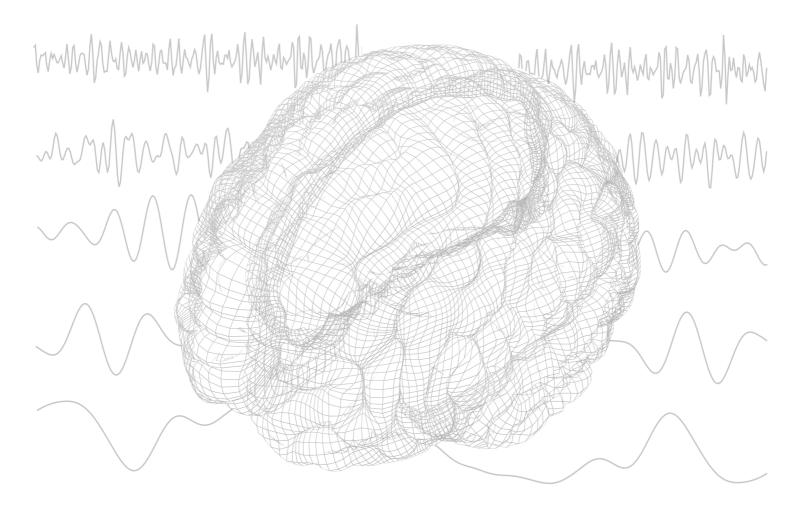
-II Results





Advanced EEG Analysis Platform: cloud-based, Al-driven, norm-matched, sex/age-specific ClientNo. JohnDoe Sex. Male Handedness. Right-handed

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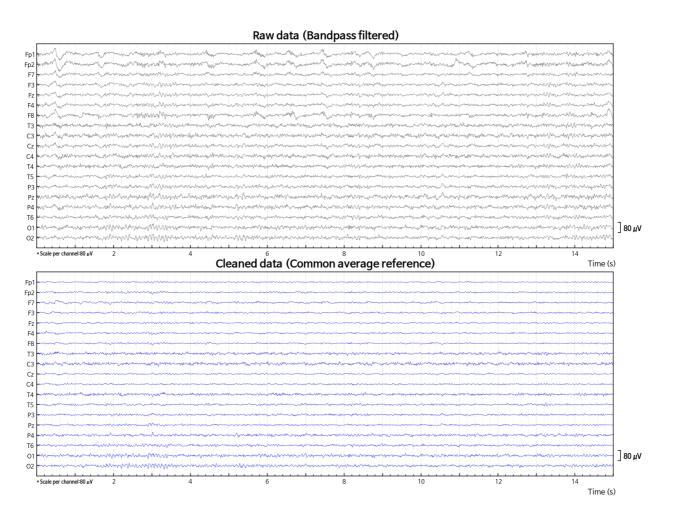
ClientNo.JohnDoe

I . Personal Data								
Norm DB Analysis No	Subject No.	Sex	Date of Birth	EEG acquisition date (age)	Date of Analysis	EC/EO	Handedness	Disease code
22452	JohnDoe	Male	1997-11-05	2022-11-22 (25.0years)	2022-11-22	Eyes Closed	Right-handed	AD0

II . EEG

1. Raw Data

EEG data is a record of the oscillations of electrical brain potentials recorded from electrodes on the human scalp (T100)(T101) (T005). The raw data in the figure below have been cleaned by the application of high-pass and low-pass filers. This markedly reduces distortions (artifacts) from common physiological sources such as face or eye muscle movements, as well as extrinsic non-physiological sources such as electrical devices, power lines, poor electrode contact.



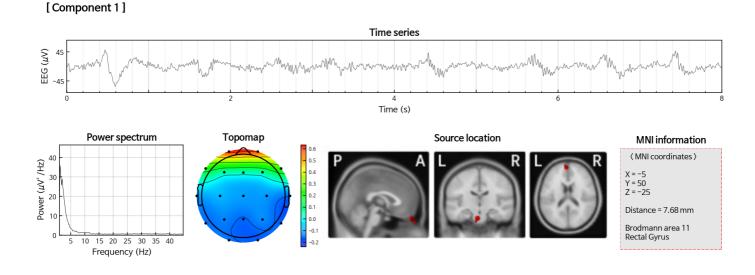
ClientNo.JohnDoe

2. ICA components

Independent component analysis (ICA) is a statistical method to separate independent sources from superimposed signals. It is the most common method that has been used in EEG data decomposition, and can be used to identify and remove the artifacts from raw EEG data. Features including time series, power spectrum density (PSD), component scalp map (Topomap), dipole source location (Source location) extracted from ICA are shown for each component.

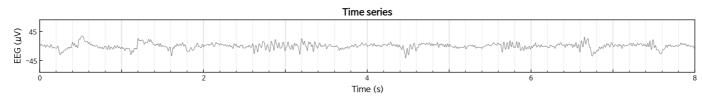
Artifact Component No. 1, 2, 4, 7, 13, 16

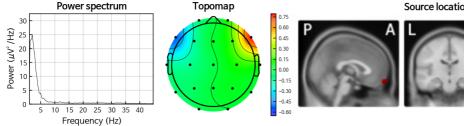
2-1 Component1



2-2 Component2

[Component 2]





Source location

MNI information

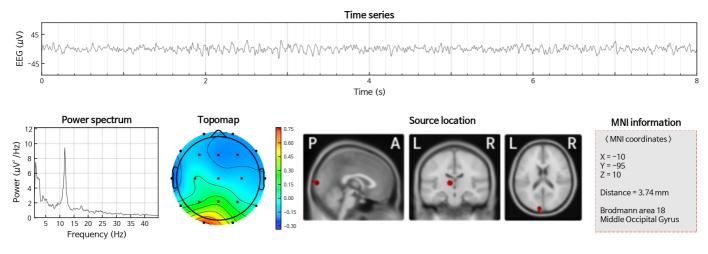


Distance = 7.64 mm

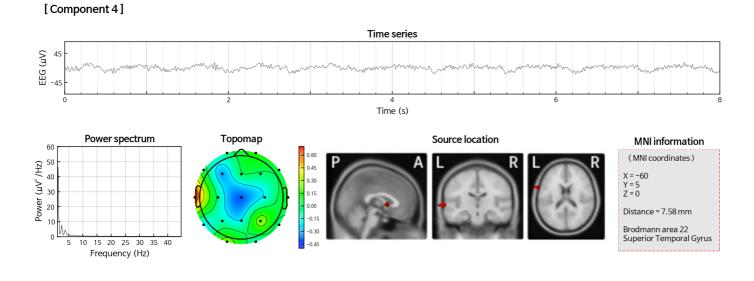
Brodmann area 11 Middle Frontal Gyrus

2-3 Component3

[Component 3]

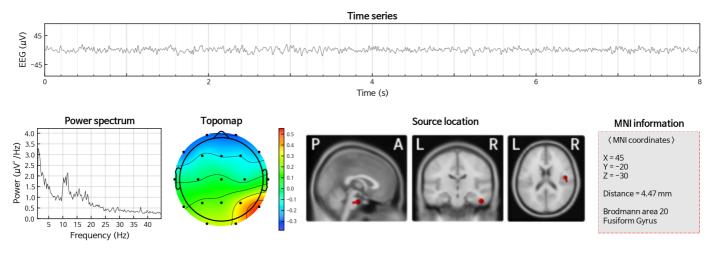


2-4 Component4

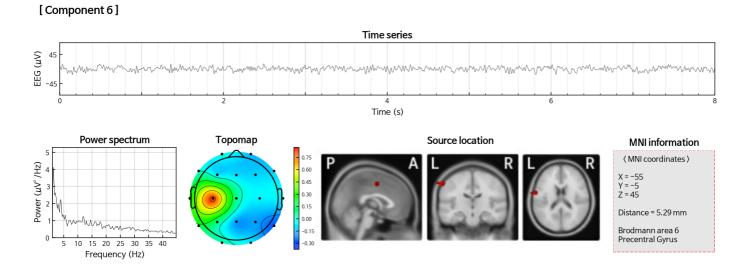


2-5 Component5

[Component 5]

