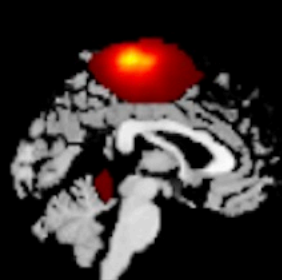
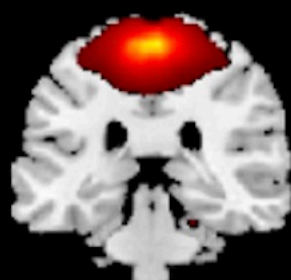


***Supplementary Figure 3-30: Spatial Maps of all 27 selected NeuroMark Independent Components.*** The following supplementary figures include spatial maps, high resolution standardized heat maps that are produced from fMRI scans. Each figure corresponds to one of the 27 selected NeuroMark ICs. Each 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.

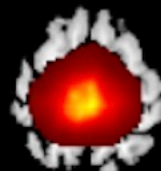
## *IC 2: Paracentral Lobule*



X = 2.5 mm



Y = -32.5 mm



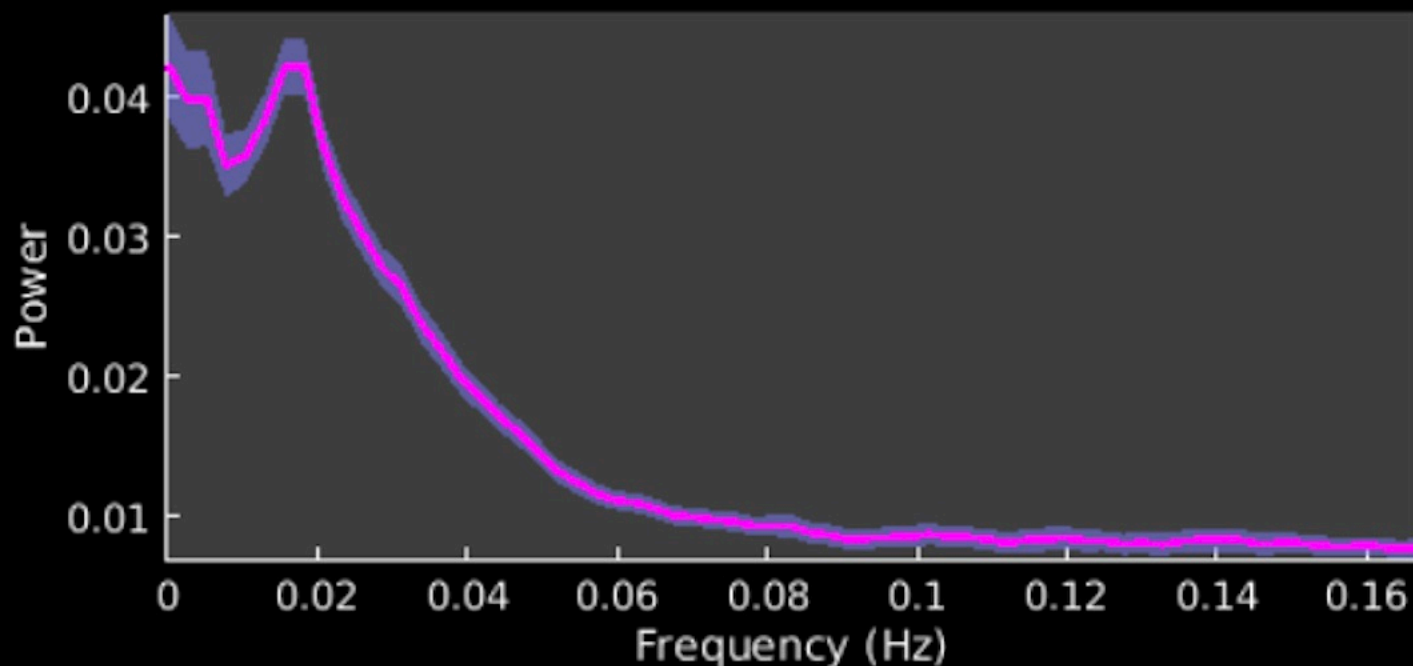
Z = 66.5 mm



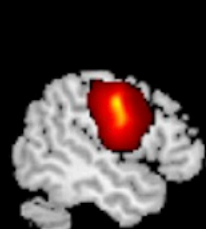
5.5

74.7

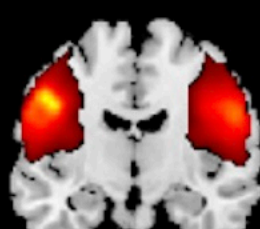
**Dynamic range: 0.055, Power<sub>LF</sub>/Power<sub>HF</sub>: 33.340**



