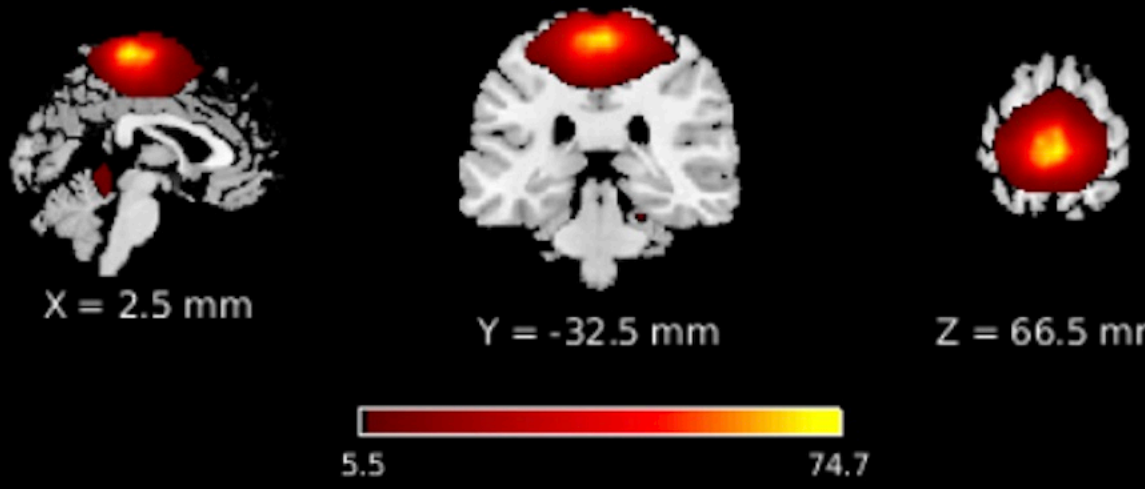
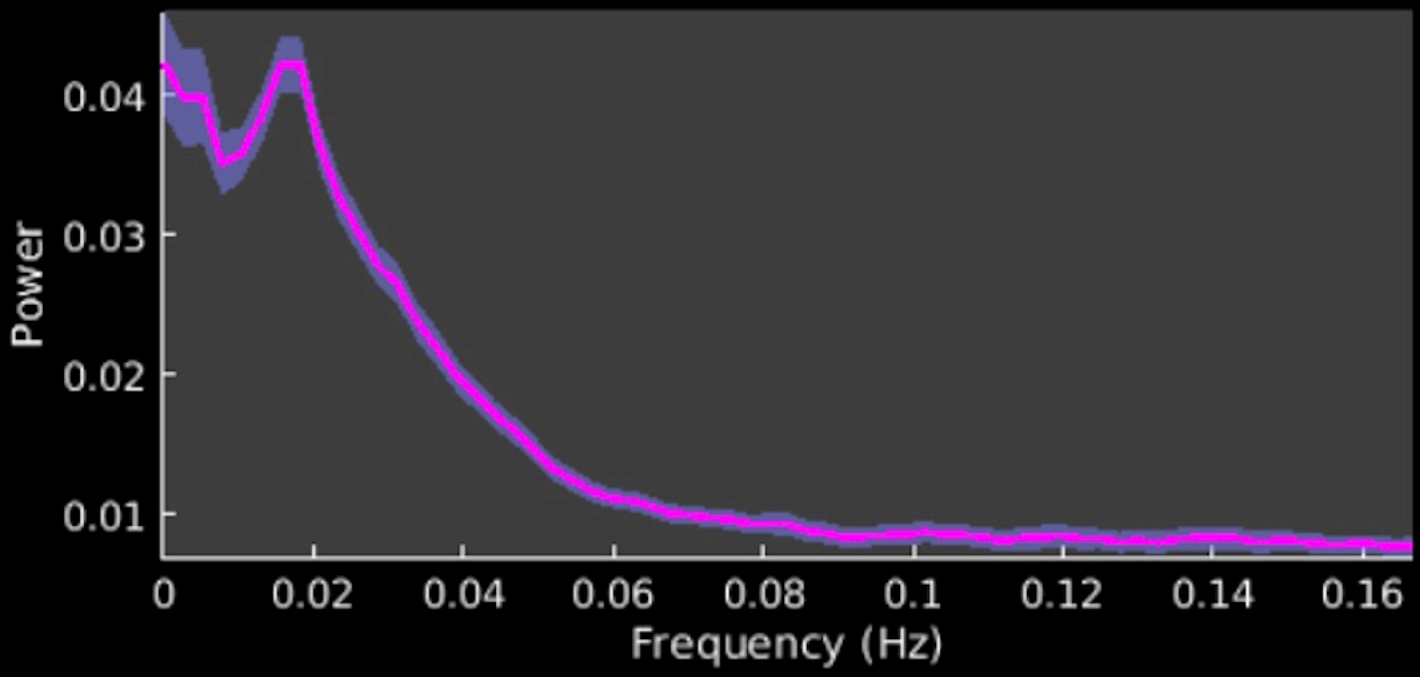
Supplementary Figure 3-30: Spatial Maps of all 27 selected NeuroMark Independent Components. The following supplementary figures include spatial maps, high resolution standardized heat maps that are produced from fMRI scans. Each figure corresponds to one of the 27 selected NeuroMark ICs. Each map shows the regions within the brain that reflect the greatest amount of activity. The peak coordinates within each brain region that show the greatest activity during the scan are represented in yellow, while the surrounding red regions indicate activity at a lower intensity. Within each spatial map, a power time series course is included to ensure the validity of the data. Power time series courses for a typical spatial map show a peak in power in low frequencies with a decrease in power as frequency increases. Peak activity signals and the power time series are reported within each spatial map. Both depict the highest activity points of each NeuroMark component that survive the time series. In this study, all spatial maps collected for each IC accurately followed the frequency path of a typical power time series course.