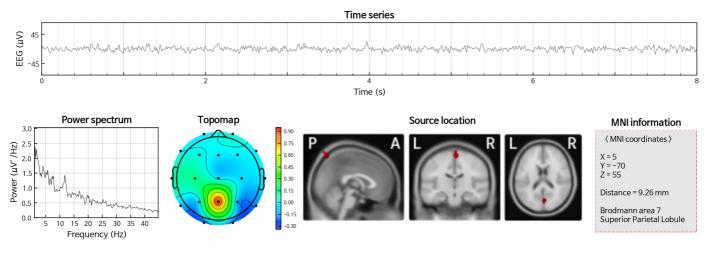


2-6 Component6

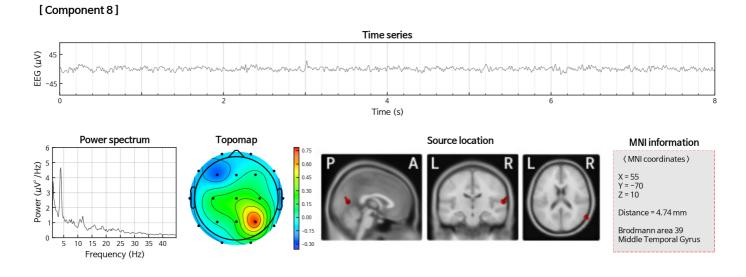


2-7 Component7



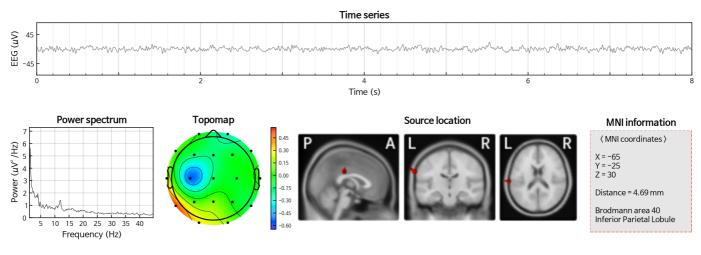


2-8 Component8

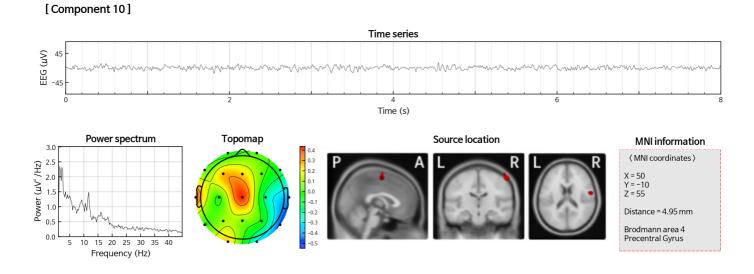


2-9 Component9



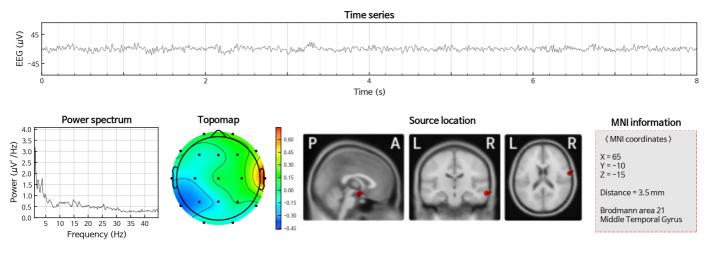


2-10 Component10

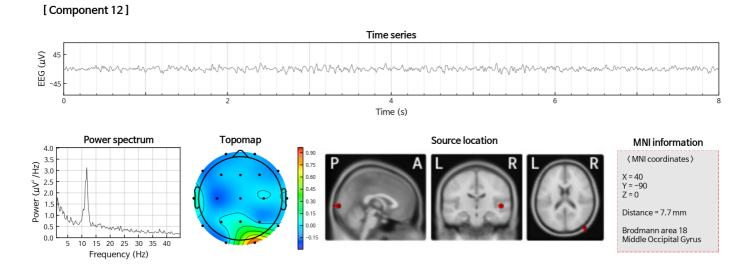


2-11 Component11

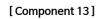


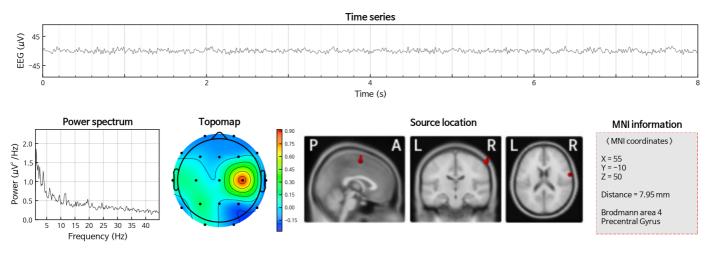


2-12 Component12

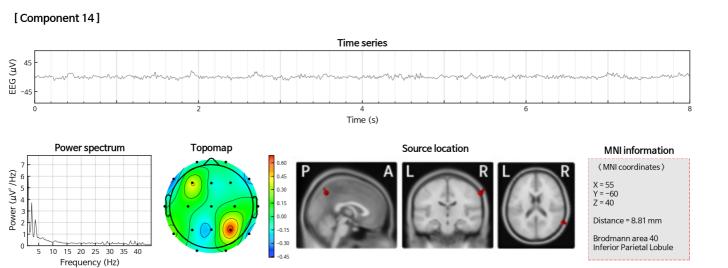


2-13 Component13

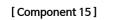


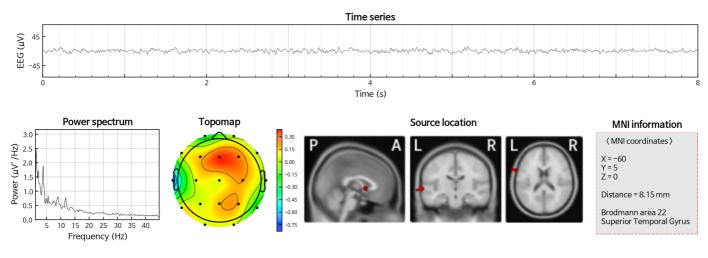


2-14 Component14

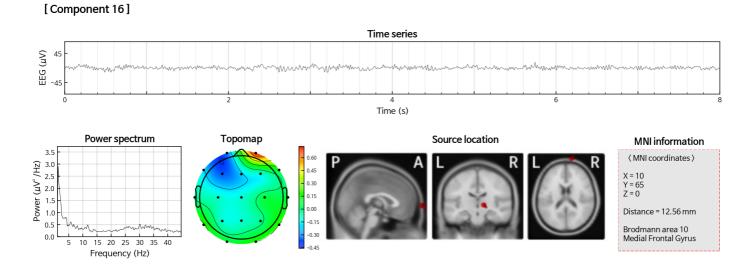


2-15 Component15



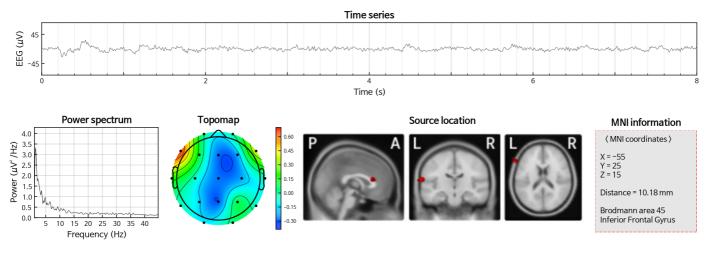


2-16 Component16

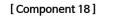


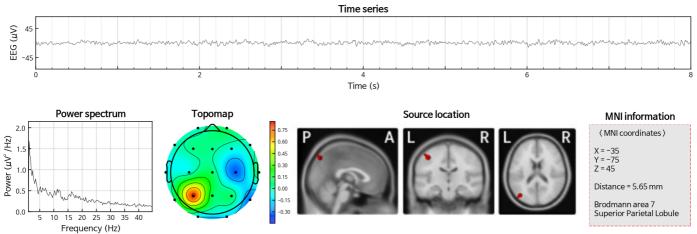
2-17 Component17





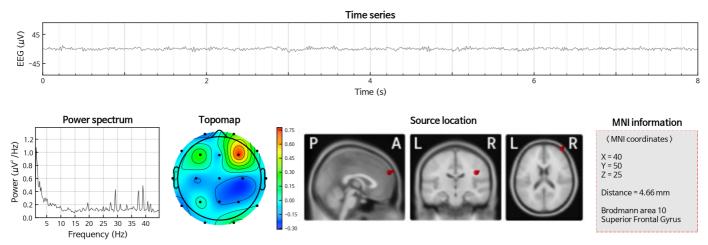
2-18 Component18





2-19 Component19



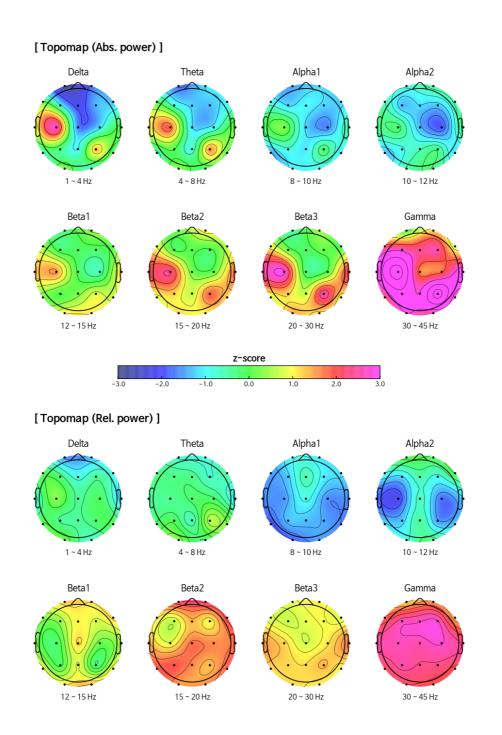


ClientNo.JohnDoe

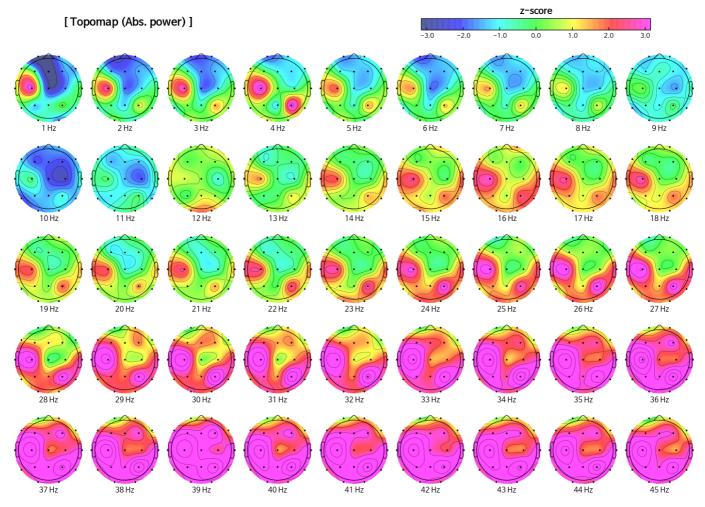
3. Band power - Topomap

In power spectral density(PSD) 2D map, topomaps of absolute and relative power in 1 Hz bins (1 - 45 Hz) as well as each frequency band are presented. Absolute power is the sum of the component powers for each frequency band. Relative power is the absolute power in a specific frequency band divided by the total power. It is advisable to compare relative power with absolute power, since absolute power reflects the individual differences due to variations in brain tissue. This feature provides absolute and relative power based on six brain regions (prefrontal, frontal, left temporal, right temporal, central, parietal, and occipital). The power spectra for each of the 19 channels are shown in the following feature, PSD spectrum (below).

