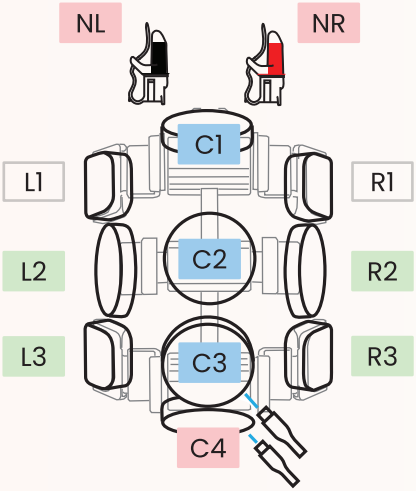
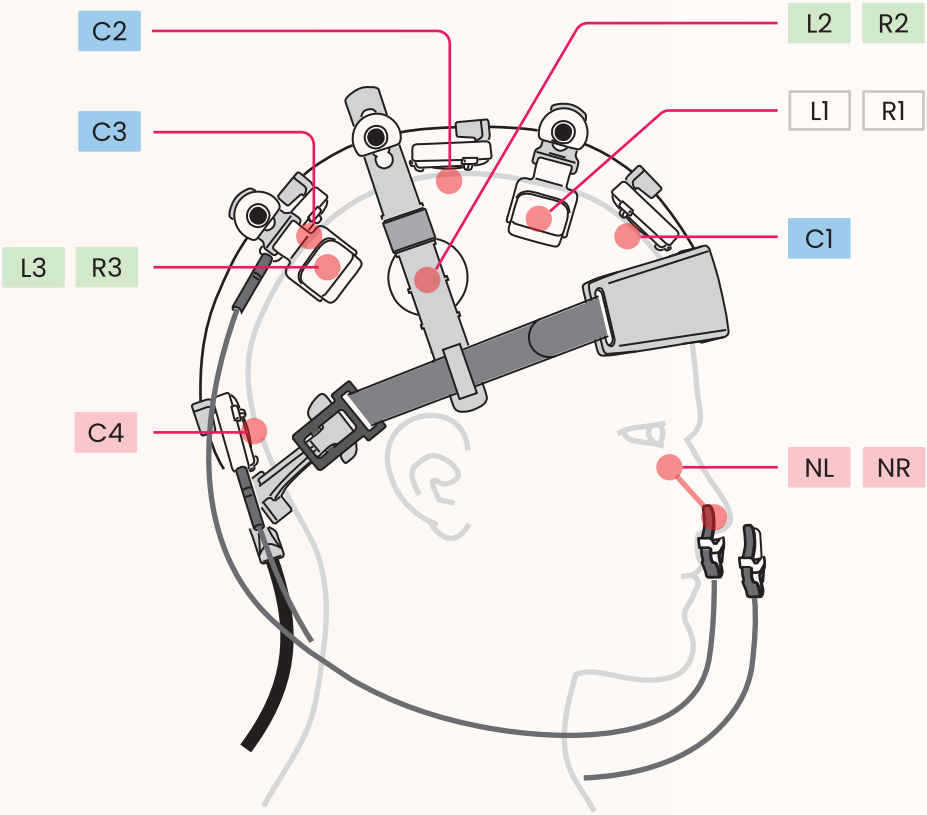
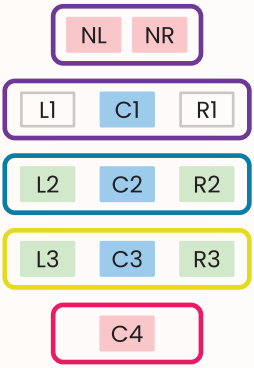
VIELIGHT

Gracefire Guide to Neuromodulation:
Vielight NeuroPro 2 Edition




NL
NR
C1
L1
R1
L2
C2
R2
L3
C3
R3
C4


C2
L2
R2
C3
L1
R1
L3
R3
C1
C4
NL
NR



Frontal — Gamma (35-55 hz), HiGamma (55-85 hz)
Complex thinking, high level info processing, integration, binding, networking

Midline — LoBeta (12-15 hz), MidBeta (15-25 hz), HiBeta (25-35 hz) Alert, focus, engaged with surroundings, externally oriented tasking, inhibition, differentiation

Central

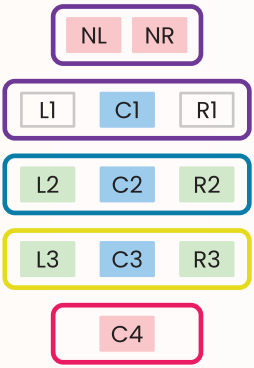
Temporal — Alpha (8-12 hz)
Aware, observing external environment, relaxed, present, meditative, state flexibility