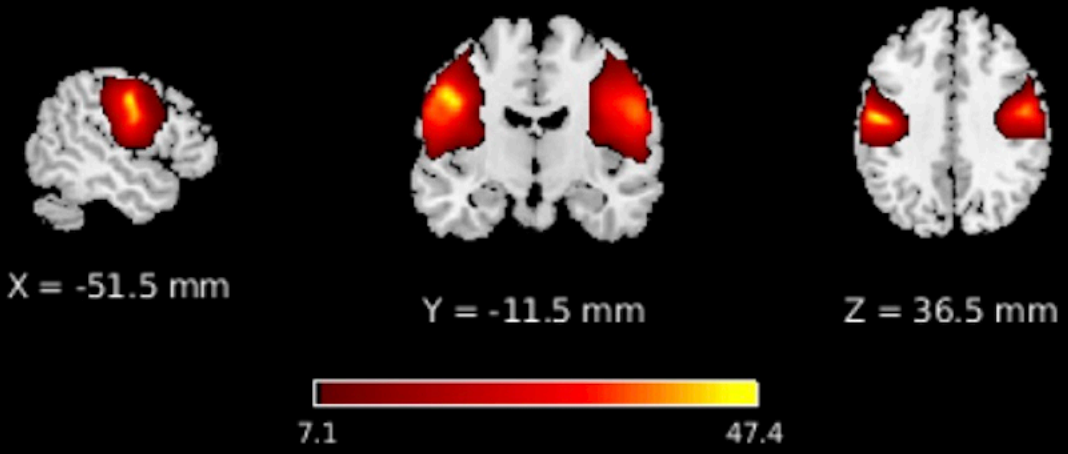
IC 2: Paracentral Lobule

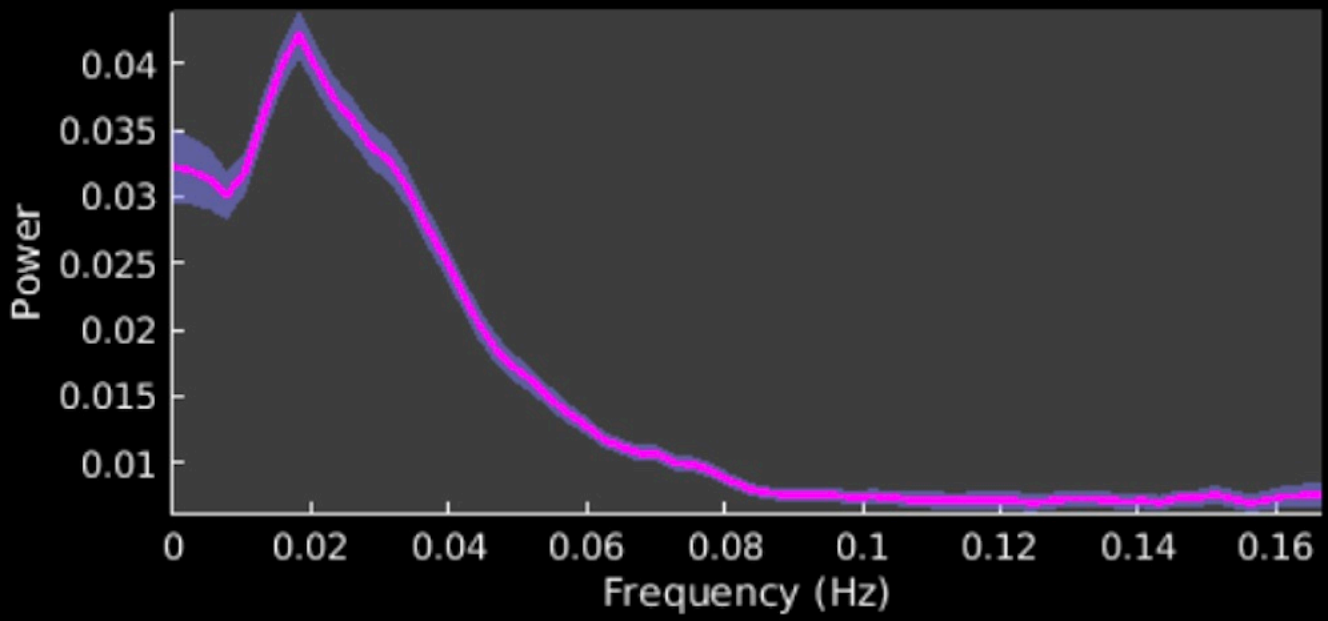


Dynamic range: 0.055, Power$_{LF}$/Power$_{HF}$: 33.340

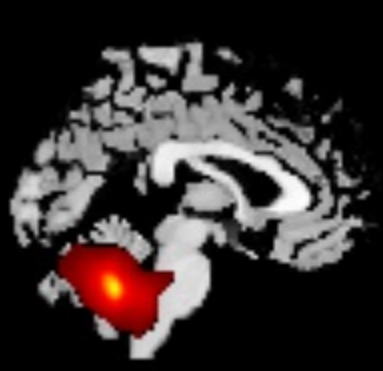


IC 3: Postcentral Gyrus

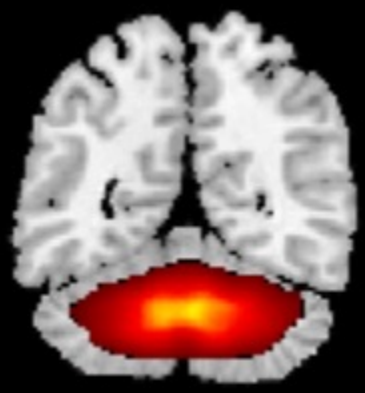




IC 4: Cerebellum

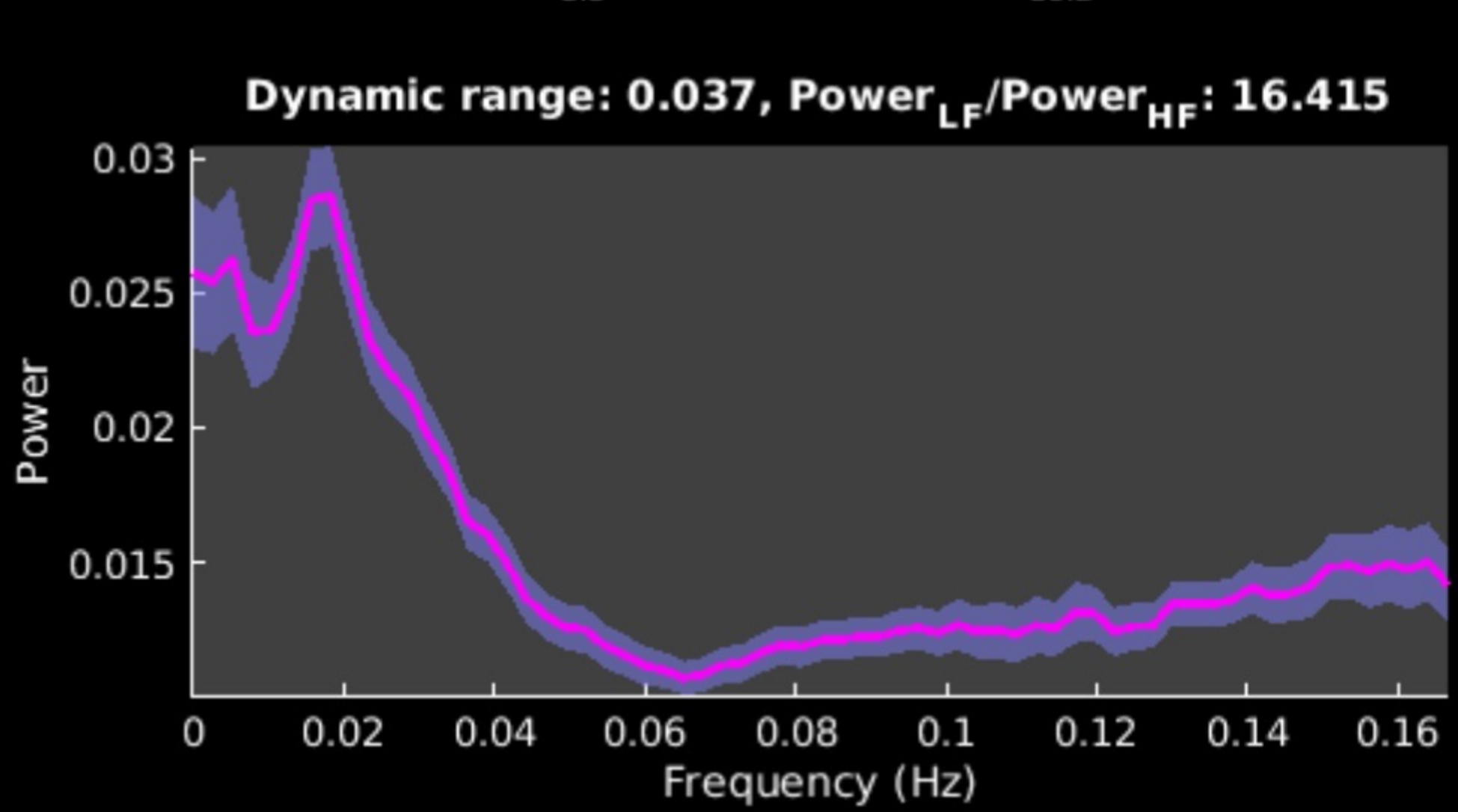


X = 2.5 mm

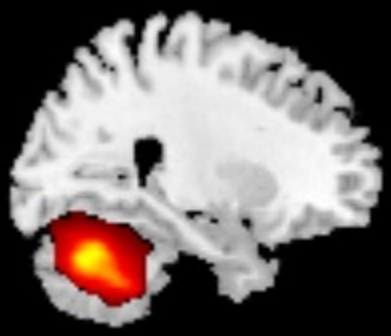


Y = -56.5 mm

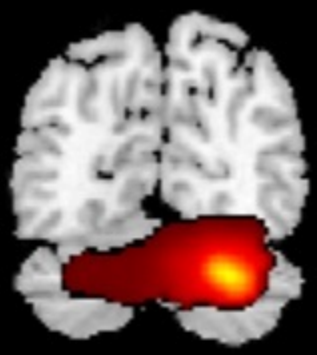
Z = -41.5 mm



IC 7: Cerebellum

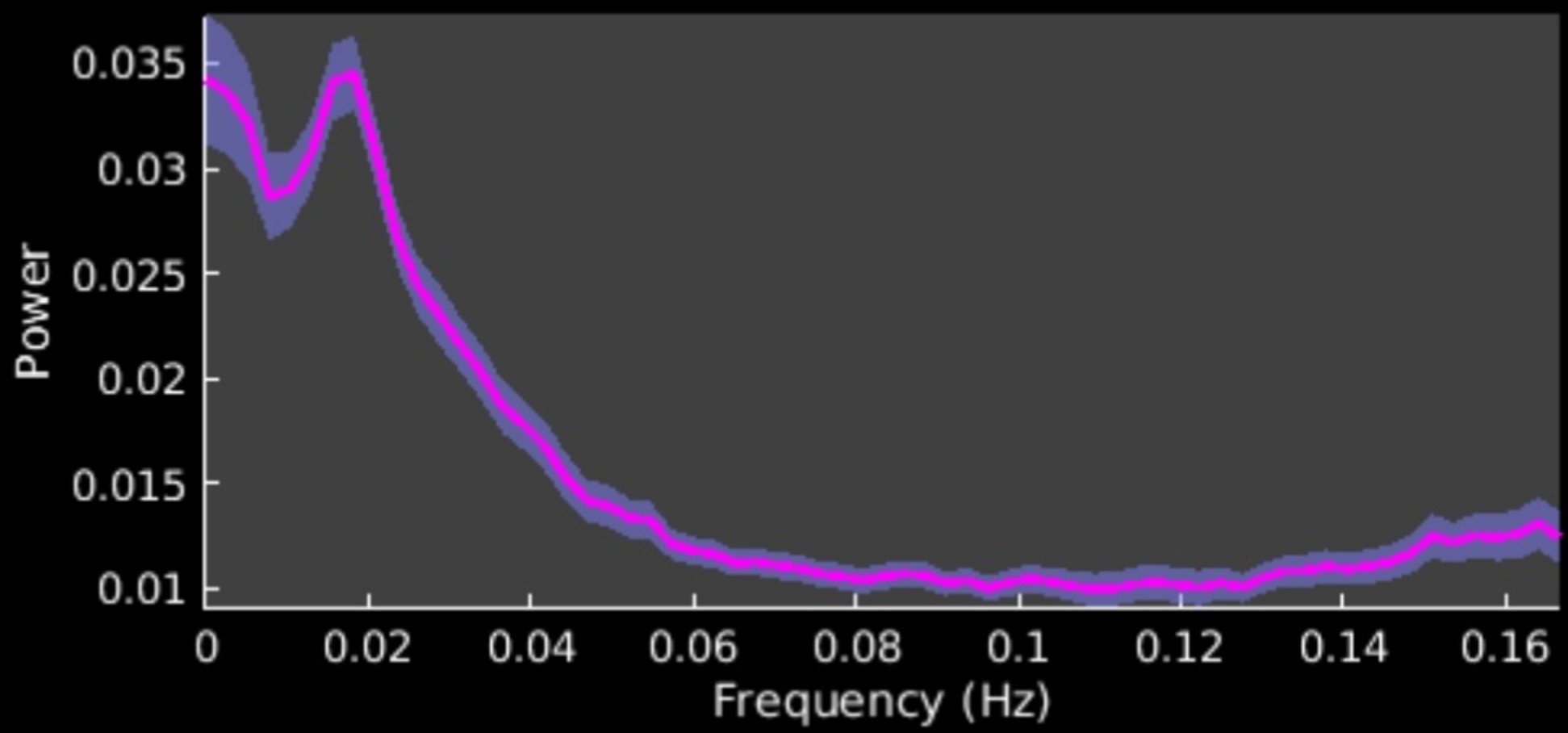


X = 26.5 mm

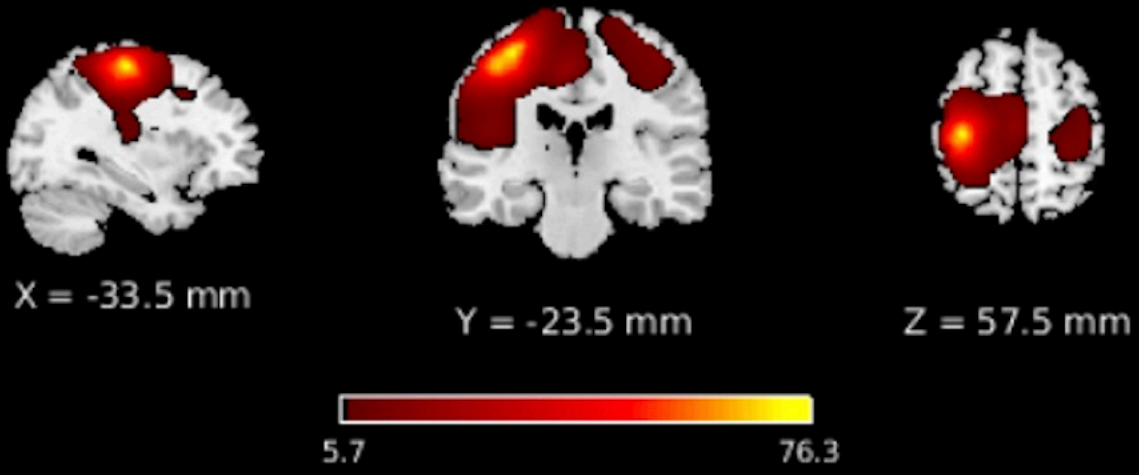