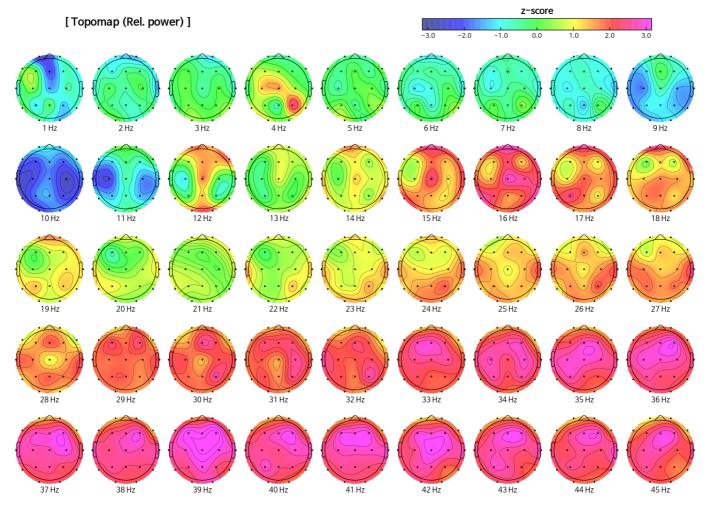
3-1 Band



3-2 Absolute



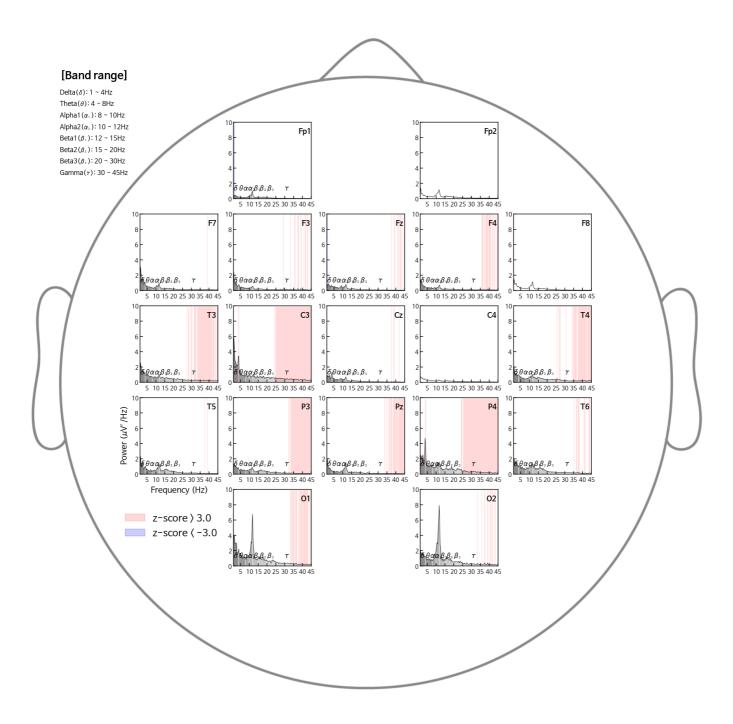
3-3 Relative



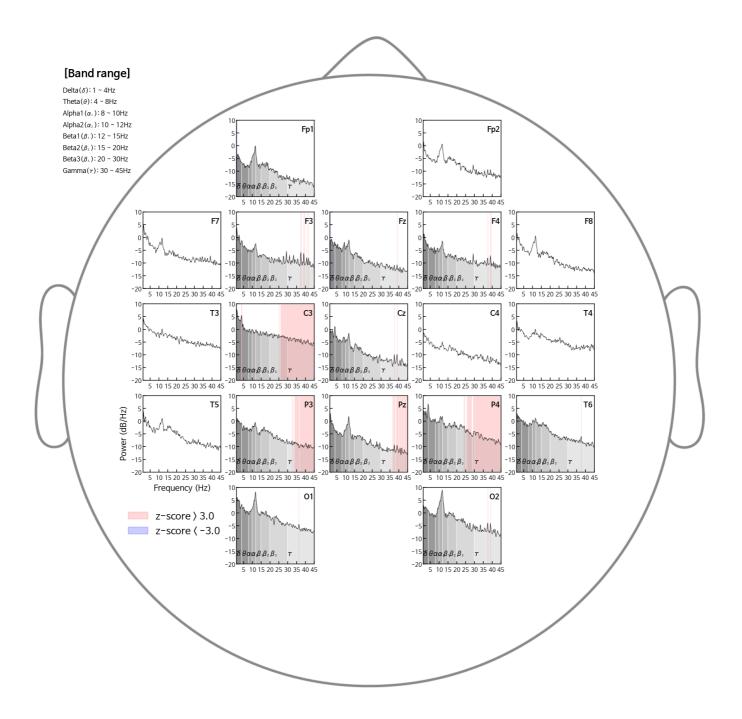
4. Power spectrum

It shows the EEG power measured from 19 channels. It presents the amplitude of power in units of μ V² / Hz or dB/Hz to obtain the frequency characteristics of the alpha band or beta band, respectively. The area shaded in black is the power spectrum of the subject and blue or red area indicates that the z-score of the power spectrum of the subject in specific frequency bands is increased or decreased compared to the age &sex matched normative EEG database.

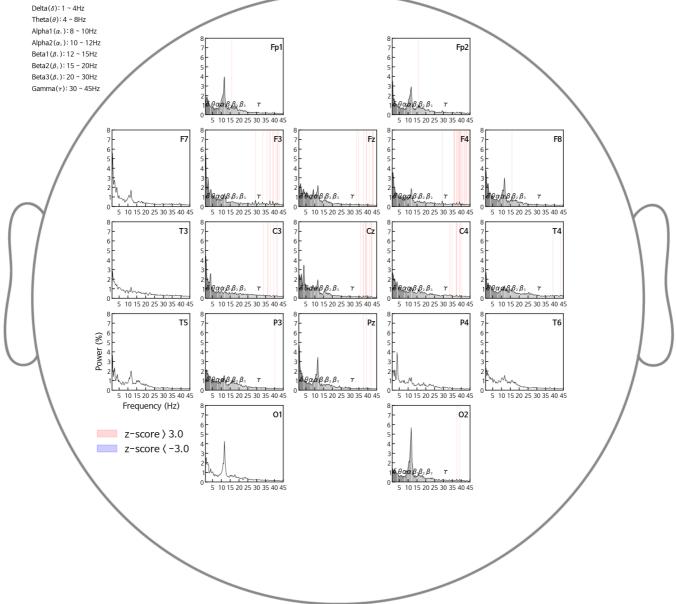
4-1 Absolute (µV²/Hz)



4-2 Absolute (dB/Hz)



[Band range]



4-3 Relative

5. Occipital alpha peak

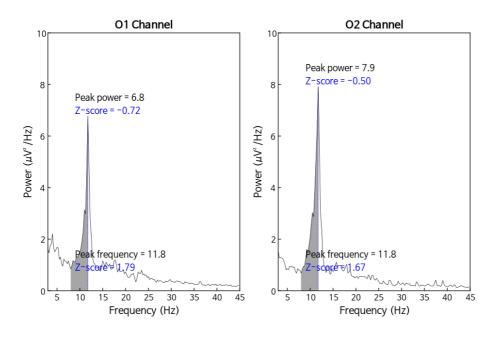
The occipital alpha frequency is the frequency at which oscillations in the alpha range (8 - 12 Hz) in the occipital regions present their maximum power. This feature shows the percentiles of peak amplitude and frequency compared with the normative EEG database in occipital regions. Alpha frequency may vary markedly to a large extent as a function of age, neurological disease status, memory performance, cognitive processing, and other factors (T179).

Clinical significance

-Resting state alpha rhythms show decreased amplitude in both Alzheimer's disease and mild cognitive disorder, compared with normal elderly subjects (T148)(T149)(T150)(T151)(T152)(T153)(T154)(T155).

-Decreased alpha frequency is known to reflect neurological diseases such as dementia, Alzheimer`s disease, brain injuries, and age-related cognitive performances (T157)(T158)(T159)

-Occipital alpha peak frequency is decreased in autism spectrum disorder (ASD) and furthermore, it is strongly correlated with non-verbal cognition within ASD group (T156).



6. Power ratio

(1)Theta/beta ratio

The theta/beta ratio (TBR) is the ratio of theta (4 - 8 Hz) to beta (13 - 21 Hz) power during the resting conditions. It tends to reflect attention-related functions (T091)(T219).