Parietal — Theta (4-7 hz), Thalpha (6-9 hz)
Inattentive, internally focused, day-dreaming, creative, thalamocortical recruitment of resources

Limbic

Occipital — Delta (1-4 hz)
Deeply relaxed, internally oriented tasking, healing, repair, consolidation, sleep, unconsciousness

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Frontal — *executive function, decision making, inhibition, working memory*

Midline — *cognitive flexibility, processing speed, complex attention*

Central — *planning and control of balance and voluntary movement*

Temporal — *auditory processing, memory, speech, language, emotion*

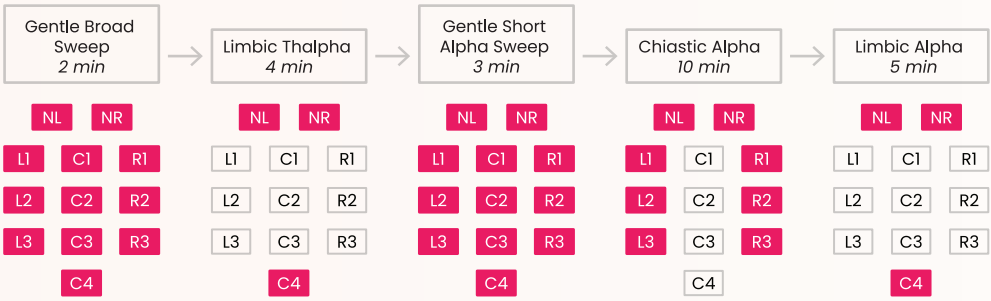
Parietal — *sensory integration, vigilance, calculation, self awareness*

Limbic — *autonomic regulation, motivation, social emotional processing*

Occipital — *visual processing, orientation in space, memory encoding*

Relax and Recover

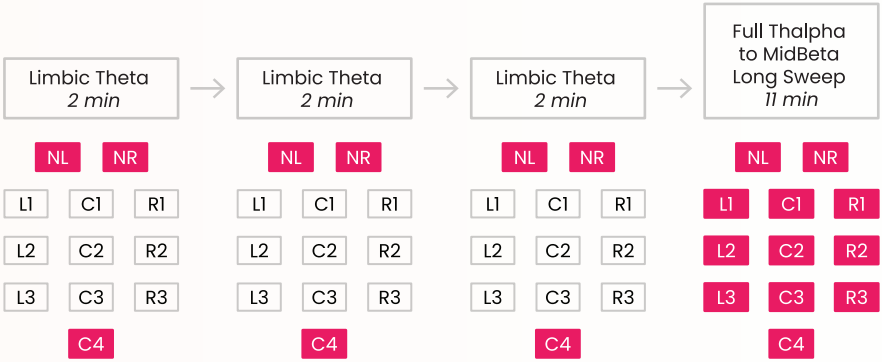
— promotes stress management, mental relaxation, and reduction of muscle tension





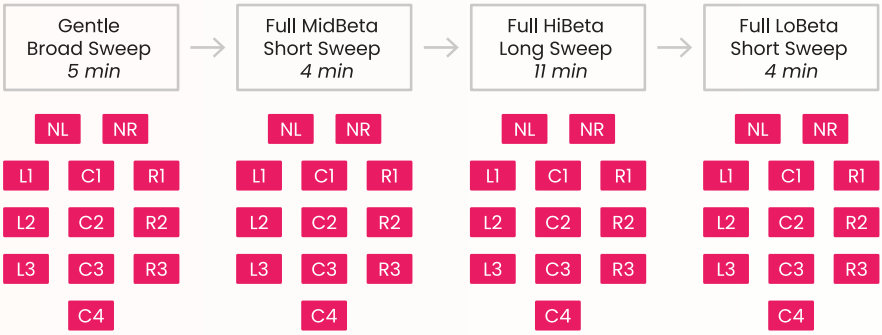
Emotional Balance

— supports calibration between deep brain and cortical orientation circuits to improve sensory integration and a feeling of being centered or grounded