Y = -71.5 mm

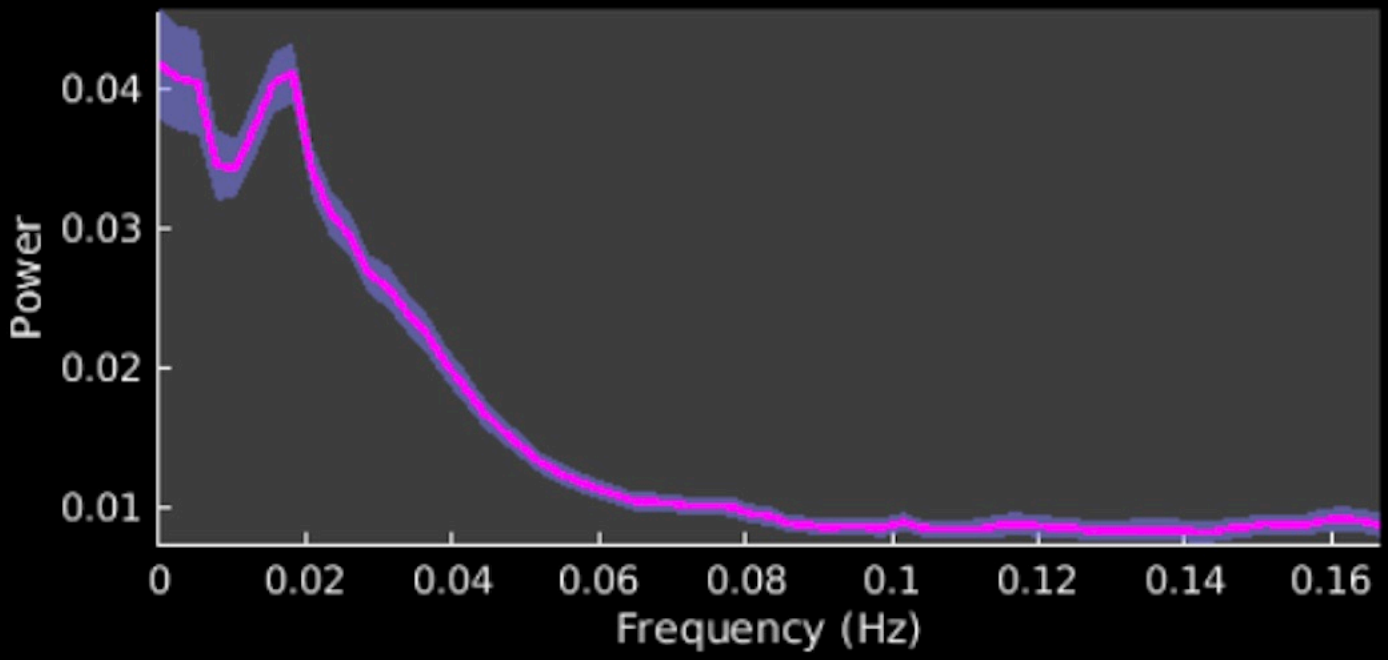
Z = -35.5 mm



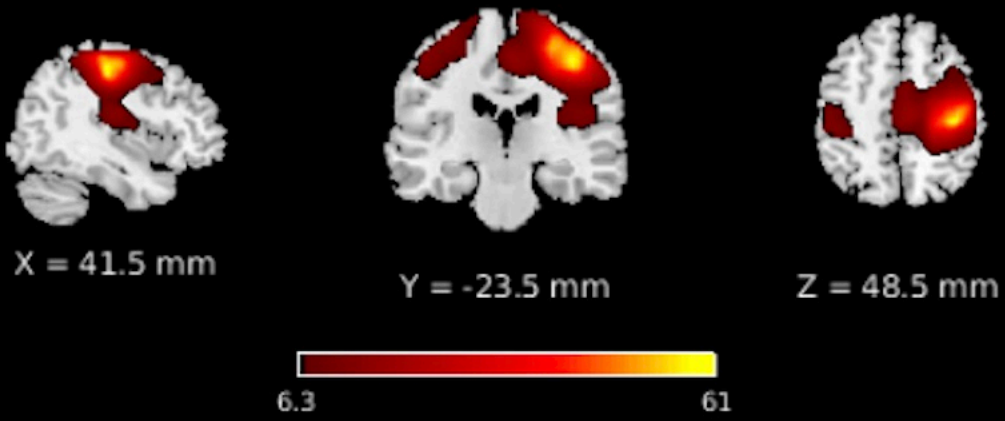
IC 9: Left Postcentral Gyrus

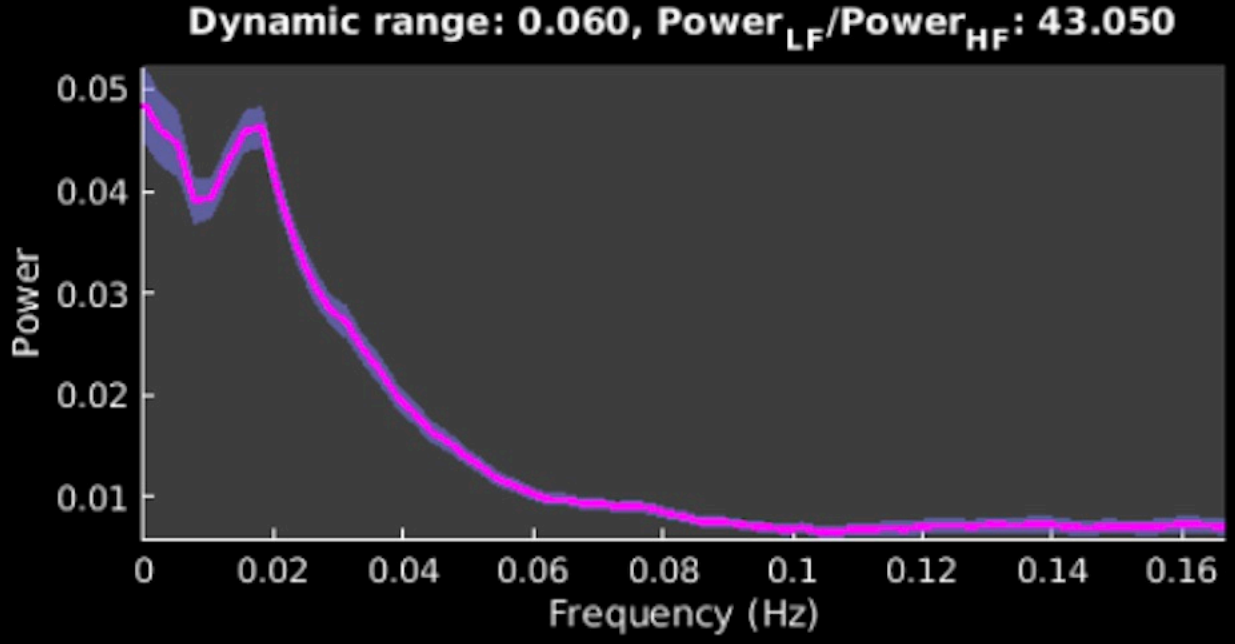


Dynamic range: 0.054, $Power_{LF}/Power_{HF}$: 41.172

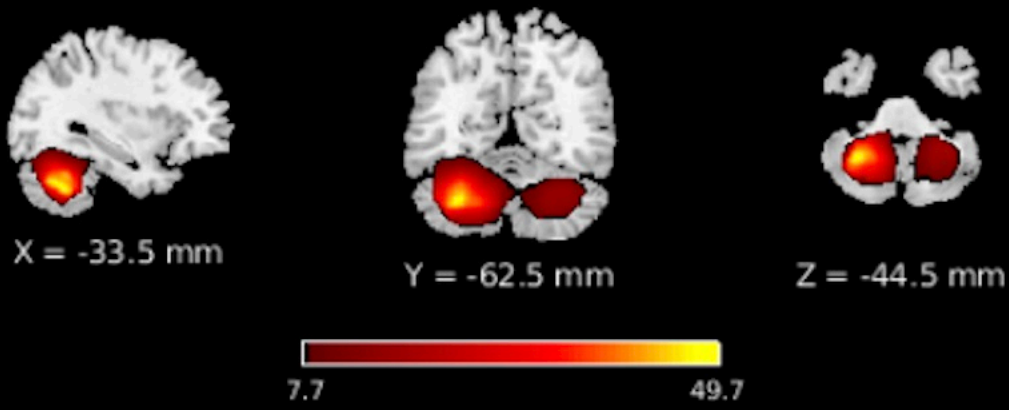


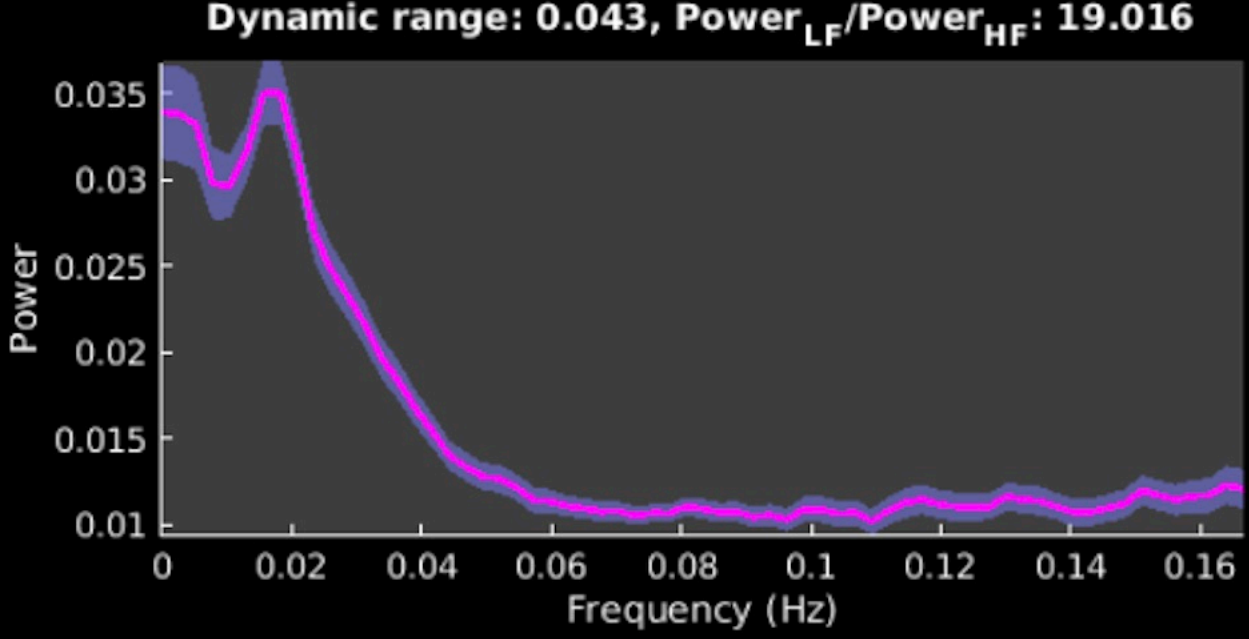
IC 11: Right Postcentral Gyrus



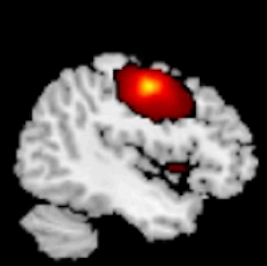


IC 13: Cerebellum

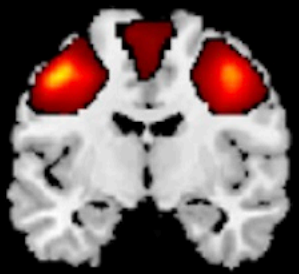




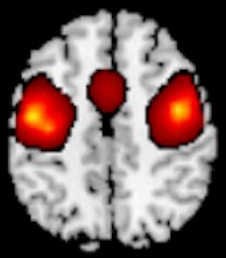
IC 14: Precentral Gyrus



X = -45.5 mm