Clinical significance

-Increased TBR is associated with increased reward responsiveness, risk taking and impulsiveness and it tends to reflect attentional control functioning and behavioral inhibition process (T180).

-The majority of children with ADHD is characterized by increased theta activity and decreased beta activity coupled, and thus a higher TBR (T011).

(2)Theta/alpha ratio

The theta/alpha ratio (TAR) is the ratio of theta (4 - 8 Hz) to alpha (8 - 12 Hz) relative power during the resting conditions and reflects cognitive ability, especially learning and memory-related functions.

Clinical significance

-Increased TAR is associated with decreased cognitive ability (T207).

-The majority of older adults with amnestic mild cognitive impairment (aMCI) and probable Alzheimer`s disease (AD) is characterized by increased theta activity and decreased alpha activity coupled (T200)(T201)(T202).

(3)Delta/alpha ratio

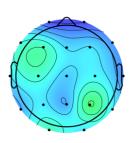
The delta/alpha ratio (DAR) is the ratio of delta (1 - 4 Hz) to alpha (8 - 12 Hz) relative power during the resting conditions and associated with cognitive deficit and functional outcome after stroke.

Clinical significance

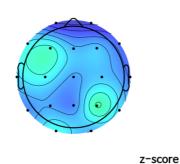
-Increased DAR is associated with cognitive impairment for post stroke in frontal lobe (T204).

-The majority of patients with stroke is characterized by increased delta activity and decreased alpha activity coupled (T204)(T205)(T206).

Unit: a.u.



Theta/beta ratio (TBR)



-2.00

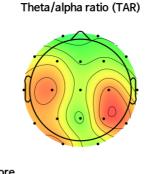
-1.00

0.00

1.00

-3.00

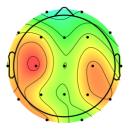
Theta/beta2 ratio (TBR2)



2.00

3.00

Delta/alpha ratio (DAR)

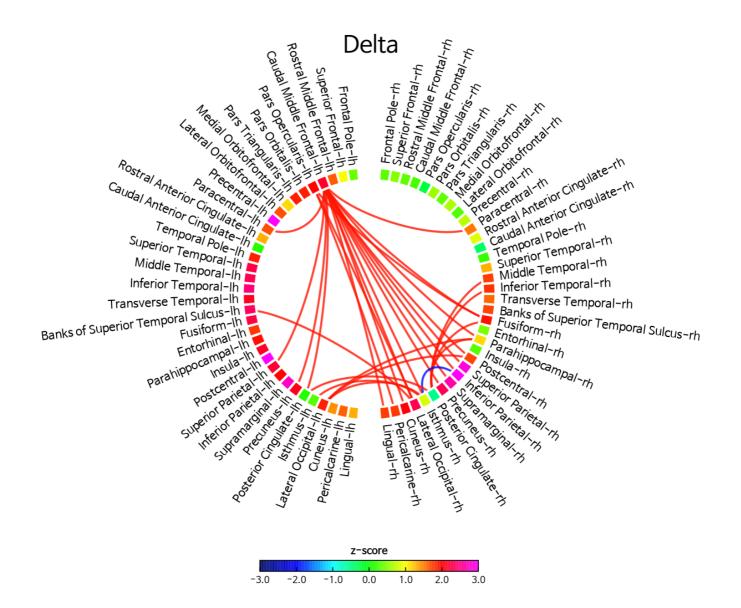


7. Source ROI power (sLORETA) &connectivity (iCoh) 7-1-ALL

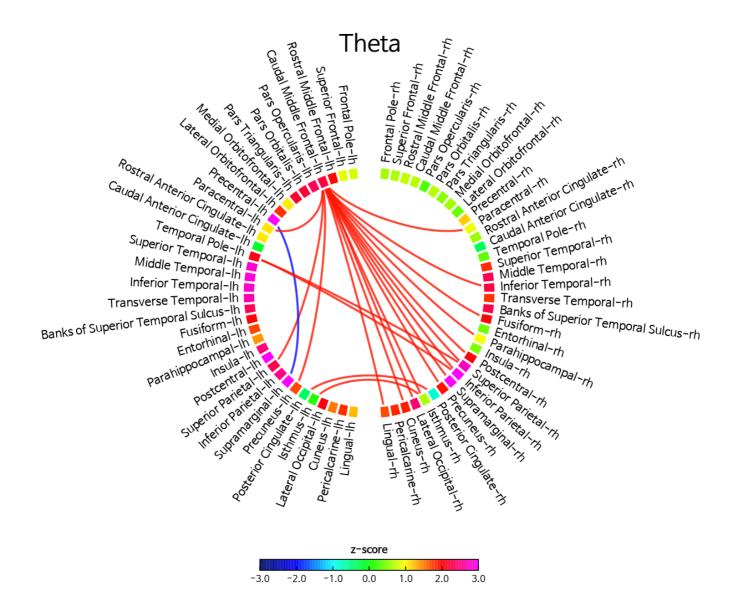
Source power derives from the EEG channel data using sLORETA (T218).

The line represents the connectivity (iCoh) of ROIs. Imaginary coherence (iCoh) means the spectral coherence that ignores volume conduction (only using imaginary part).

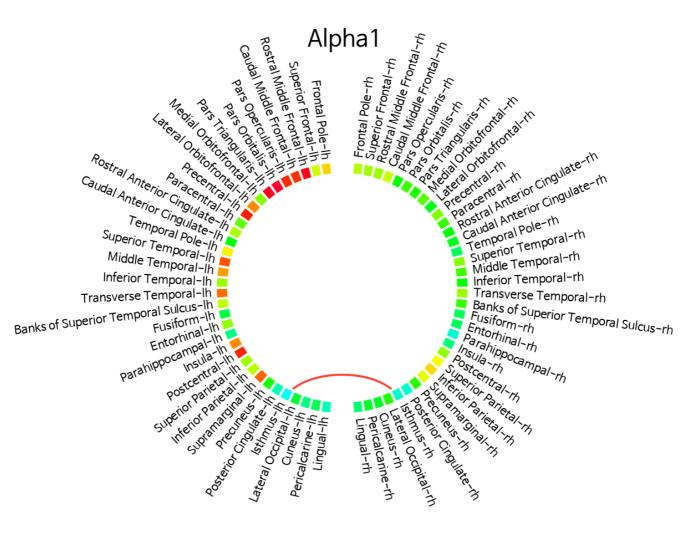
7-1-1-Delta(Absolute)



7-1-2-Theta(Absolute)

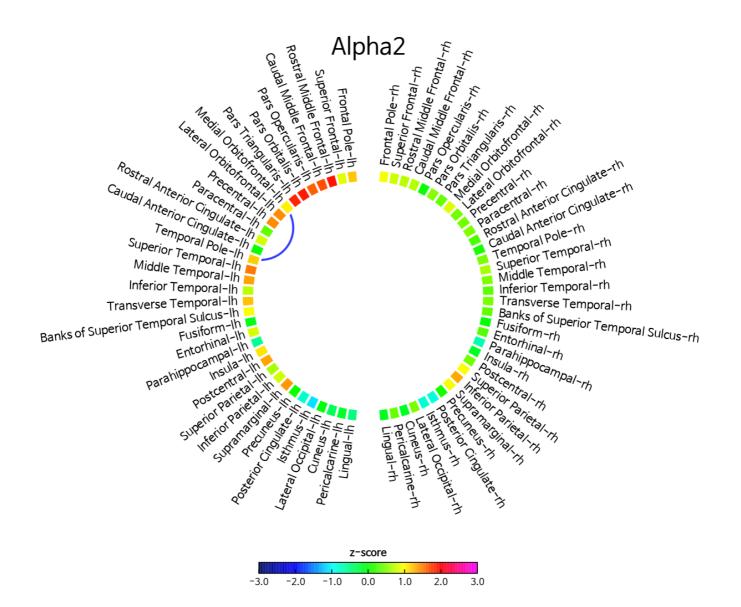


7-1-3-Alpha1(Absolute)