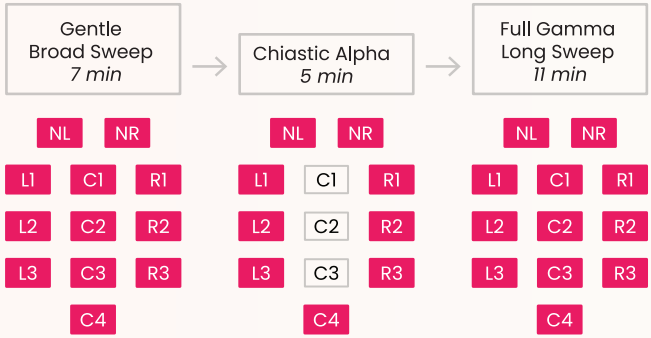
Focus

— promotes cognitive adaptability, mental acuity and productivity



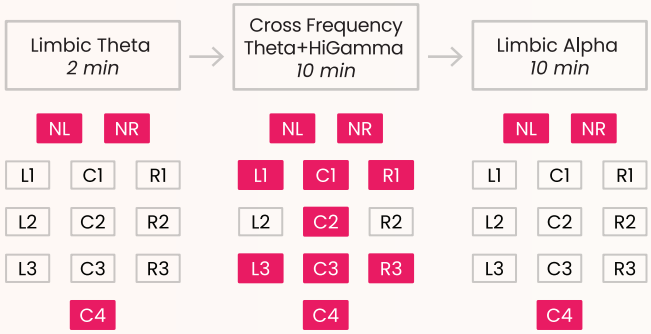
Flex

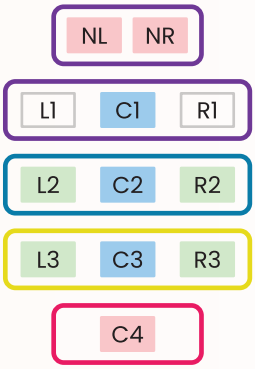
— promotes creativity, state flexibility and peak performance



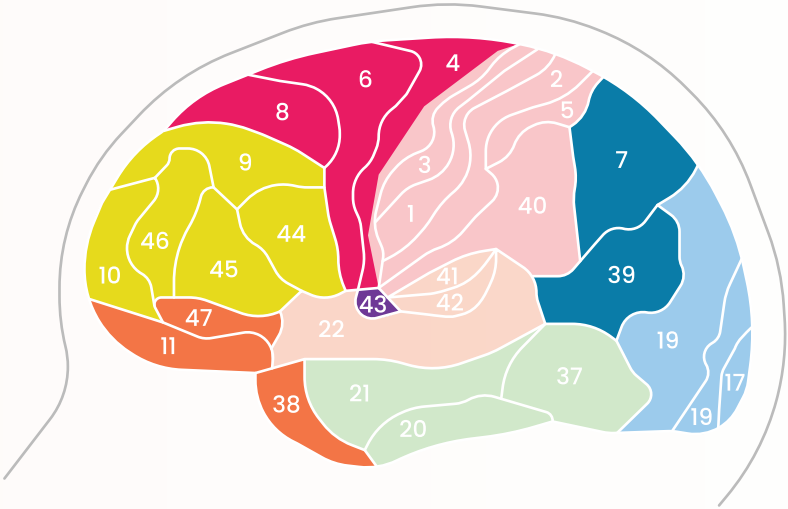
Enhance

— supports synchrony in the networks that underpin both motor movement and balance as well as attention and processing speed





Frontal	*executive function, decision making, inhibition, working memory*
Midline	*cognitive flexibility, processing speed, complex attention*
Central	*planning and control of balance and voluntary movement*
Temporal	*auditory processing, memory, speech, language, emotion*
Parietal	*sensory integration, vigilance, calculation, self awareness*
Limbic	*autonomic regulation, motivation, social emotional processing*
Occipital	*visual processing, orientation in space, memory encoding*



executive functions

motor functions

somatosensory

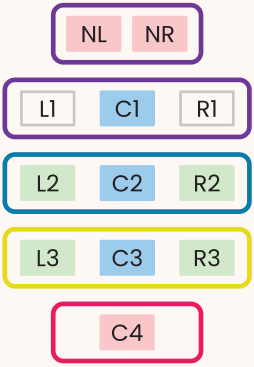
attention

visual functions

memory

emotional regulation

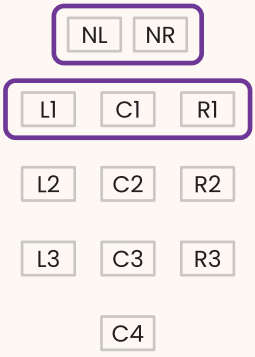
sound



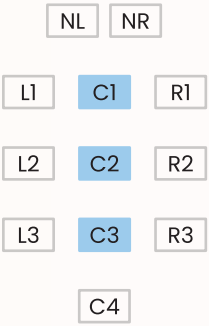
Frontal	*broodman areas 8, 9, 10, 11, 45, 46, 47*
Midline	*broodman areas 5, 6, 7, 8*
Central	*broodman areas 1, 2, 5, 20, 21, 41, 42*
Temporal	*broodman areas 20, 21, 37, 42*
Parietal	*broodman areas 5, 7, 37, 39, 40*
Limbic	*broodman areas 10, 11, 17, 18, 19, 38, 47*
Occipital	*broodman areas 17, 18, 19*