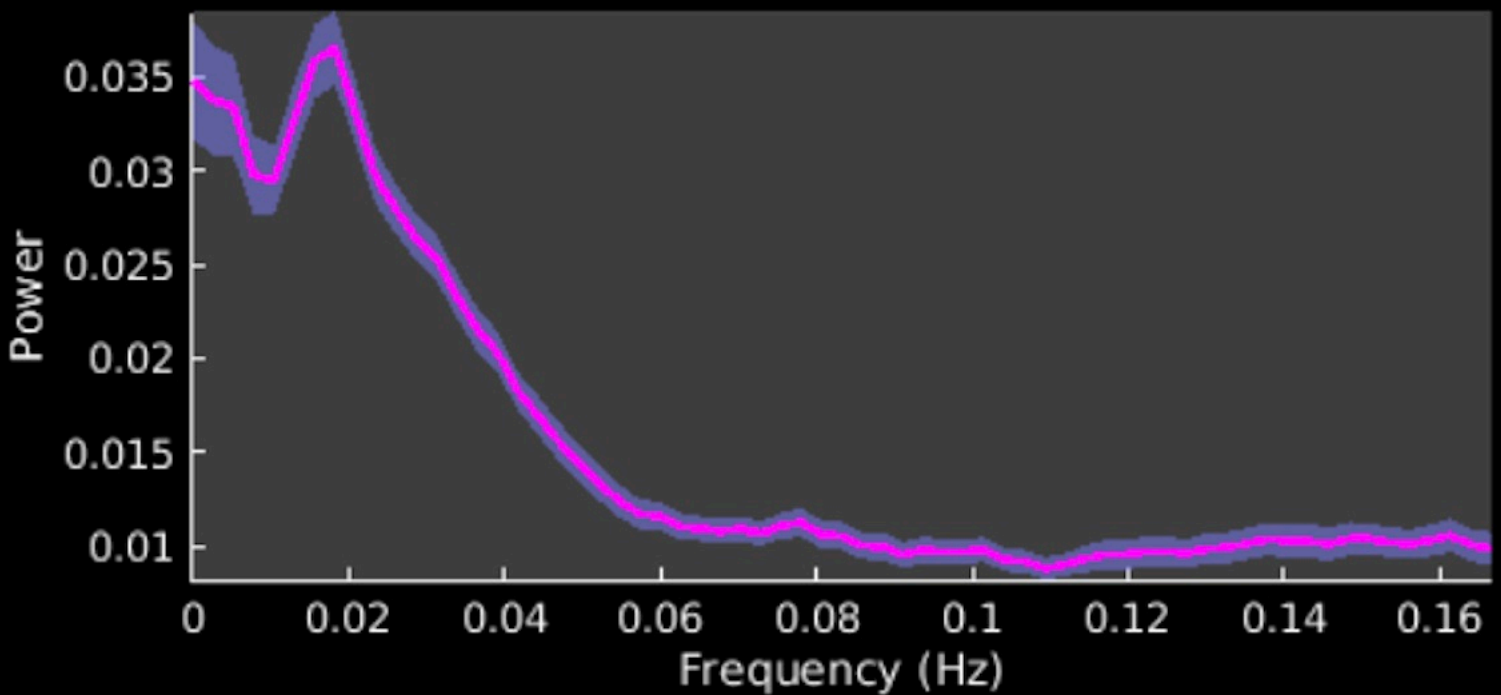


Y = -8.5 mm

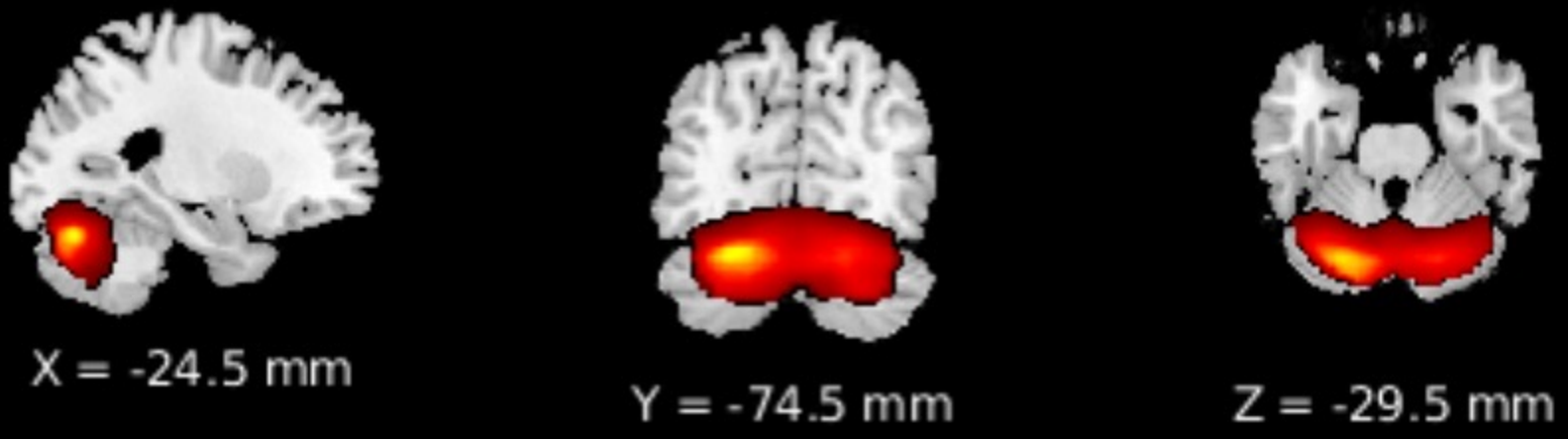


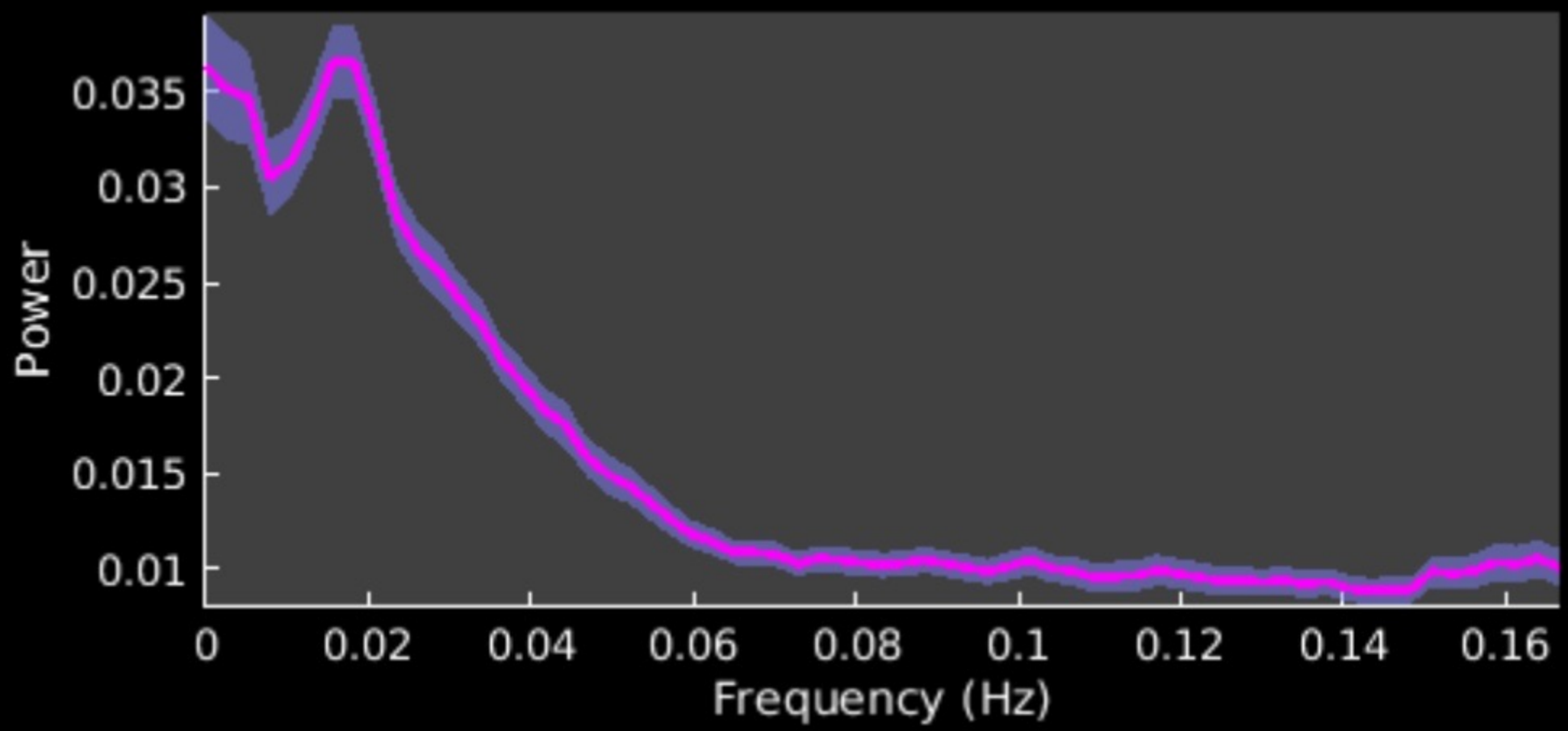
Z = 45.5 mm

Dynamic range: 0.046, $Power_{LF}/Power_{HF}$: 24.615

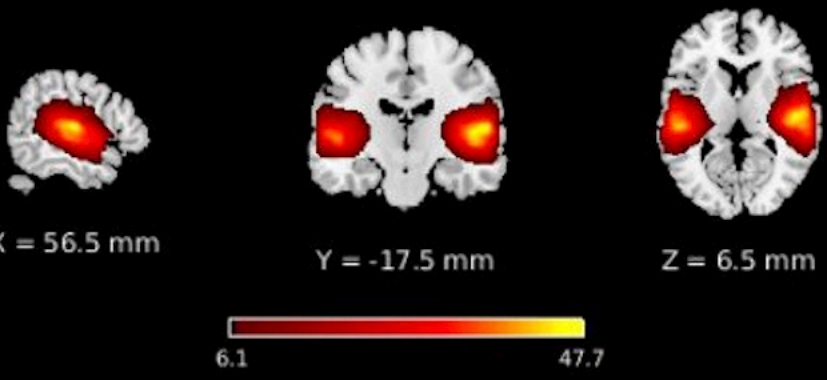


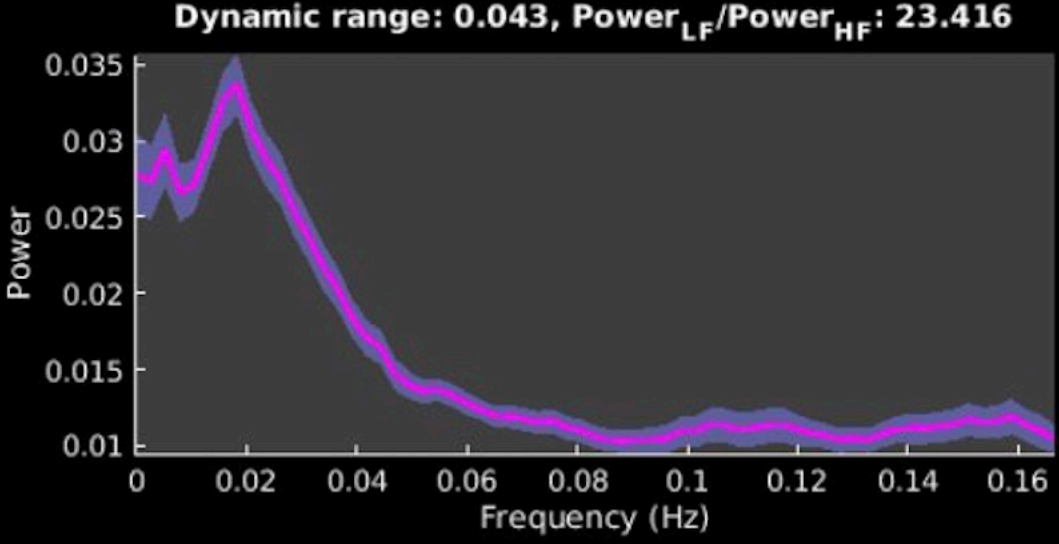
IC 18: Cerebellum



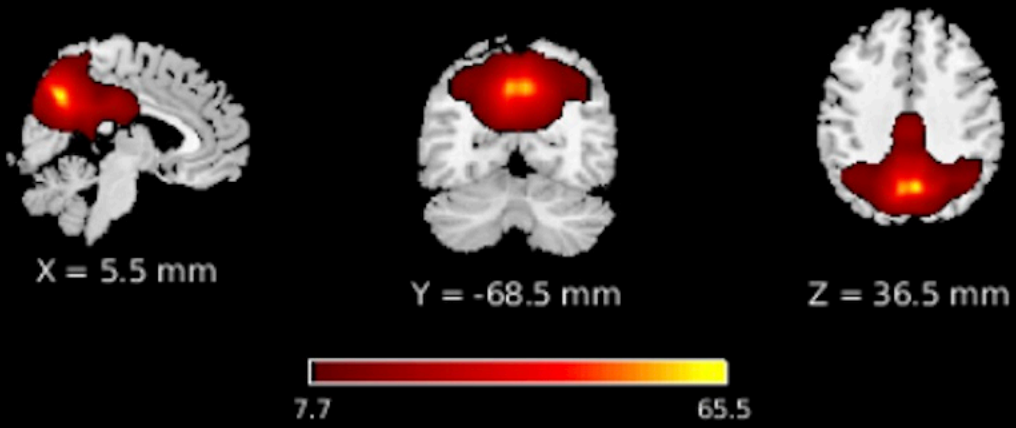


IC 21: Superior Temporal Gyrus

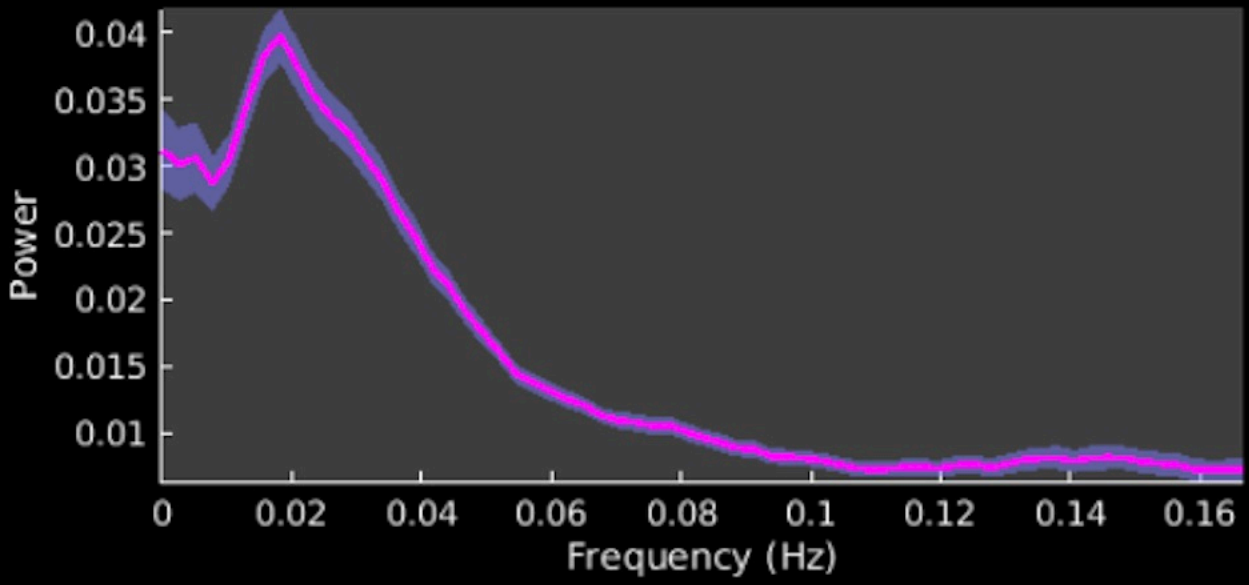




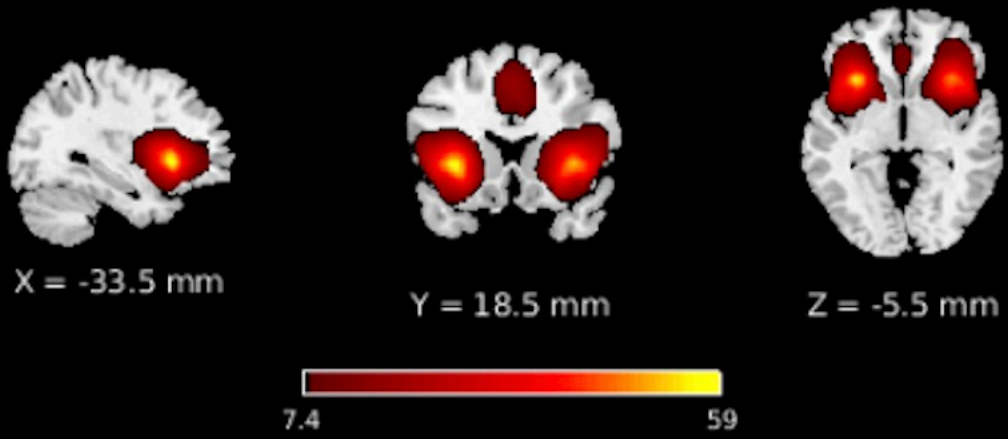
IC 32: Precuneus



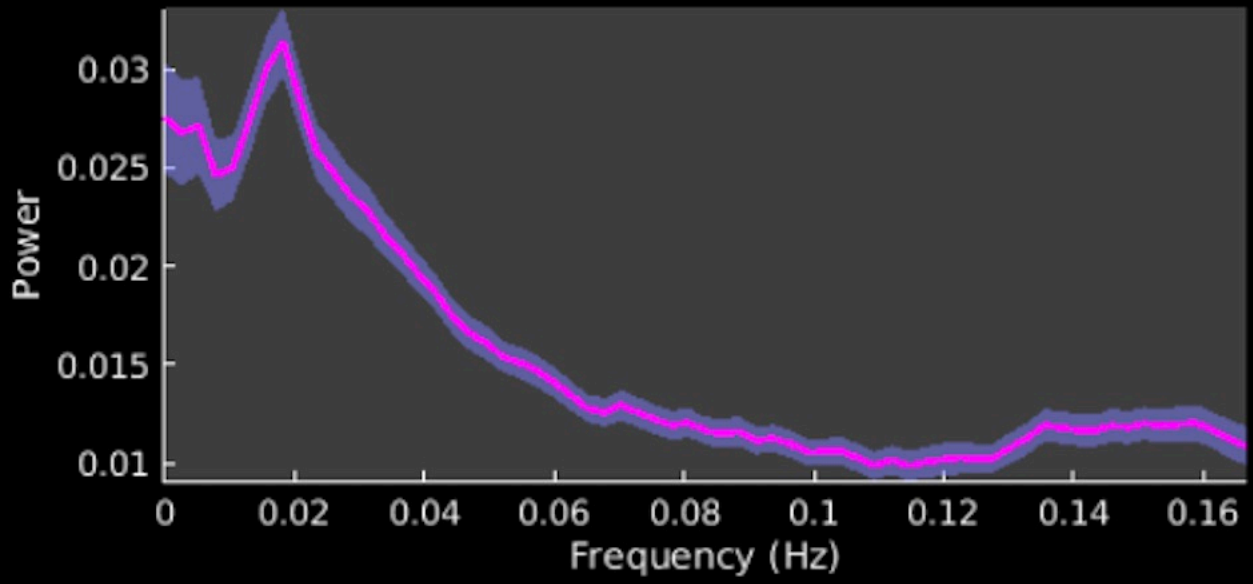
Dynamic range: 0.047, Power$_{LF}$/Power$_{HF}$: 54.868