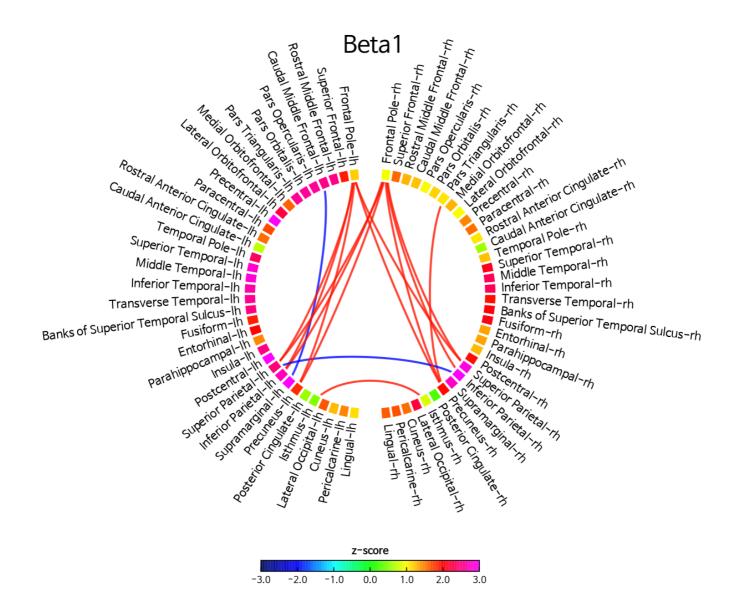


z-score						
-3.0	-2.0	-1.0	0.0	1.0	2.0	3.0

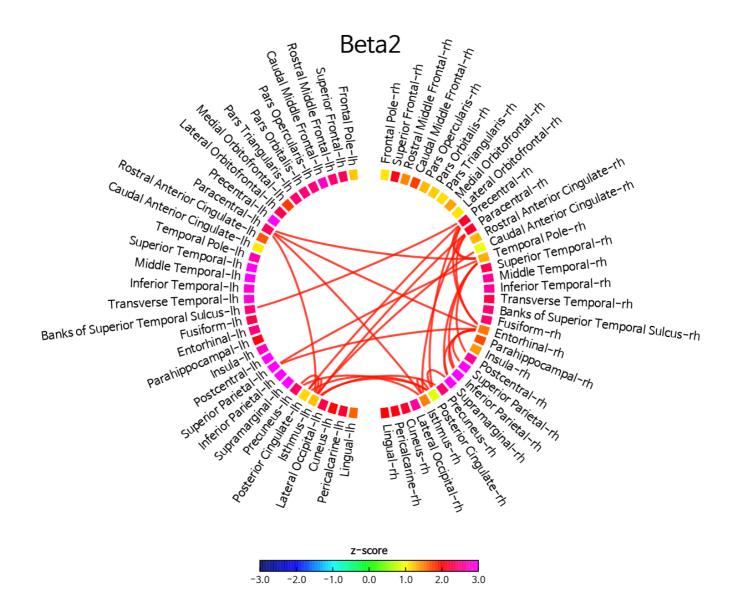
7-1-4-Alpha2(Absolute)



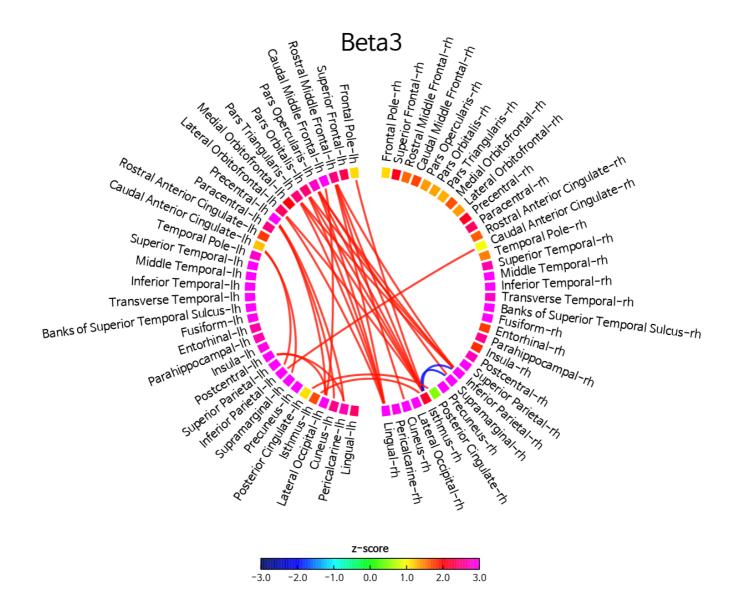
7-1-5-Beta1(Absolute)



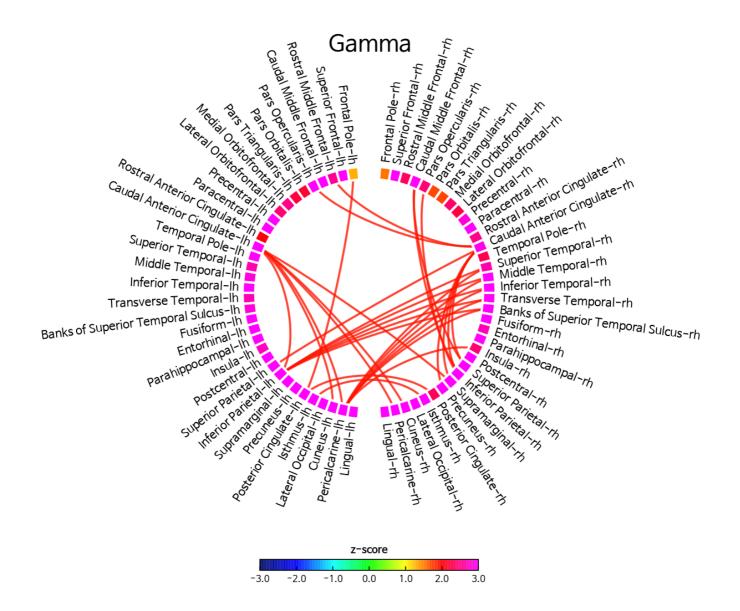
7-1-6-Beta2(Absolute)



7-1-7-Beta3(Absolute)



7-1-8-Gamma(Absolute)

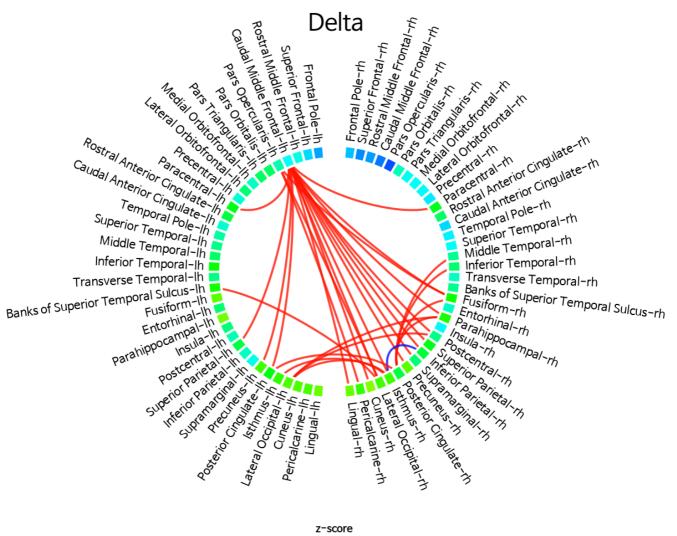


7-2-ALL

Source power derives from the EEG channel data using sLORETA (T218).

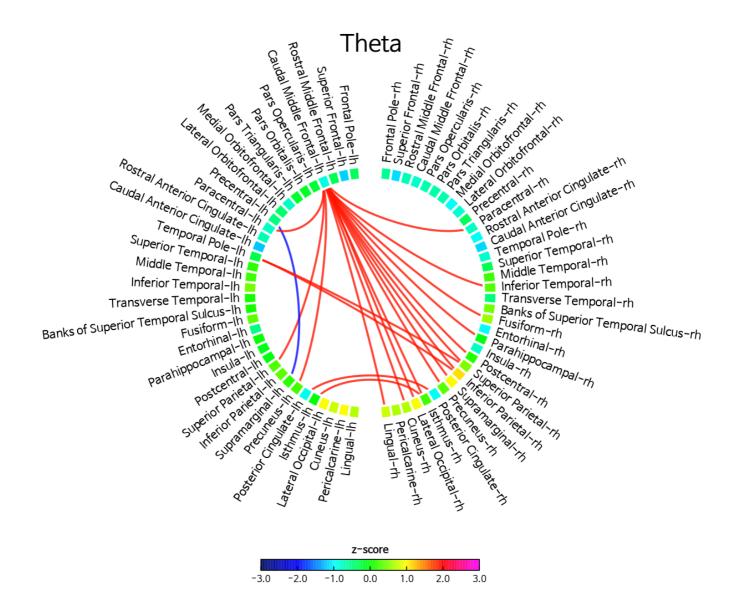
The line represents the connectivity (iCoh) of ROIs. Imaginary coherence (iCoh) means the spectral coherence that ignores volume conduction (only using imaginary part).

7-2-1-Delta(Relative)

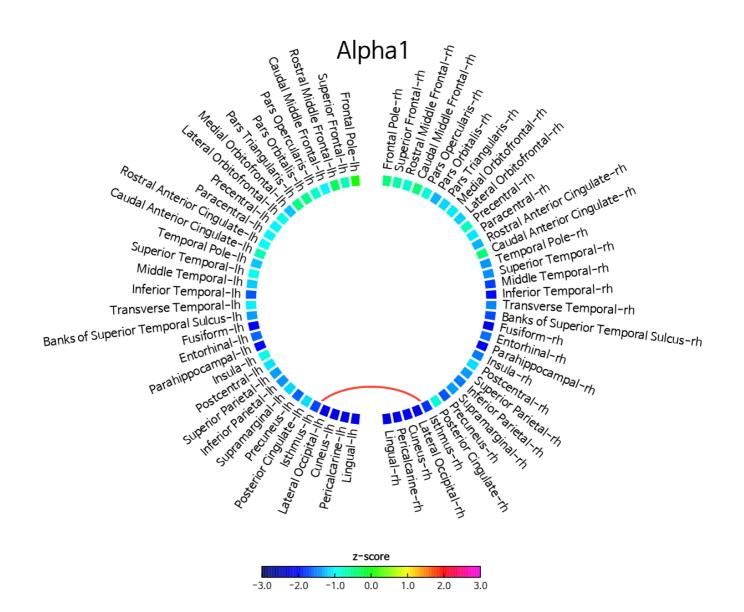


	I.					
-3.0	-2.0	-1.0	0.0	1.0	2.0	3.0

7-2-2-Theta(Relative)

