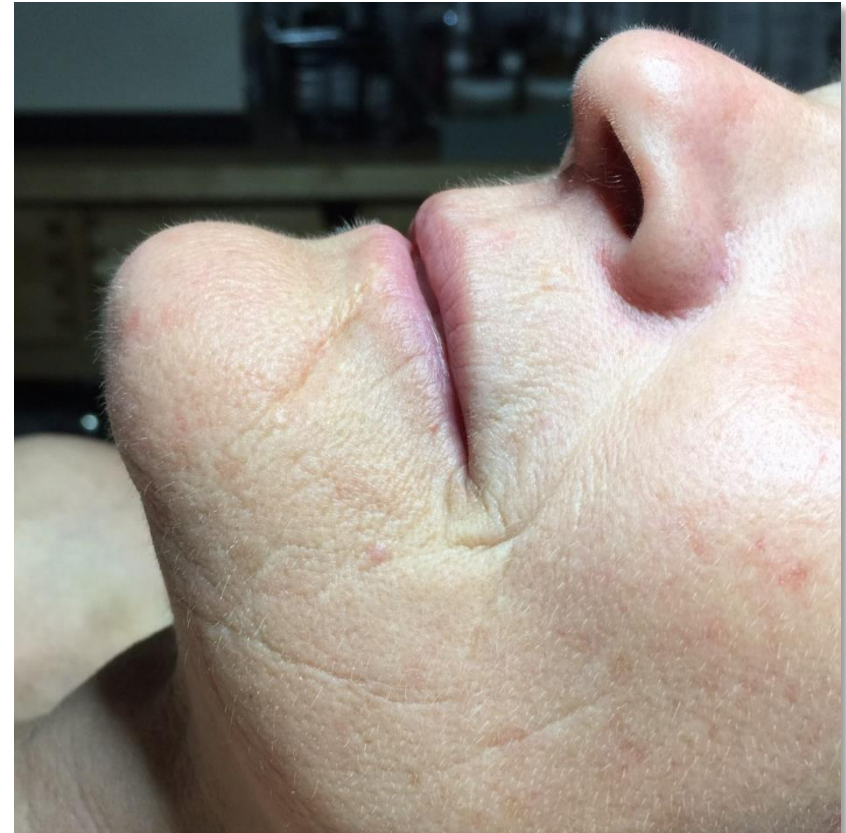
*After Celluma*

**Protocol: 3 times per week  
for 4 weeks**





*Before Celluma*



*After Celluma*

**1 x 30 minute Celluma treatment, 2 times a week for 4 weeks**  
**No other modality used** (Images courtesy Lori Hall L.E.)



*Before Celluma*



*After Celluma*

**1 x 30 minute Celluma treatment, 2 times a week for 4 weeks**

**No other modality used** (Images courtesy Lori Hall L.E.)



*Before Celluma*



*After Celluma*

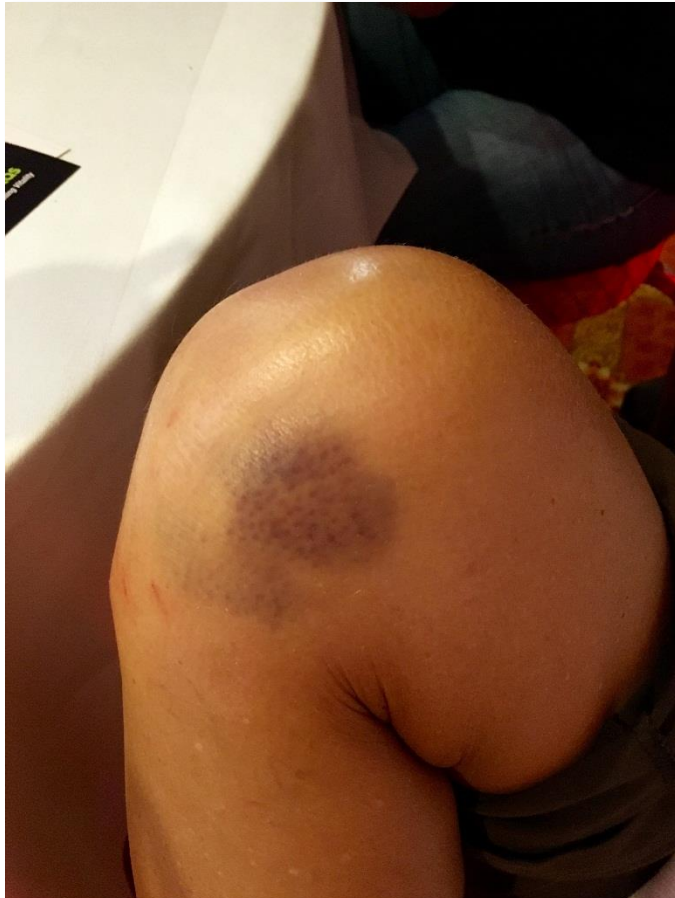
**1 x 30 minute Celluma treatment, 2 times a week for 4 weeks**  
**No other modality used** (Images courtesy Lori Hall L.E.)

*Firming Skin and Smoothing Wrinkles*



4 week treatment - 8 weeks post treatment





*Before Celluma*



*After Celluma*

**Bruise after one 30 minute Celluma treatment  
No other modality used**



*Before Celluma*



*After Celluma*

**Bruise after one 30 minute Celluma treatment  
No other modality used**



*Before Celluma*



*After Celluma*

**Arm bruise 20 hours after 1 Celluma treatment  
No other modality used**





*After microneedling & before  
Celluma*



*After 30 minutes  
Celluma*

## Collaboration with The Semper Fi Fund

*Celluma is provided to Wounded Warriors for pain relief*



