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Vielight News

Accelerating photobiomodulation.



ISTITUTO DI NEUROSCIENZE: AUTISM RESEARCH

Dr. Stefano Pallanti et al., Istituto di Neuroscienze conducted an independent study with our Vielight Neuro (Alpha and Gamma) device pertaining to children with autism (ASD), from ages 5 to 15. This study sheds light on the beneficial effects of targeted brain photobiomodulation of the Default Mode Network with 810nm NIR light energy pulsed at 10Hz and 40Hz. In the past, studies based on fMRI have revealed altered functional connectivity in the default mode network (DMN), a network with a role in interoceptive awareness and mind wandering and which was implicated in social-cognitive deficits of autism.

From the abstract:

In this retrospective study, data are reported and analyzed from 21 patients (13 males, 8 females) with ASD, with an average age of 9.1 (range 5–15), who received six months of transcranial photobiomodulation (tPBM) at home using two protocols (alpha and gamma), which, respectively, modulates the alpha and gamma bands.

Findings show that tPBM was associated with a reduction in ASD severity, as shown by a decrease in CARS scores during the intervention ($p < 0.001$). A relevant reduction in noncompliant behavior and in parental stress have been found. Moreover, a reduction in behavioral and cognitive rigidity was reported as well as an improvement in attentional functions and in sleep quality.

Read the full paper, titled "Transcranial Photobiomodulation for the Treatment of Children with Autism Spectrum Disorder (ASD): A Retrospective Study" <https://www.mdpi.com/2227-9067/9/5/755/htm>

Newsletter Highlights

Istituto di Neuroscienze:
Autism Research

Vielight Testimonial:
Dr. Martino Faggioni, DDS

X-Plus 3 Tips

A message from our
research team: Dr.
Genane Loheswaran


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Dr. Martino Faggioni, DDS

VIELIGHT TESTIMONIAL

Dr. Martino Faggioni, DDS, is a retired dental surgeon who is a strong advocate for photobiomodulation.

"In February of 2021, I suffered an uncontrolled loss of weight and after many clinical and diagnostic tests there was no known cause of this weight loss. I feared for the worse and became concerned and depressed. While searching the Internet for help I found some of Dr Margaret Naeser's Youtube videos and became very interested in the Vielight technology. When I learned of her success with TBI, PTSD and depression I immediately ordered a Vielight Duo. Within a few weeks I saw dramatic improvement in my attitude and mental outlook. Interestingly, the weight loss improved without further treatment. I am a believer in Photobiomodulation."

X-PLUS 3 TIPS

The X-Plus 3 Head module is designed to be adaptable to different parts of the brain. It can also be **worn in reverse** and positioned over the forehead (prefrontal cortex), with or without the Neuro, for greater coverage of the PFC, making it an overall versatile tool.

Additionally, the X-Plus 3's 633nm intranasal modules can be used together with the Neuro's.

Purchase the X-Plus 3 : [Shop Link](#)

Use the "**XPLUS10**" 10% discount code.



A message from our research team

"The research team at Vielight is working to understand how to personalize light delivery parameters to optimize the effects of brain photobiomodulation (PBM). Every brain is unique and varying parameters such as pulse frequency, power and target locations based on individual brain characteristics may produce superior results. Vielight researchers are using the Neuro Pro in combination with EEG in various trials to better understand how to modulate brain activity based on an individual's specific needs. Vielight studies using this personalized intervention model include the meditation studies being conducted in Toronto and Arizona and the upcoming Vielight Depression clinical trial.

Dr. Genane Loheswaran, PhD Pharmacology