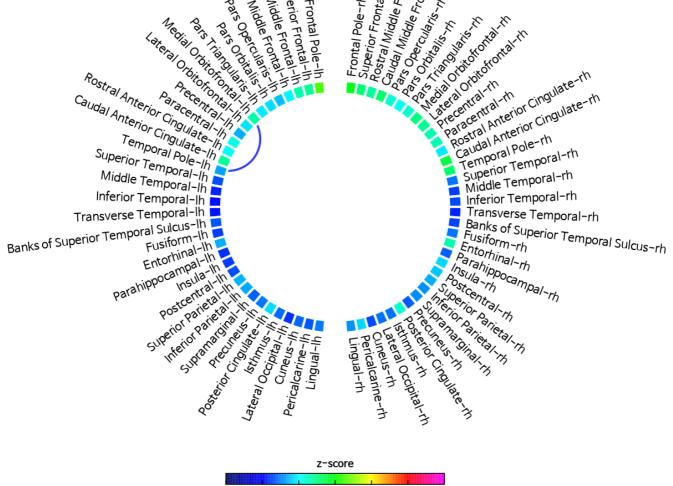


7-2-3-Alpha1(Relative)



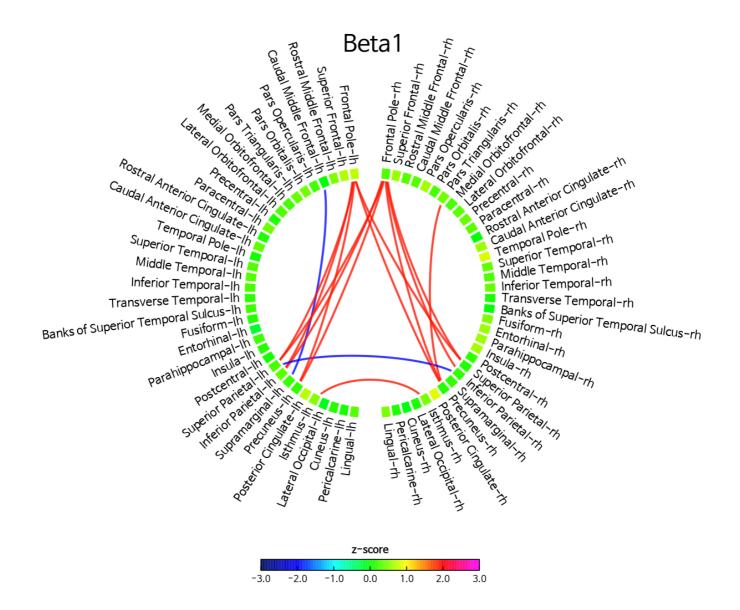
7-2-4-Alpha2(Relative)



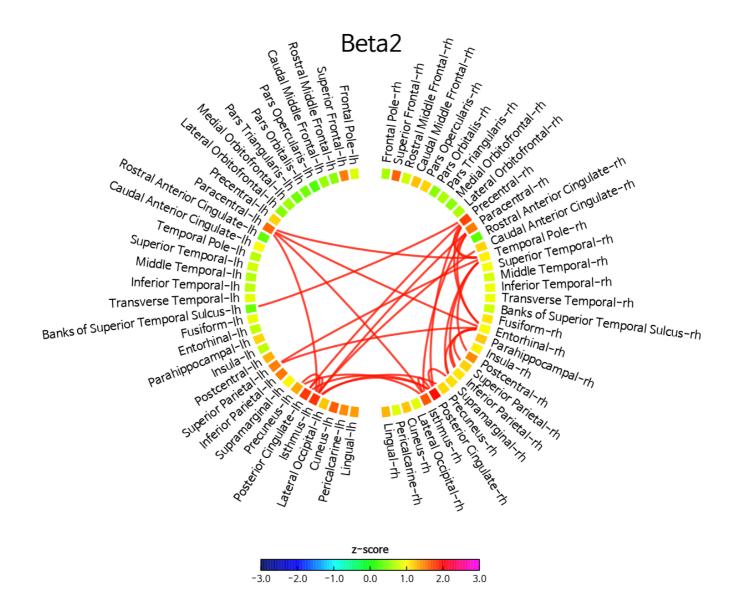


-3.0 -2.0 -1.0 0.0 1.0 2.0 3.0

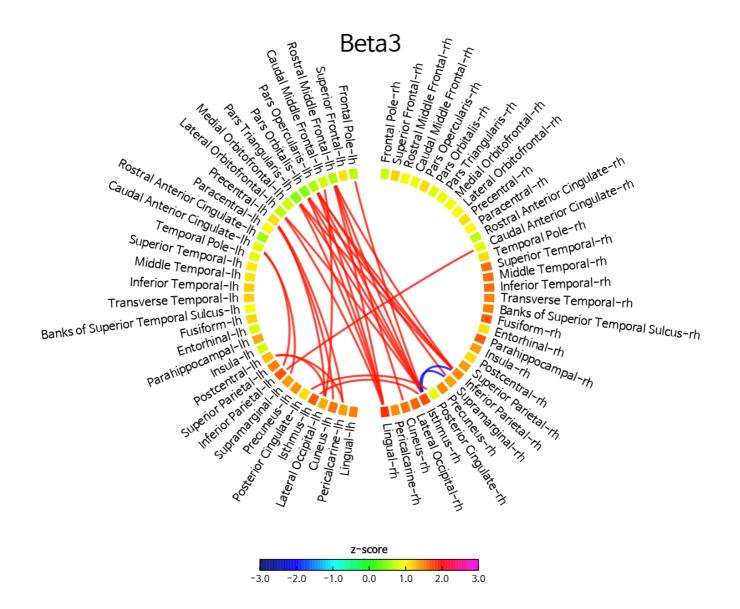
7-2-5-Beta1(Relative)



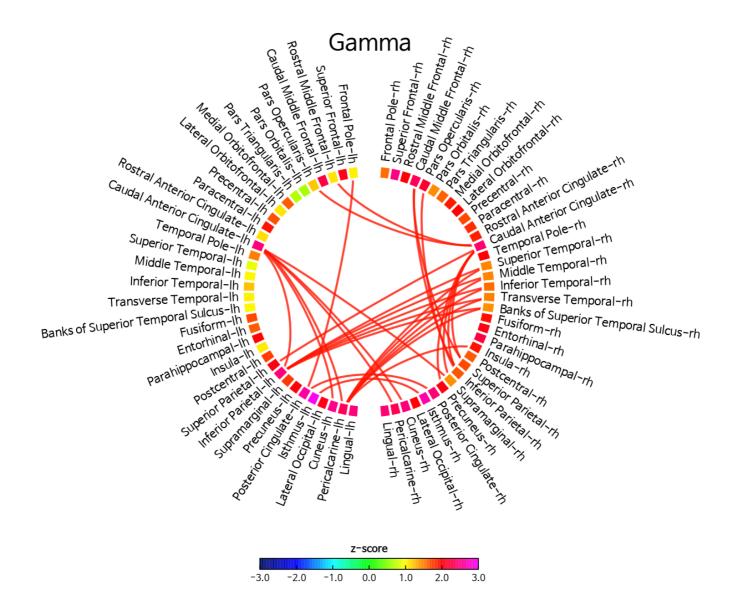
7-2-6-Beta2(Relative)



7-2-7-Beta3(Relative)



7-2-8-Gamma(Relative)



7-3-DMN

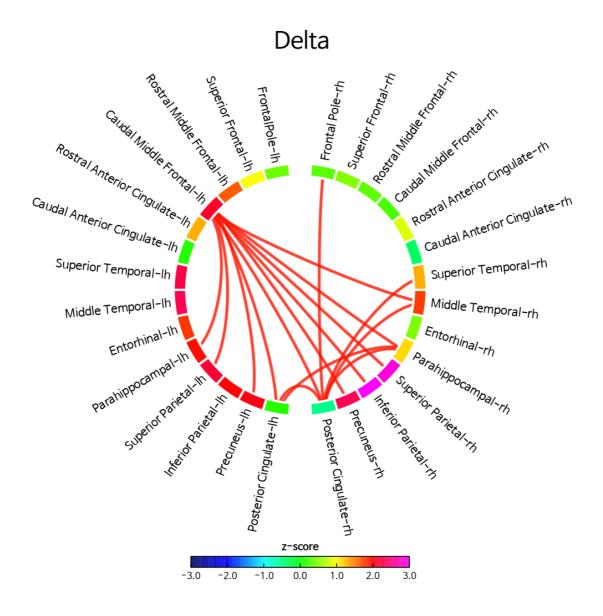
(1)Default mode network

The default mode network (DMN) is a network of brain regions that are relatively active in awake subjects in a resting state. It tends to deactivate during task performance and reactivate during passive rest.

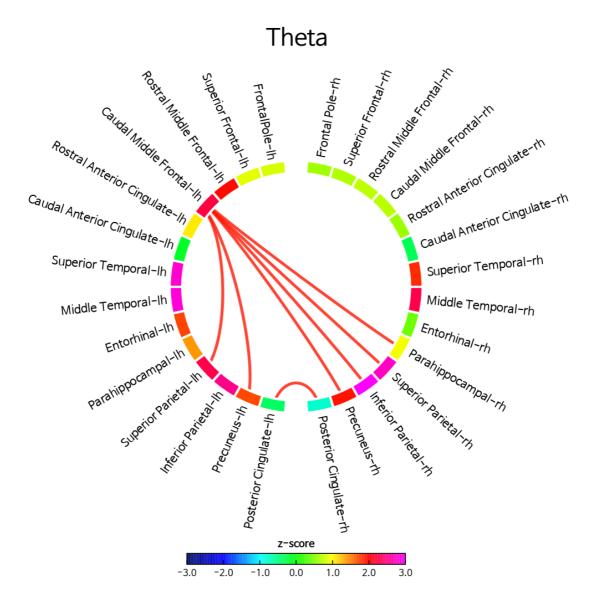
Clinical significance

Changes in functional connectivity of the DMN implicate several neurological and neuropsychiatric disorders such as Alzheimer`s disease, Parkinson`s disease (PD), epilepsy (especially temporal lobe epilepsy), ADHD, and mood disorders. More information on the clinical significance of the DMN can be found in the appendix.