Frontal broodman areas 8, 9, 10, 11, 45, 46, 47

executive function, decision making, inhibition, working memory



8 — https://www.fmriconsulting.com/brodmann/BA8.html
9 — https://www.fmriconsulting.com/brodmann/BA9.html
10 — https://www.fmriconsulting.com/brodmann/BA10.html
11 — https://www.fmriconsulting.com/brodmann/BA11.html
45 — https://www.fmriconsulting.com/brodmann/BA45.html
46 — https://www.fmriconsulting.com/brodmann/BA46.html
47 — https://www.fmriconsulting.com/brodmann/BA47.html

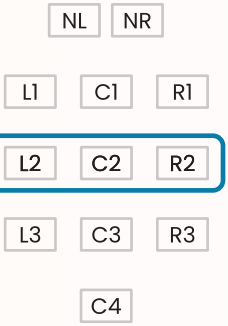


Midline

broodman areas 5, 6, 7, 8

cognitive flexibility, processing speed, complex attention

5 — https://www.fmriconsulting.com/brodmann/BA5.html
6 — https://www.fmriconsulting.com/brodmann/BA6.html
7 — https://www.fmriconsulting.com/brodmann/BA7.html
8 — https://www.fmriconsulting.com/brodmann/BA8.html

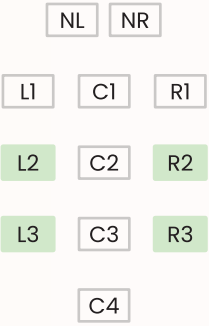


Central

broodman areas 1, 2, 5, 20, 21, 41, 42

planning and control of balance and voluntary movement

1 — https://www.fmriconsulting.com/brodmann/BA1.html
2 — https://www.fmriconsulting.com/brodmann/BA2.html
5 — https://www.fmriconsulting.com/brodmann/BA5.html
20 — https://www.fmriconsulting.com/brodmann/BA20.html
21 — https://www.fmriconsulting.com/brodmann/BA21.html
41 — https://www.fmriconsulting.com/brodmann/BA41.html
42 — https://www.fmriconsulting.com/brodmann/BA42.html

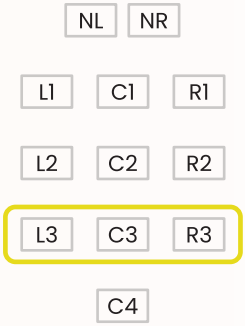


Temporal

broodman areas 20, 21, 37, 42

auditory processing, memory, speech, language, emotion

20 — https://www.fmriconsulting.com/brodmann/BA20.html
21 — https://www.fmriconsulting.com/brodmann/BA21.html
37 — https://www.fmriconsulting.com/brodmann/BA37.html
42 — https://www.fmriconsulting.com/brodmann/BA42.html

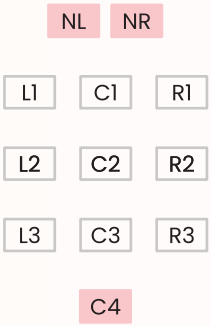


Parietal

broodman areas 5, 7, 37, 39, 40

sensory integration, vigilance, calculation, self awareness

5 — https://www.fmriconsulting.com/brodmann/BA5.html
7 — https://www.fmriconsulting.com/brodmann/BA7.html
37 — https://www.fmriconsulting.com/brodmann/BA37.html
39 — https://www.fmriconsulting.com/brodmann/BA39.html
40 — https://www.fmriconsulting.com/brodmann/BA40.html



Limbic

broodman areas 10, 11, 17, 18, 19, 38, 47

autonomic regulation, motivation, social emotional processing

10 — https://www.fmriconsulting.com/brodmann/BA10.html
11 — https://www.fmriconsulting.com/brodmann/BA11.html
17 — https://www.fmriconsulting.com/brodmann/BA17.html
18 — https://www.fmriconsulting.com/brodmann/BA18.html
19 — https://www.fmriconsulting.com/brodmann/BA19.html
38 — https://www.fmriconsulting.com/brodmann/BA38.html
47 — https://www.fmriconsulting.com/brodmann/BA47.html



Occipital

broodman areas 17, 18, 19

visual processing, orientation in space, memory encoding

17 — https://www.fmriconsulting.com/brodmann/BA17.html
18 — https://www.fmriconsulting.com/brodmann/BA18.html
19 — https://www.fmriconsulting.com/brodmann/BA19.html