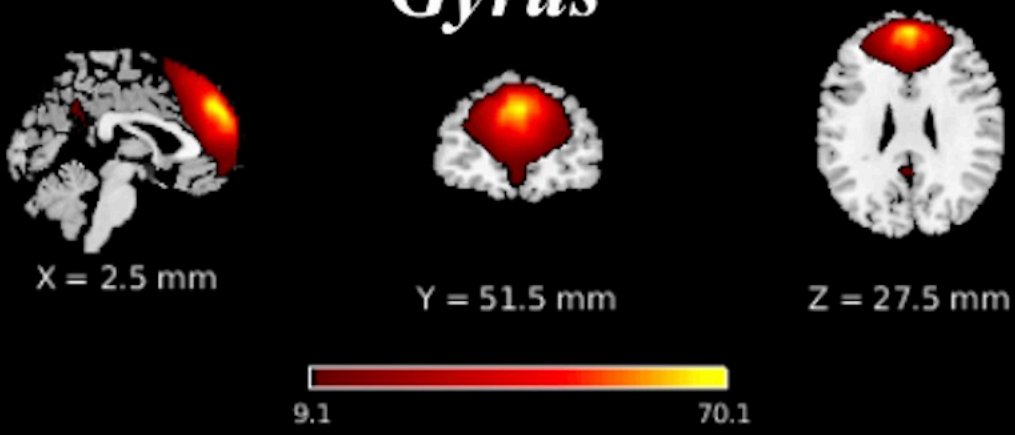
IC 33: Insula



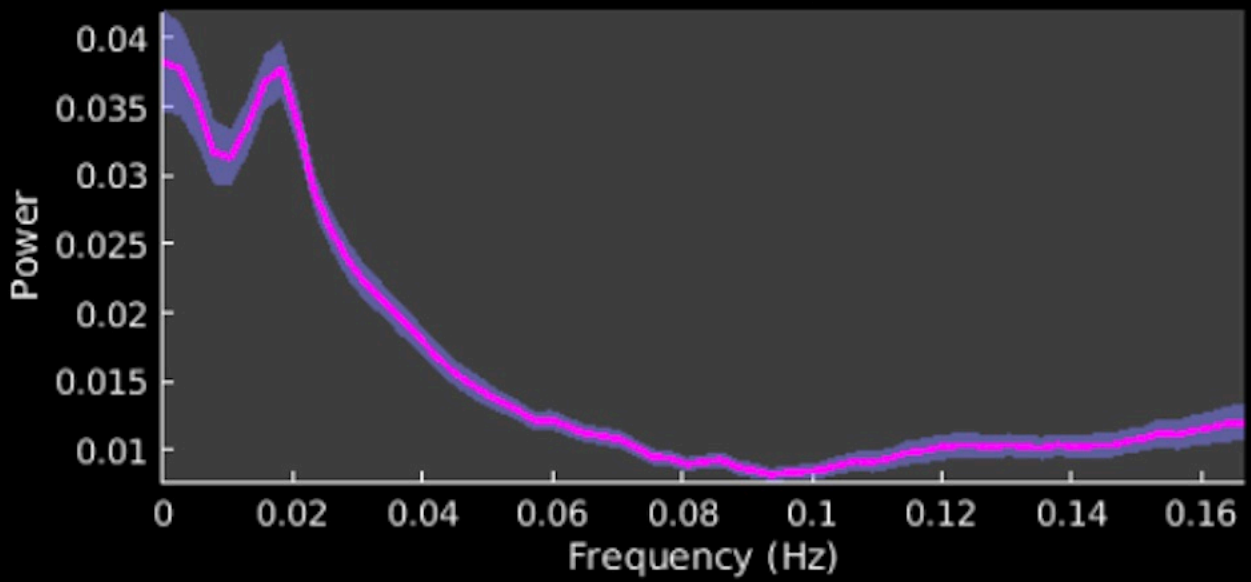
Dynamic range: 0.038, $Power_{LF}/Power_{HF}$: 20.833



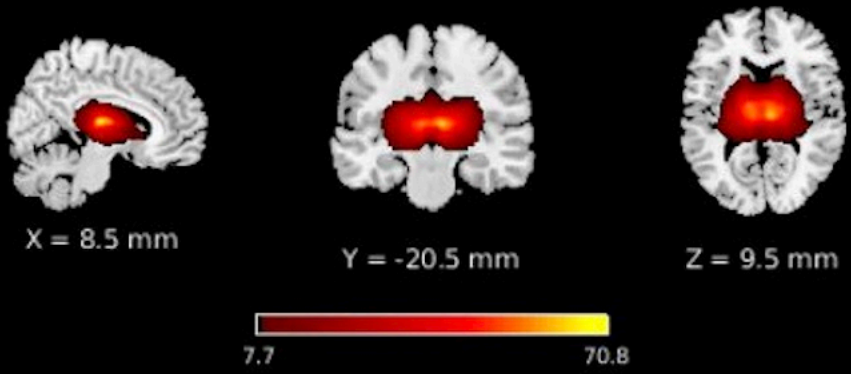
IC 43: Superior Medial Frontal Gyrus



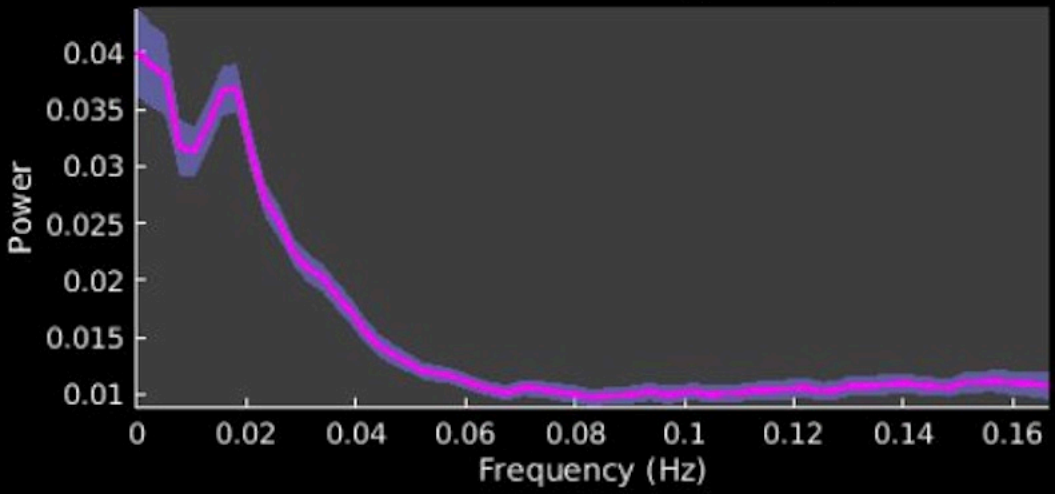
Dynamic range: 0.048, Power$_{LF}$/Power$_{HF}$: 34.288



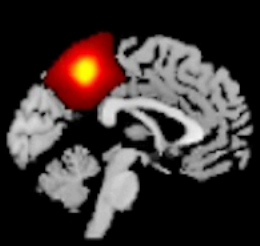
IC 45: Thalamus



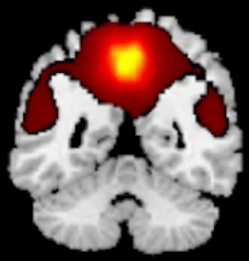
Dynamic range: 0.049, $Power_{LF}/Power_{HF}$: 26.108