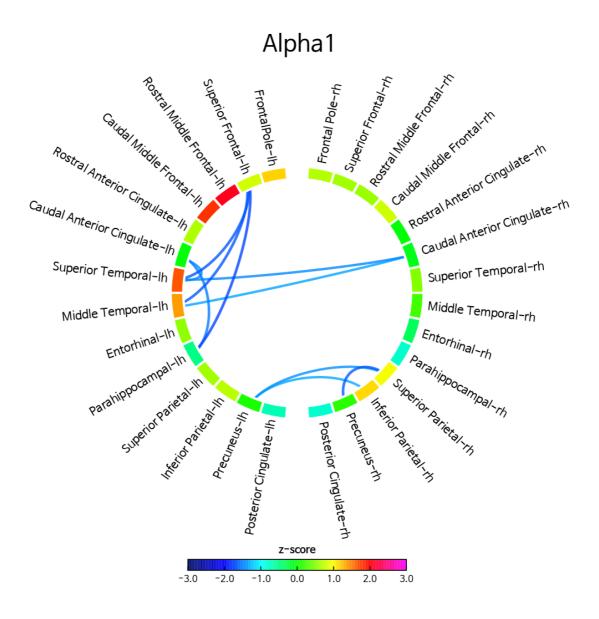
7-3-1-Delta(Absolute)



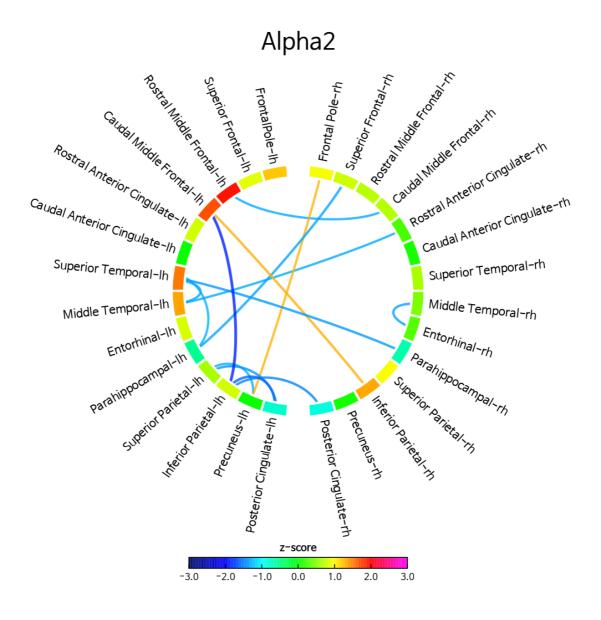
7-3-2-Theta(Absolute)



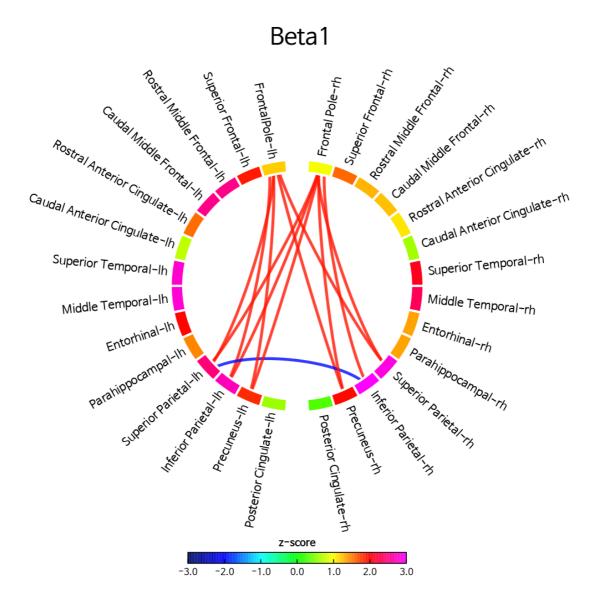
7-3-3-Alpha1(Absolute)



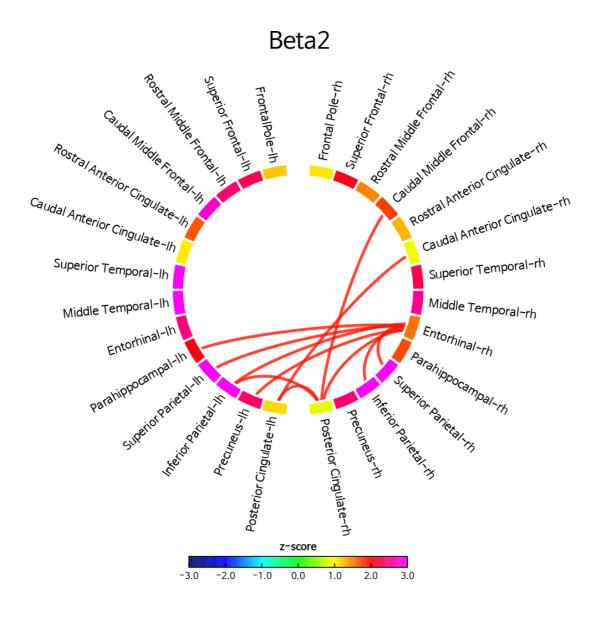
7-3-4-Alpha2(Absolute)



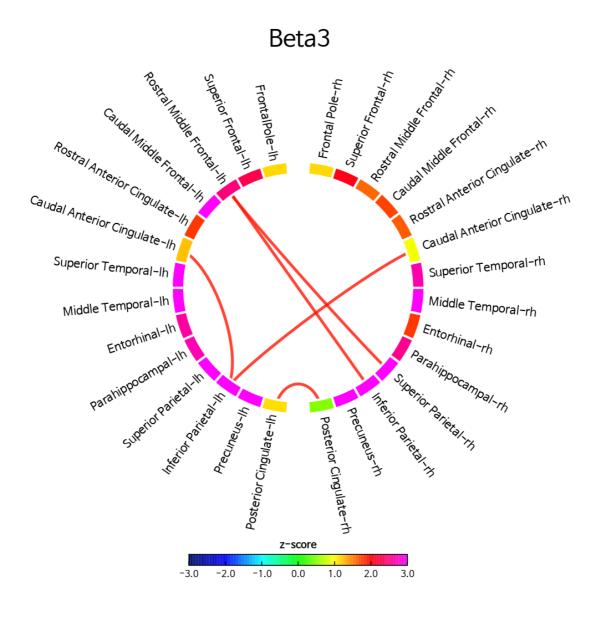
7-3-5-Beta1(Absolute)



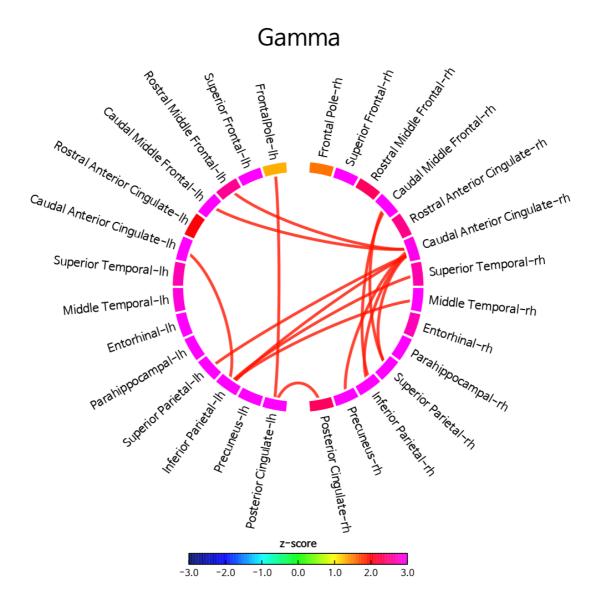
7-3-6-Beta2(Absolute)



7-3-7-Beta3(Absolute)



7-3-8-Gamma(Absolute)



