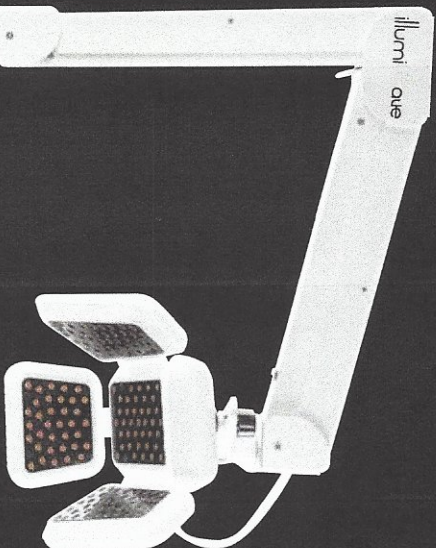


illumineWave 180



illumineWave 180 Benefits

- › 181 diodes, 650nm & 670nm wavelengths
- › User friendly LCD touch-screen
- › No consumables
- › Easy to maneuver
- › Very reliable
- › Fully adjustable & interchangeable laser head

Studies and Clinical Trials:

Male Results:

- › **100%** stabilization of hair loss in frontal & vertex areas
- › **84.6%** increased hair regrowth in frontal area
- › **82.8%** increased hair regrowth in vertex area

Female Results:

- › **87.5%** stabilization hair loss in frontal area
- › **100%** stabilization of hair loss in vertex area
- › **75%** stabilization of hair regrowth in frontal area
- › **96.4%** increased hair regrowth in vertex area

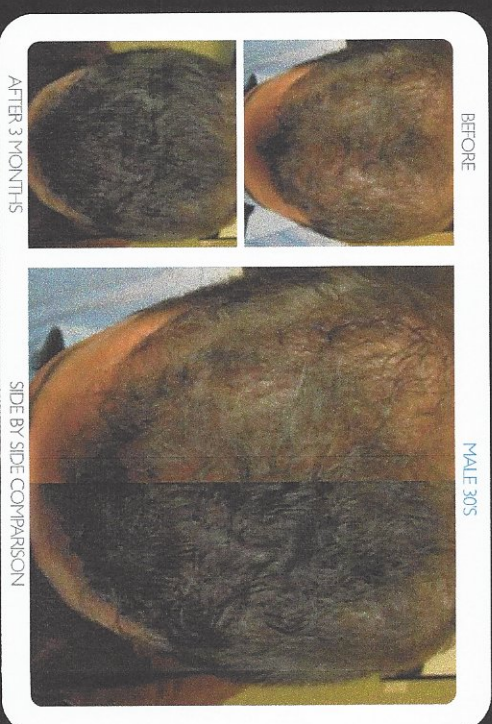
U.S. Studies:

- › **100%** stabilization of hair loss
- › **37%** + increase in hair regrowth
- › **40%** increase in hair regrowth

European Study:

- › **100%** hair retention
- › **20%** improvement in thickness and density

LASER BIO-STIMULATION FOR HAIR REJUVENATION



Rejuvenate hair thickness, fullness, texture, density, health and appearance

- › PAIN-FREE
- › NON-INVASIVE
- › NO ADVERSE SIDE-EFFECTS



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LASER BIO-STIMULATION FOR HAIR REJUVENATION

Hair Laser Bio-Stimulation for Hair Rejuvenation Works

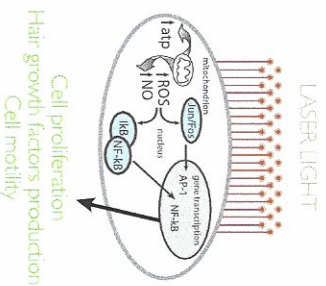
Hair follicle weakening can occur in the scalp's vascular network when the enzyme 5-alpha-reductase converts testosterone to dihydrotestosterone (DHT). DHT disrupts the binding of essential proteins and nutrients to cells in the follicle. In time, this lack of nutrients leads to a weakening of the hair in the follicular site.

Regeneration of new and healthier cells in the scalp can increase hair quality, hair thickness and hair growth. Bio-stimulation using lasers at 650nm and 670nm wavelengths are reported to increase nutrient transport and cellular ATP production of cells in the inter-membrane space of the scalp. Furthermore, increased ATP synthesis dramatically increases the mobilization of calcium ion (Ca^{2+}) stores and cell signaling cascades that lead to increased protein production, intracellular nutrient acquisition and cell proliferation. This process ultimately leads to a decrease in DHT-dependent disruption of follicular protein and nutrient loss and to the maintenance of healthy scalp hair.

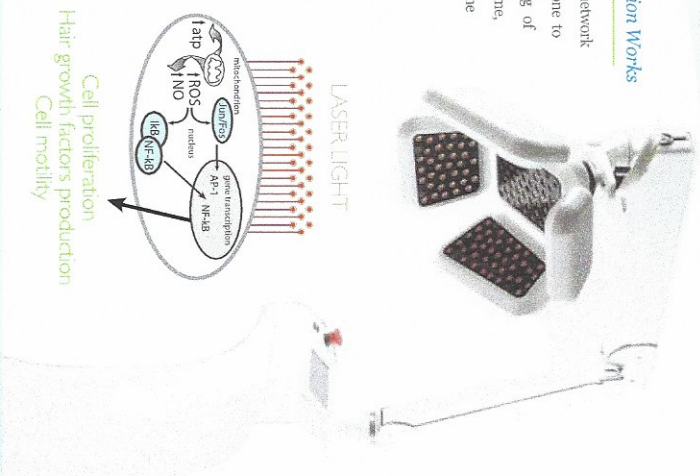
NO = Nitric oxide | ROS = Reactive oxygen species | ATP = Adenosine triphosphate | JunFos & AP-1 = Activator proteins | NF-kB & Ikb = Activating transcription factors

LASER STUDIES AND RESOURCES

1. Kanu, T. (1998) The science of low power laser therapy. Gordon and Breach Science Publishers.
2. Turner, J. and Hodge, L. (2002) Laser therapy clinical practice and scientific background. Prima Books.
3. Watz, M., Saleh, A. Z., Hayati, R. and Jubury, S. O. (2006) Use of the pulsed infrared diode laser (904 nm) in the treatment of alopecia areata. J Cosmet Laser Therapy 8, pp. 27-30.



Cell proliferation
Hair growth factors production
Cell motility



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