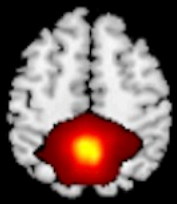
IC 51: Precuneus



X = -0.5 mm

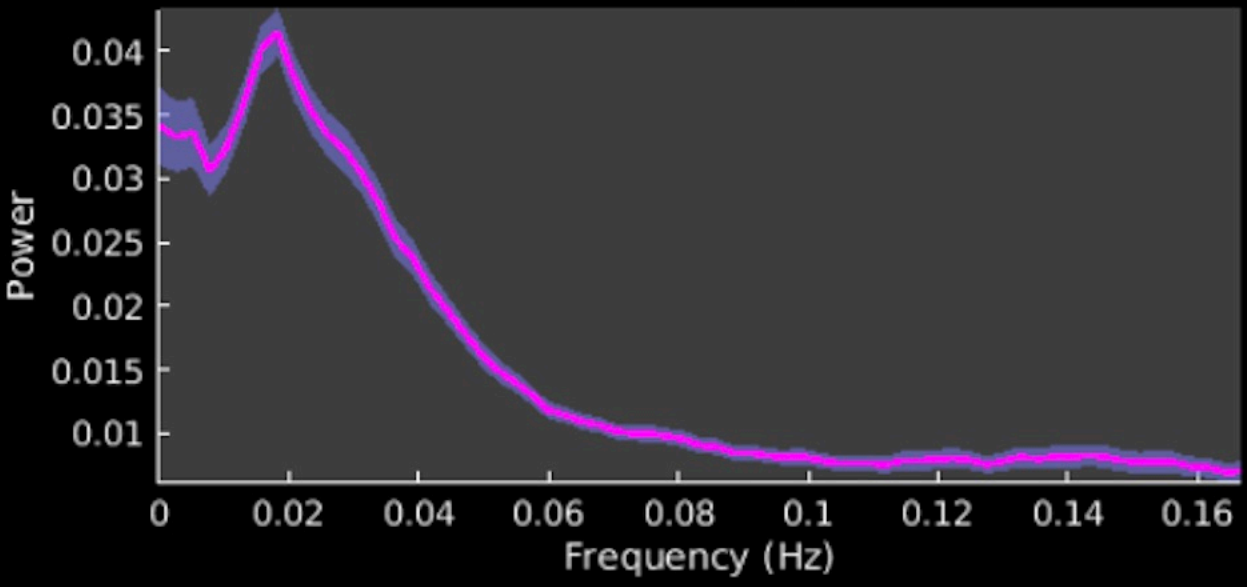


Y = -50.5 mm

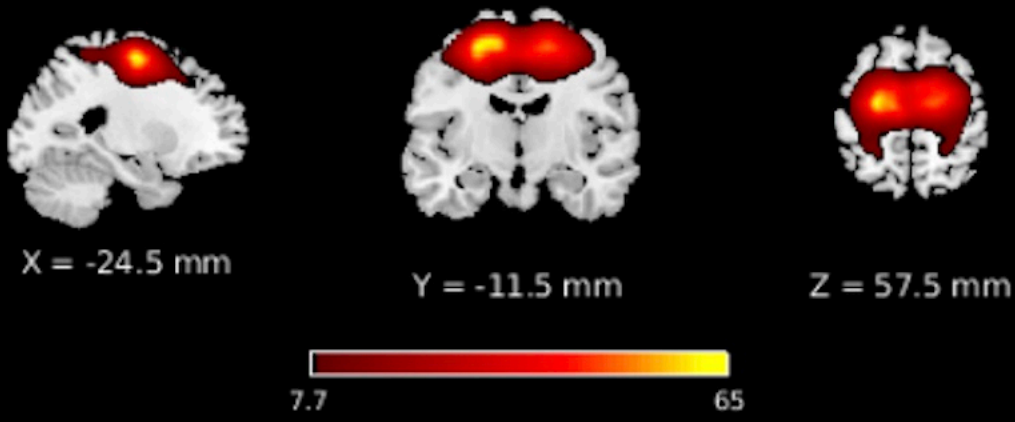


Z = 51.5 mm

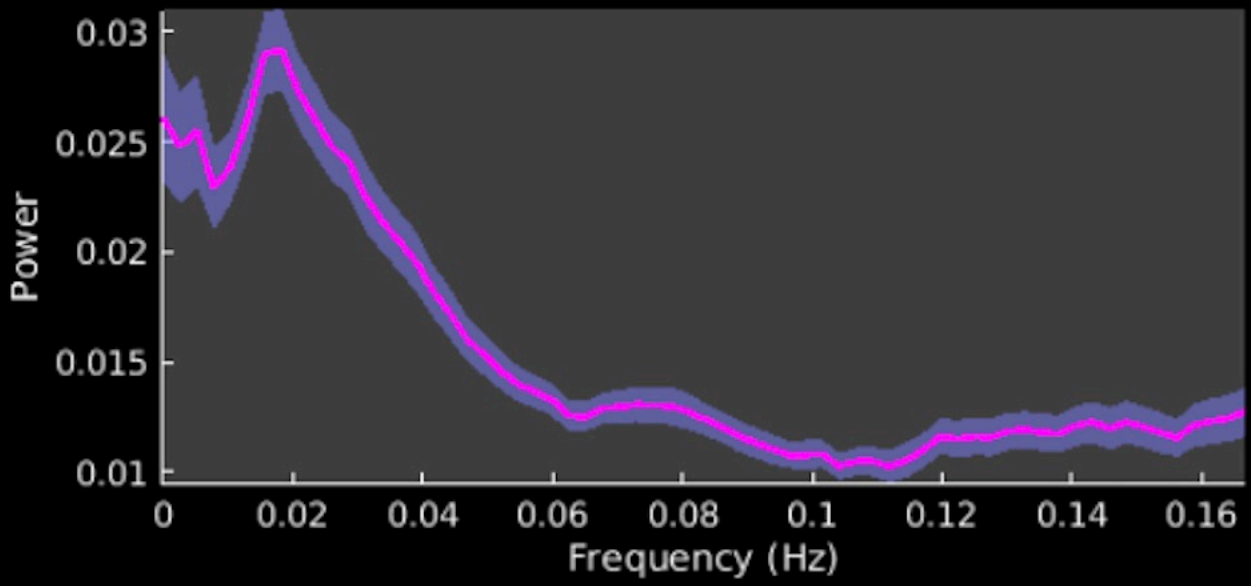
Dynamic range: 0.049, $Power_{LF}/Power_{HF}$: 52.201



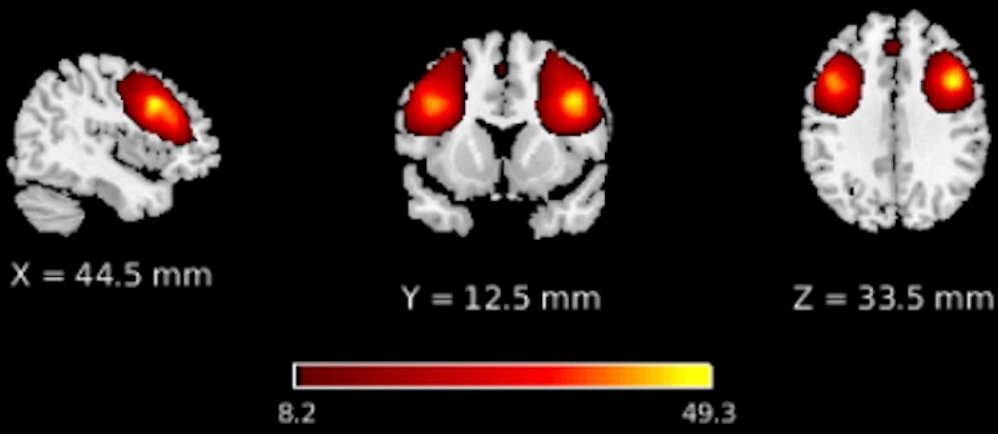
IC 54: Paracentral Lobule



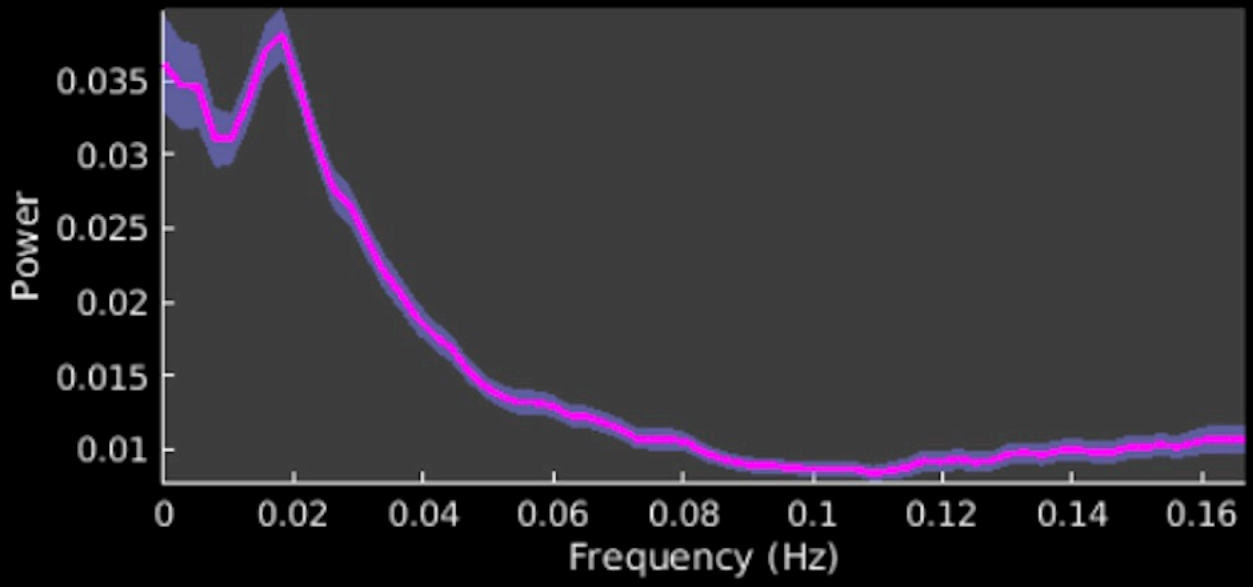
Dynamic range: 0.039, $Power_{LF}/Power_{HF}$: 16.187



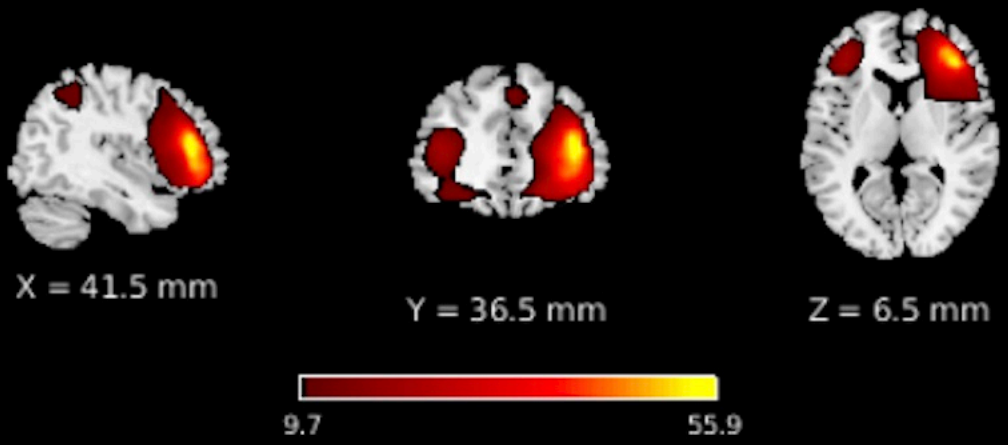
IC 55: Middle Frontal Gyrus



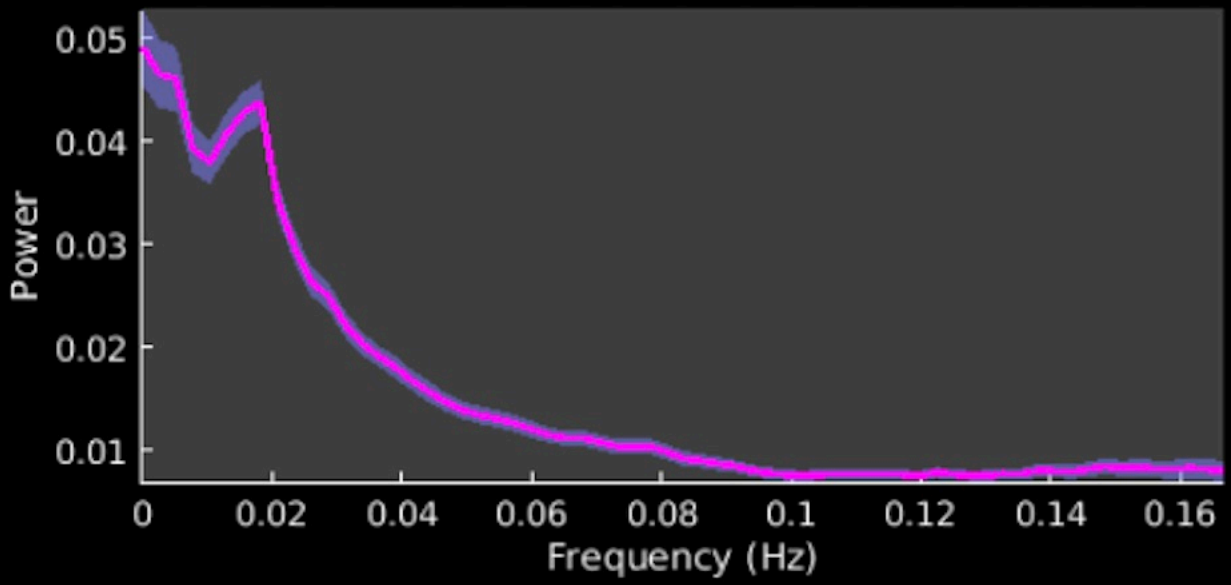
Dynamic range: 0.046, $Power_{LF}/Power_{HF}$: 25.464