7-4-DMN

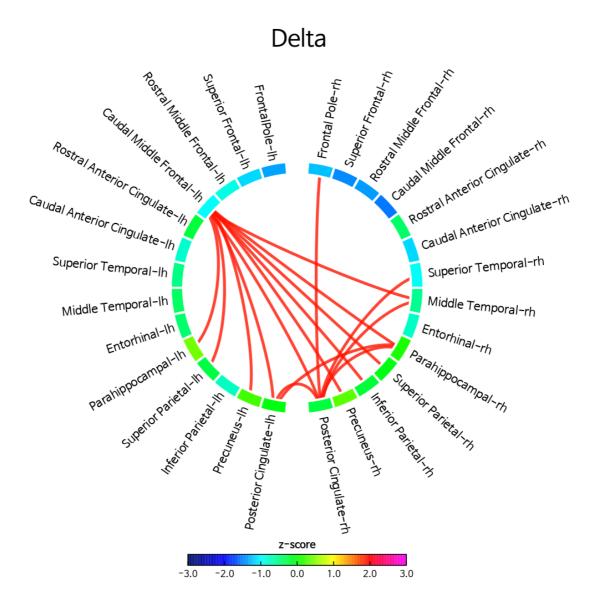
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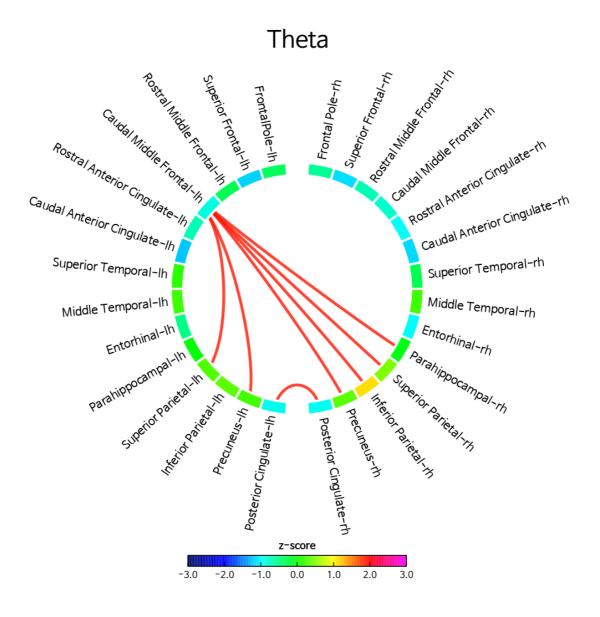
Clinical significance

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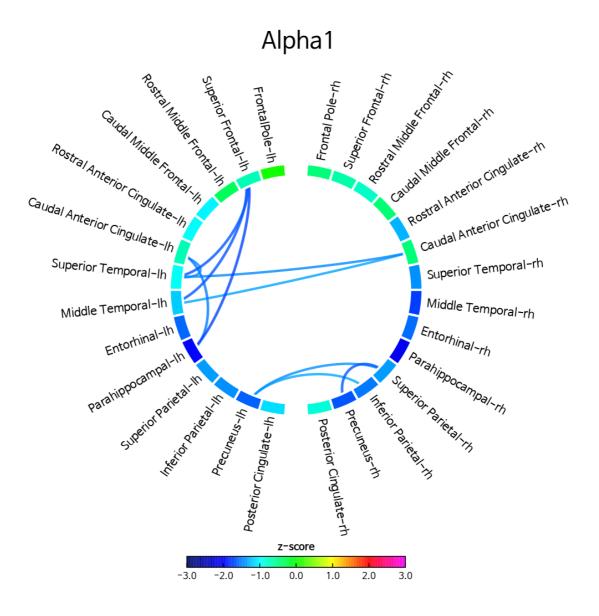
7-4-1-Delta(Relative)



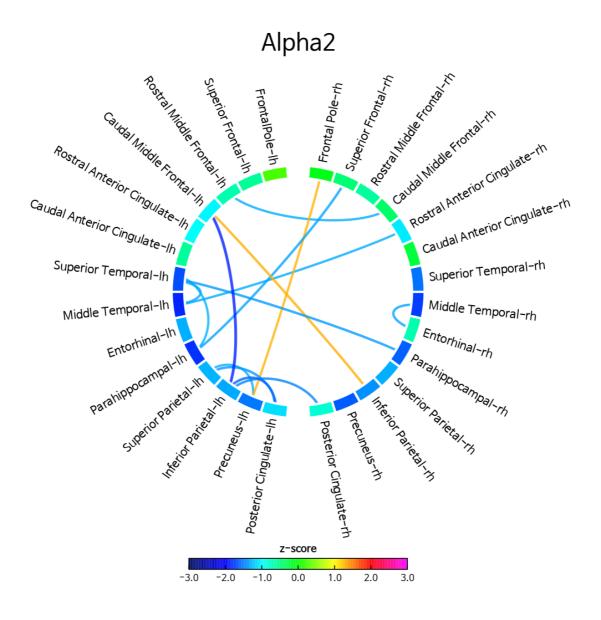
7-4-2-Theta(Relative)



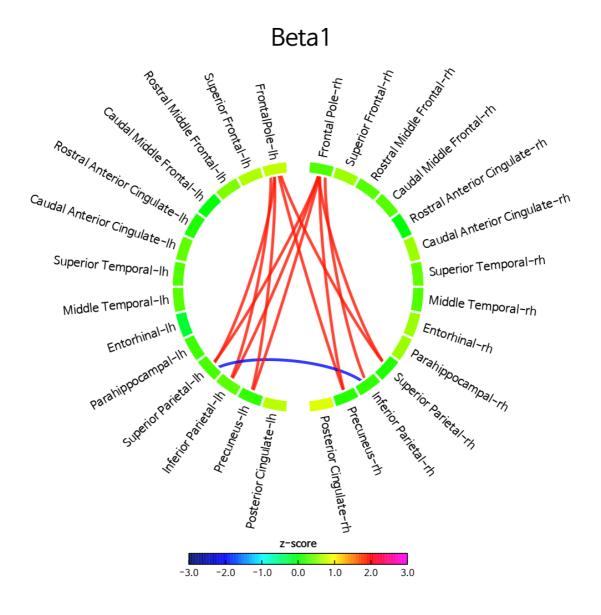
7-4-3-Alpha1(Relative)



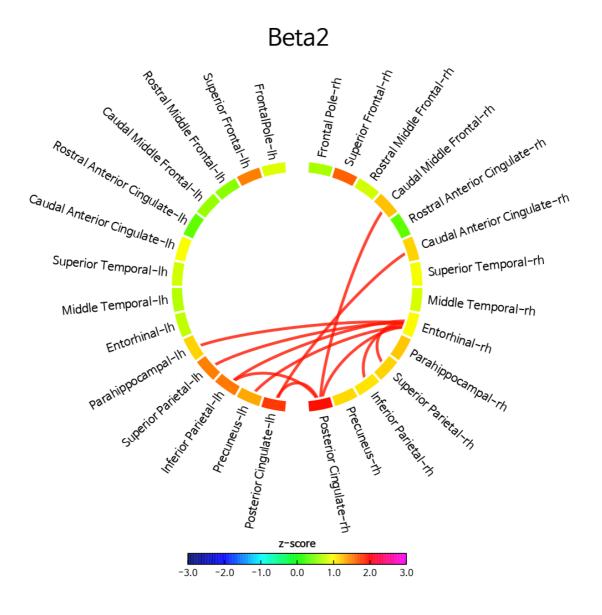
7-4-4-Alpha2(Relative)



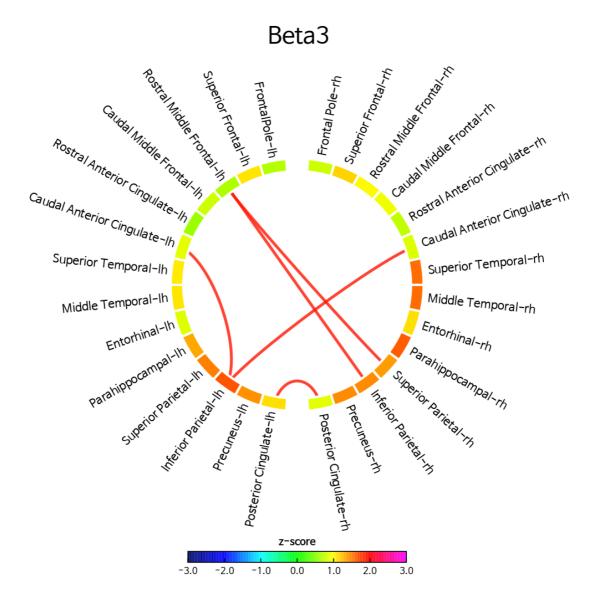
7-4-5-Beta1(Relative)



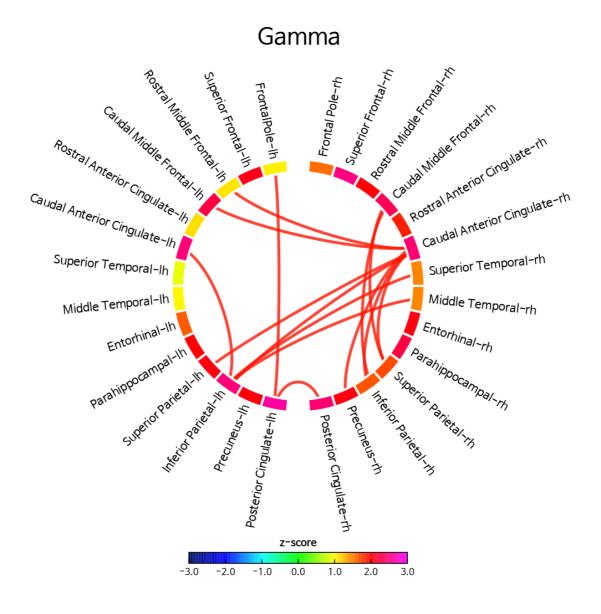
7-4-6-Beta2(Relative)



7-4-7-Beta3(Relative)



7-4-8-Gamma(Relative)



III. Reference

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T163	Squire LR. Encyclopedia of neuroscience. Amsterdam: Academic Press; 2009.
T162	Ramachandran VS. Encyclopedia of human brain. San Diego: Academic Press; 2002.
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[등록상표권]

아이메디신, iMediSync, iSyncBrain, iSyncHeart, iSyncBeat 로고는 주식회사 아이메디신의 등록상표입니다.