IC 67: Inferior Frontal Gyrus

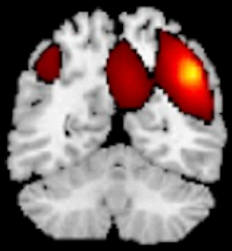


Dynamic range: 0.055, $Power_{LF}/Power_{HF}$: 43.921

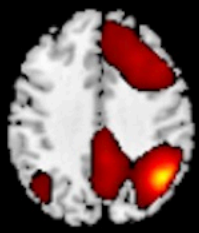


IC 68: Inferior Parietal Lobule

X = 47.5 mm



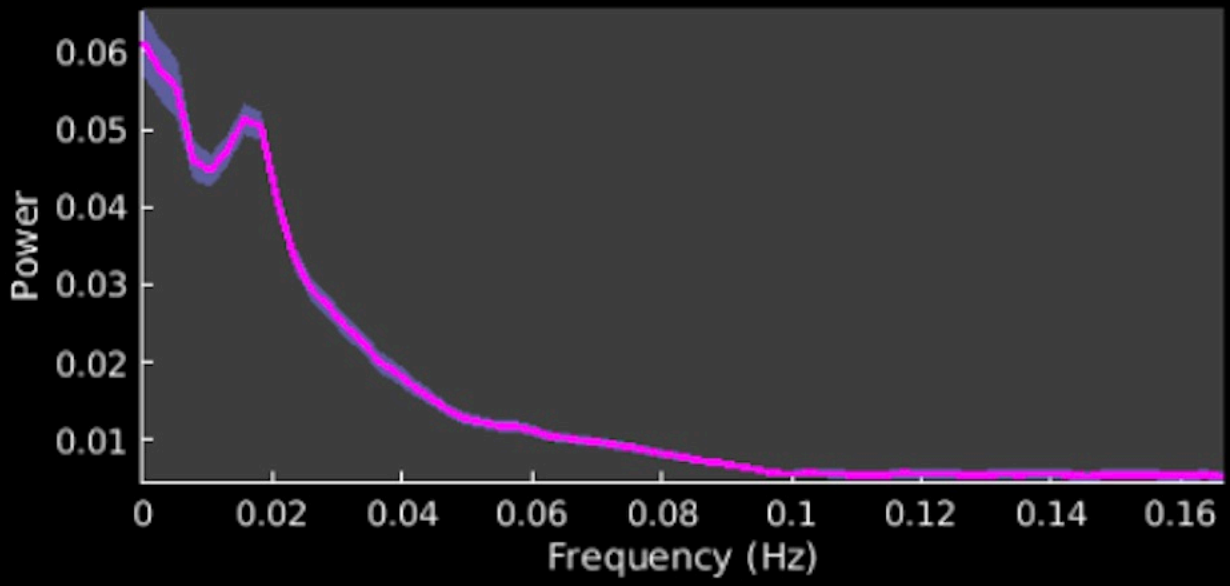
Y = -59.5 mm



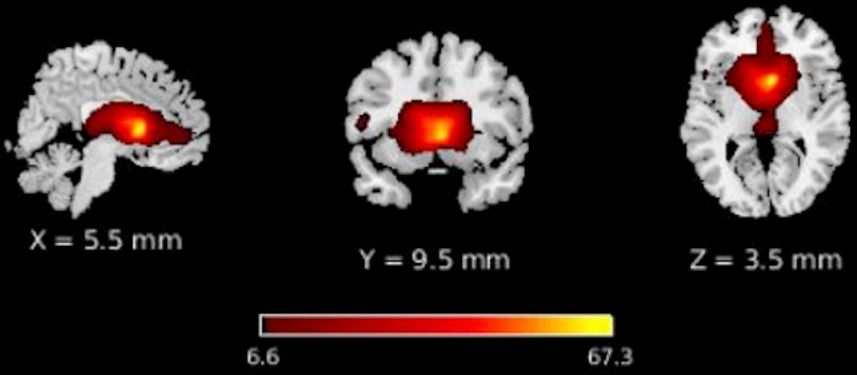
Z = 36.5 mm

8.8 54.8

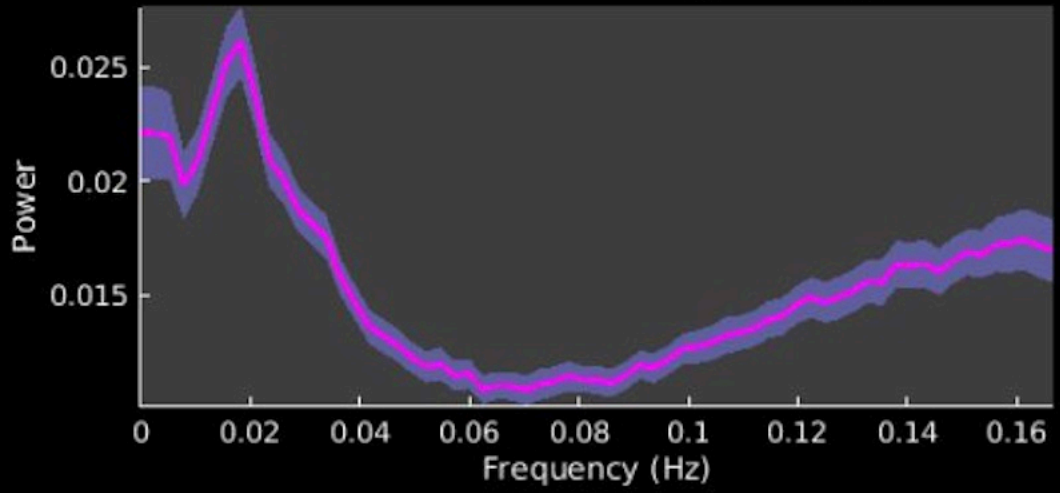
Dynamic range: 0.070, $Power_{LF}/Power_{HF}$: 75.169



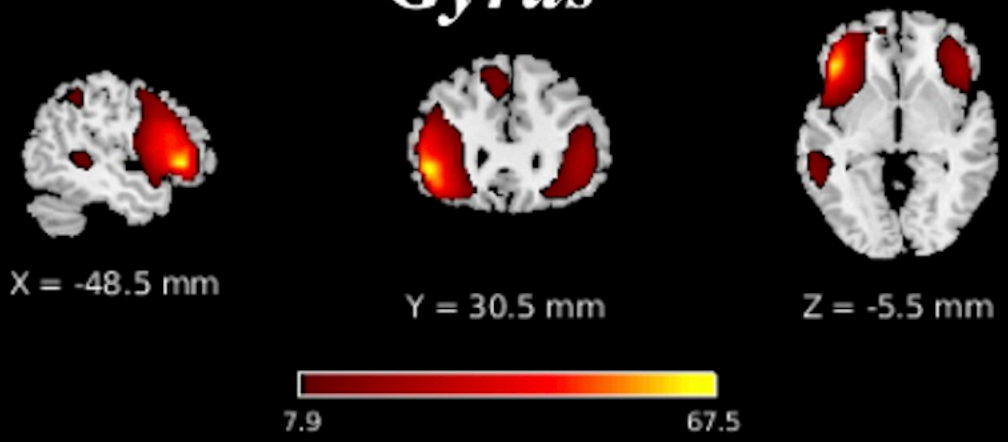
IC 69: Caudate



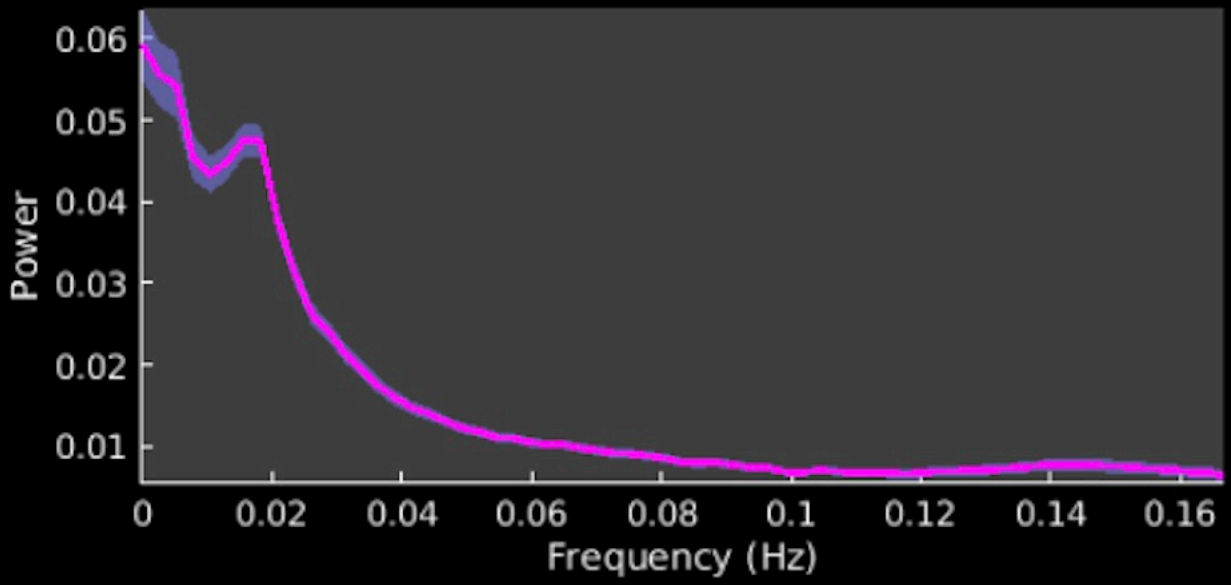
Dynamic range: 0.029, Power$_{LF}$/Power$_{HF}$: 9.848



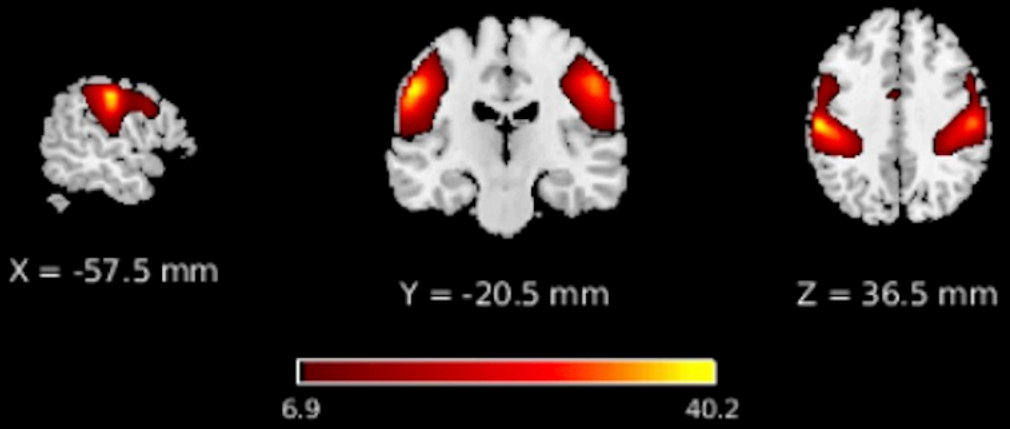
IC 70: Inferior Frontal Gyrus



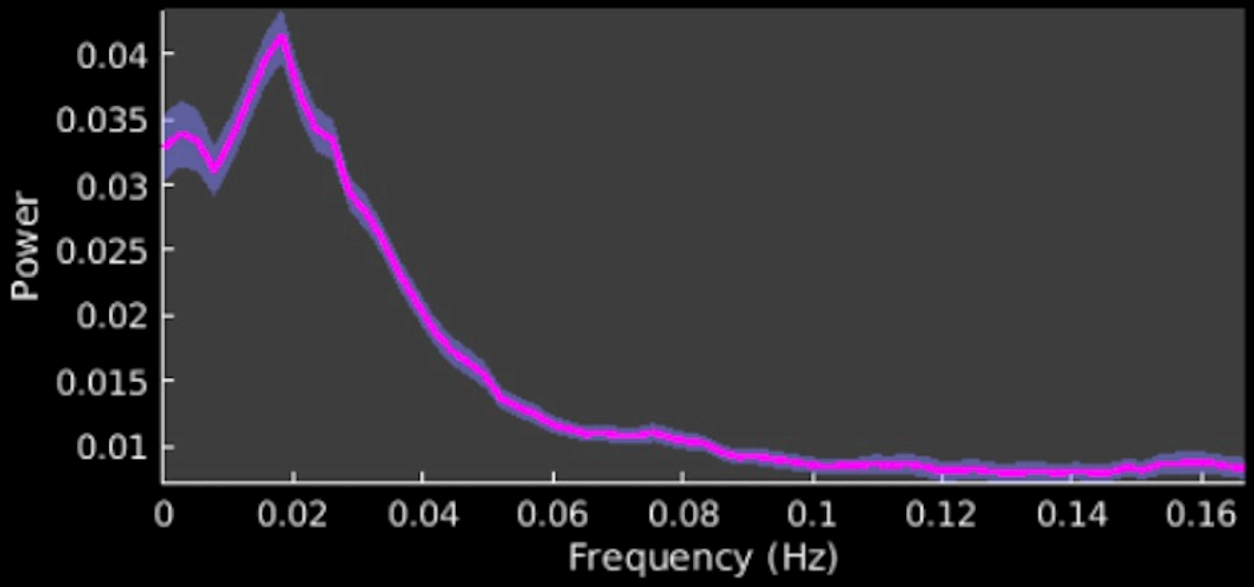
Dynamic range: 0.065, $Power_{LF}/Power_{HF}$: 66.681



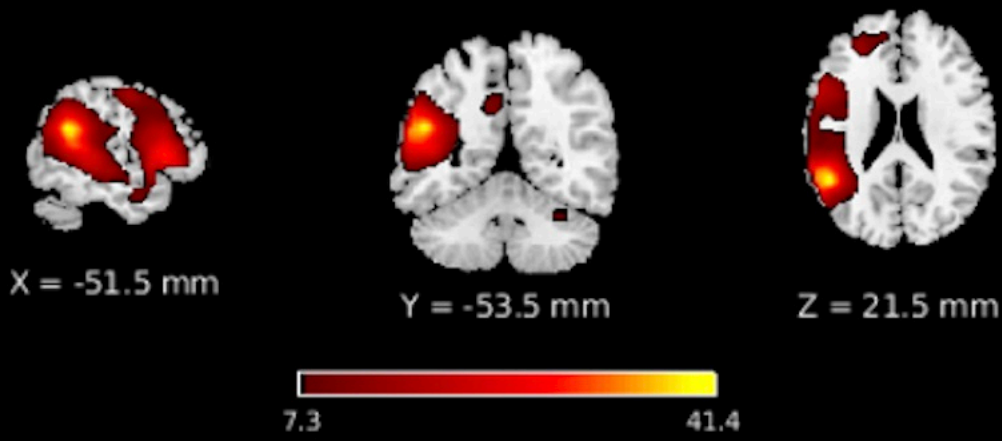
IC 72: Postcentral Gyrus

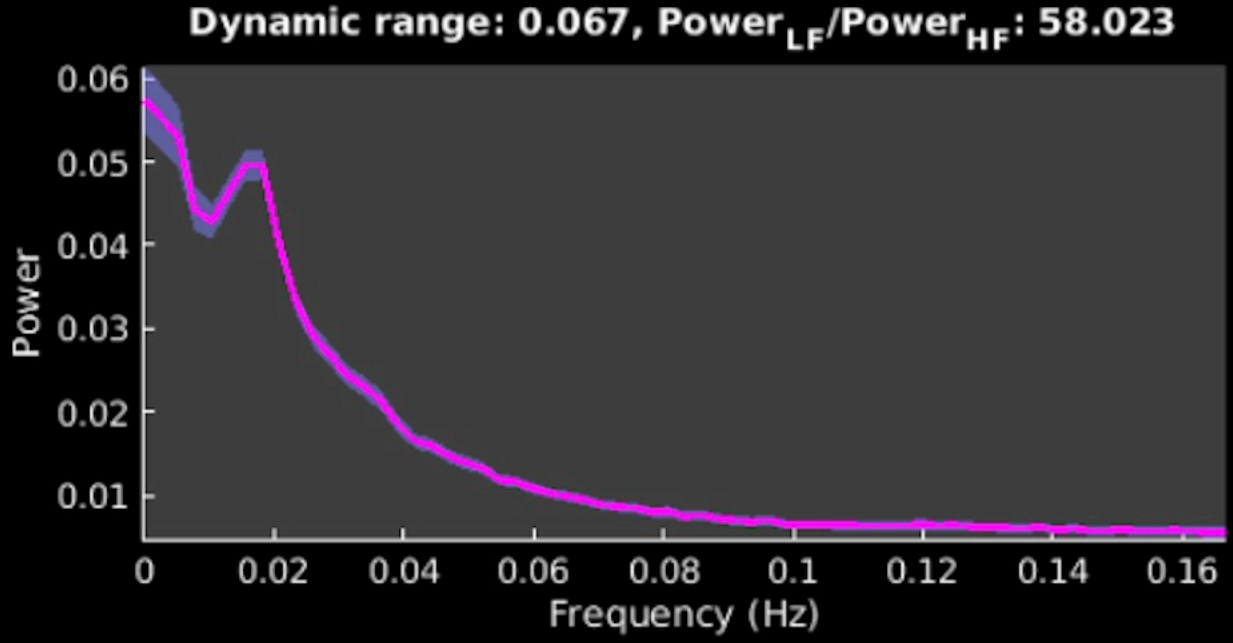


Dynamic range: 0.049, $Power_{LF}/Power_{HF}$: 27.261

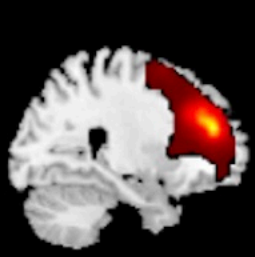


IC 84: Supplementary Motor Area

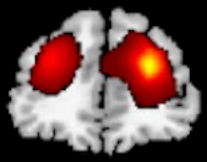




IC 88: Middle Frontal Gyrus



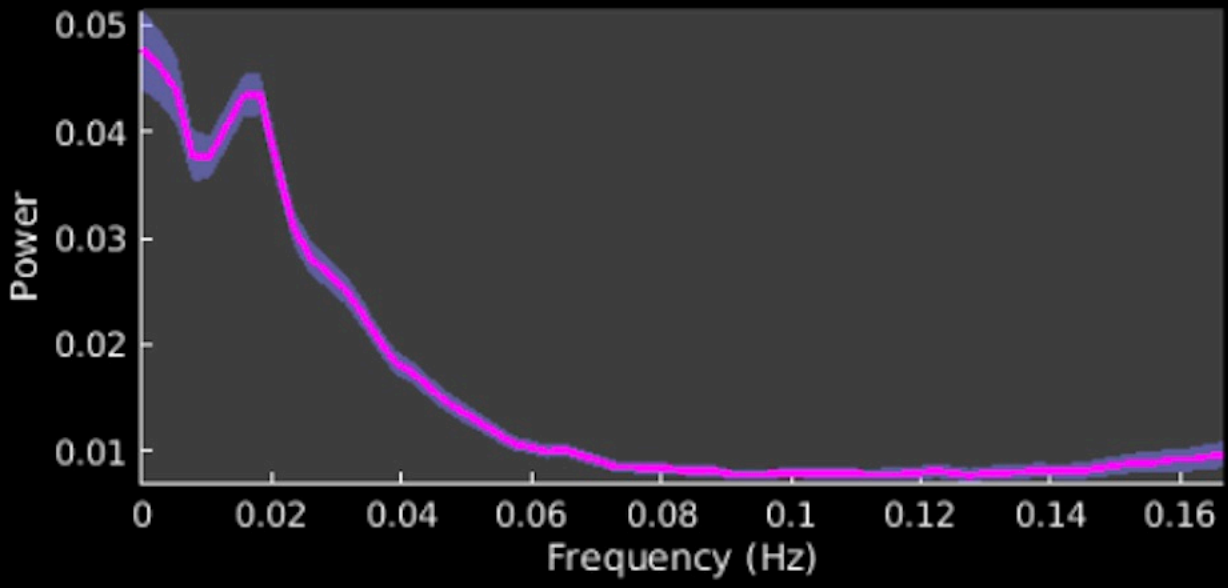
X = 26.5 mm



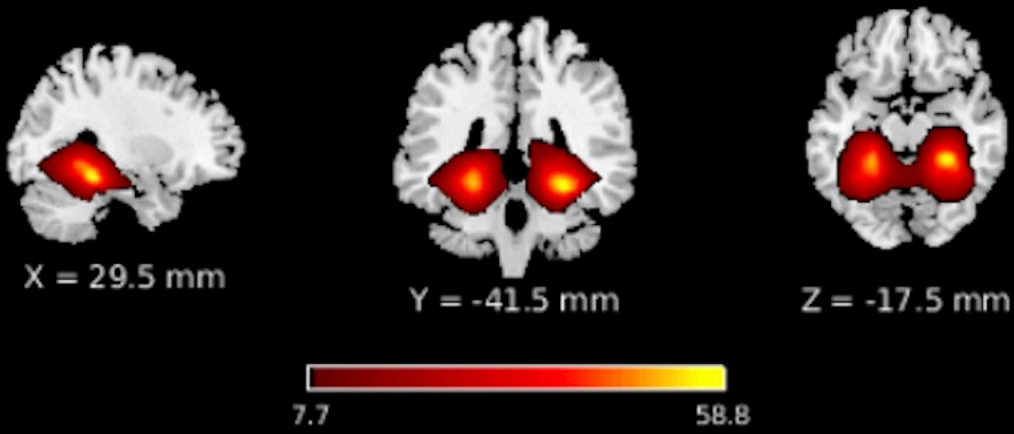
Y = 42.5 mm

Z = 21.5 mm

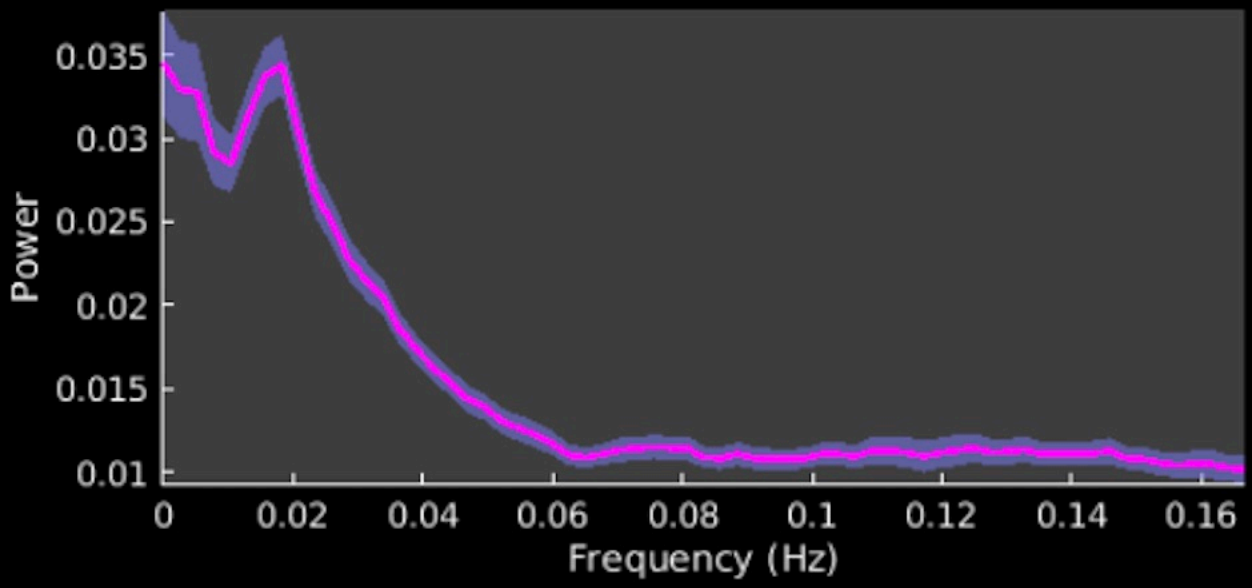
Dynamic range: 0.056, $Power_{LF}/Power_{HF}$: 38.708



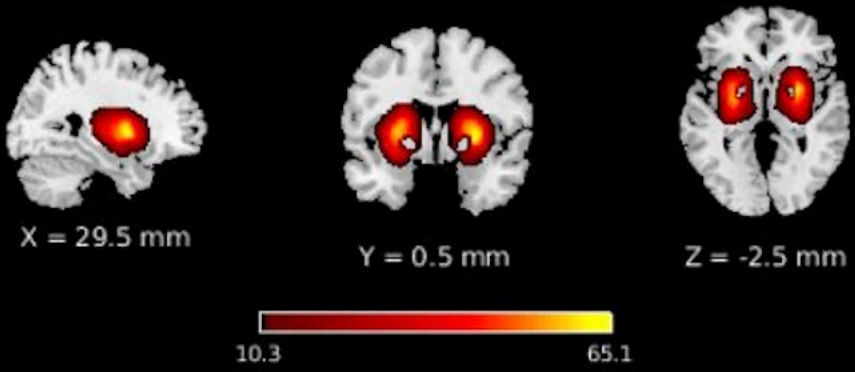
IC 93: Fusiform Gyrus

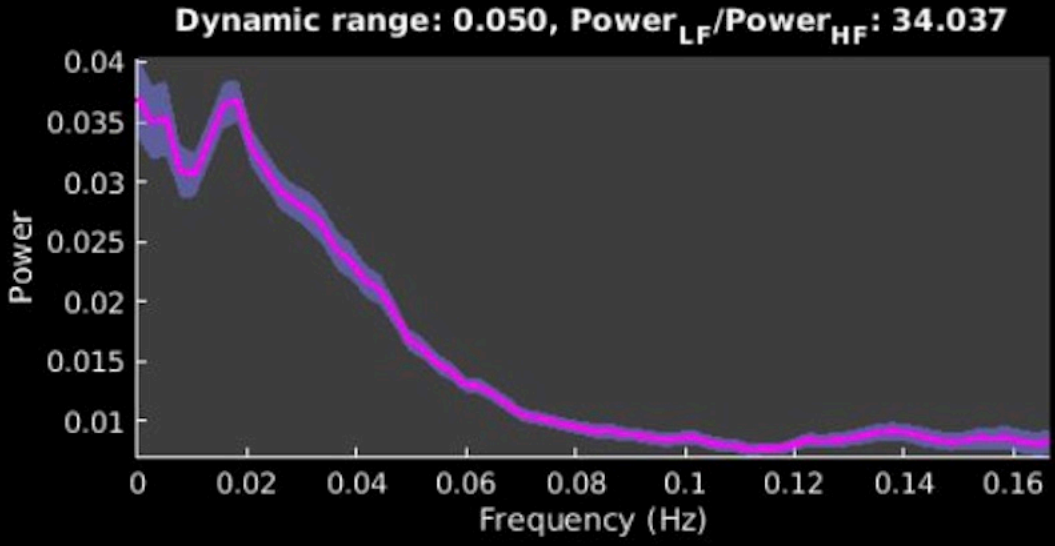


Dynamic range: 0.043, Power$_{LF}$/Power$_{HF}$: 21.391

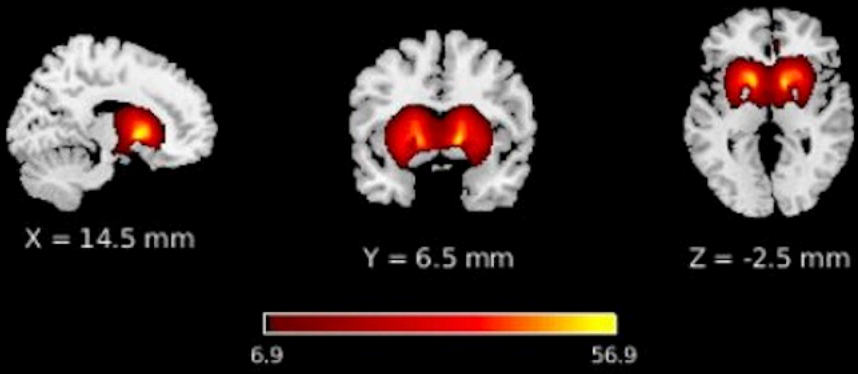


IC 98: Putamen





IC 99: Caudate



Dynamic range: 0.045, $Power_{LF}/Power_{HF}$: 16.899