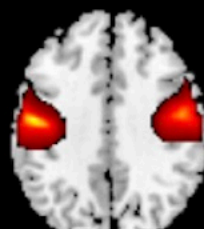
## *IC 3: Postcentral Gyrus*



X = -51.5 mm



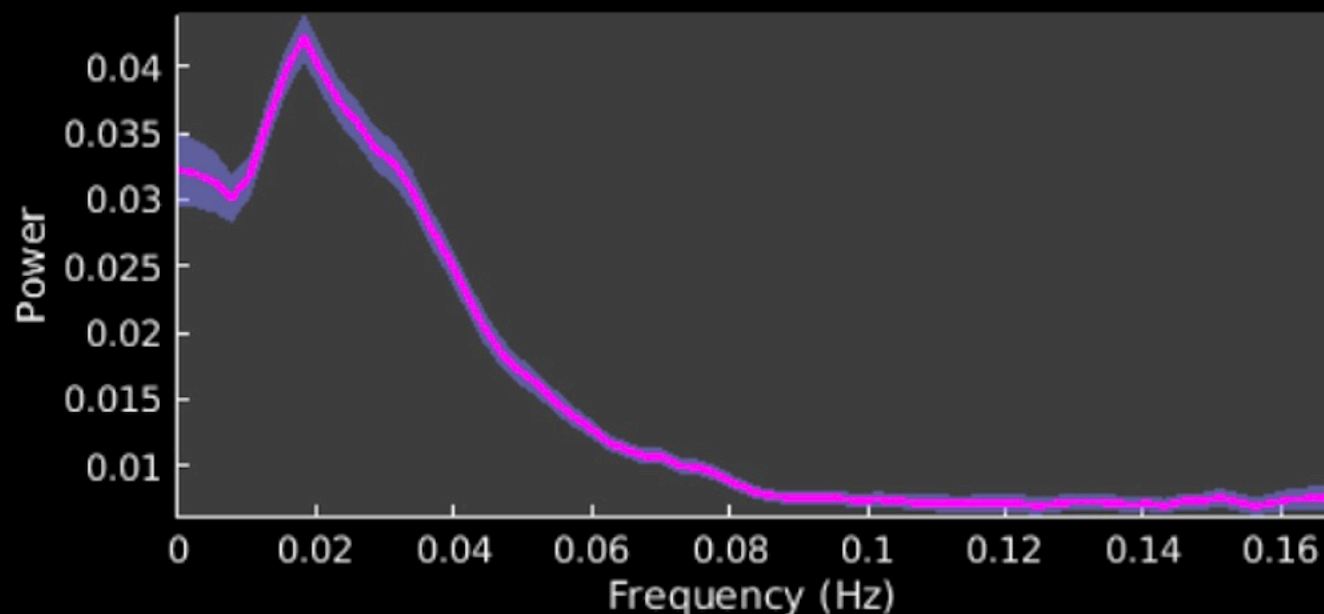
Y = -11.5 mm



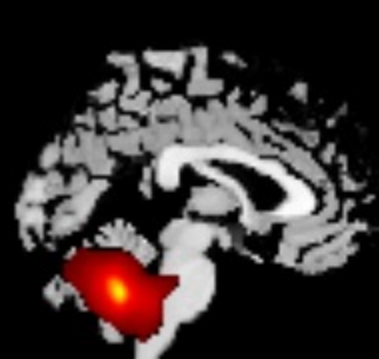
Z = 36.5 mm



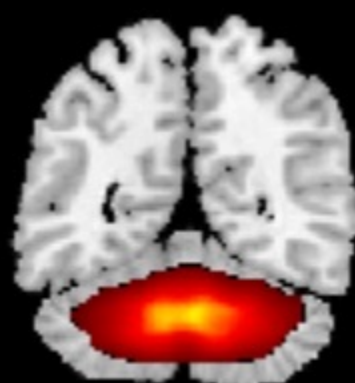
**Dynamic range: 0.050, Power<sub>LF</sub>/Power<sub>HF</sub>: 39.423**



# *IC 4: Cerebellum*



X = 2.5 mm



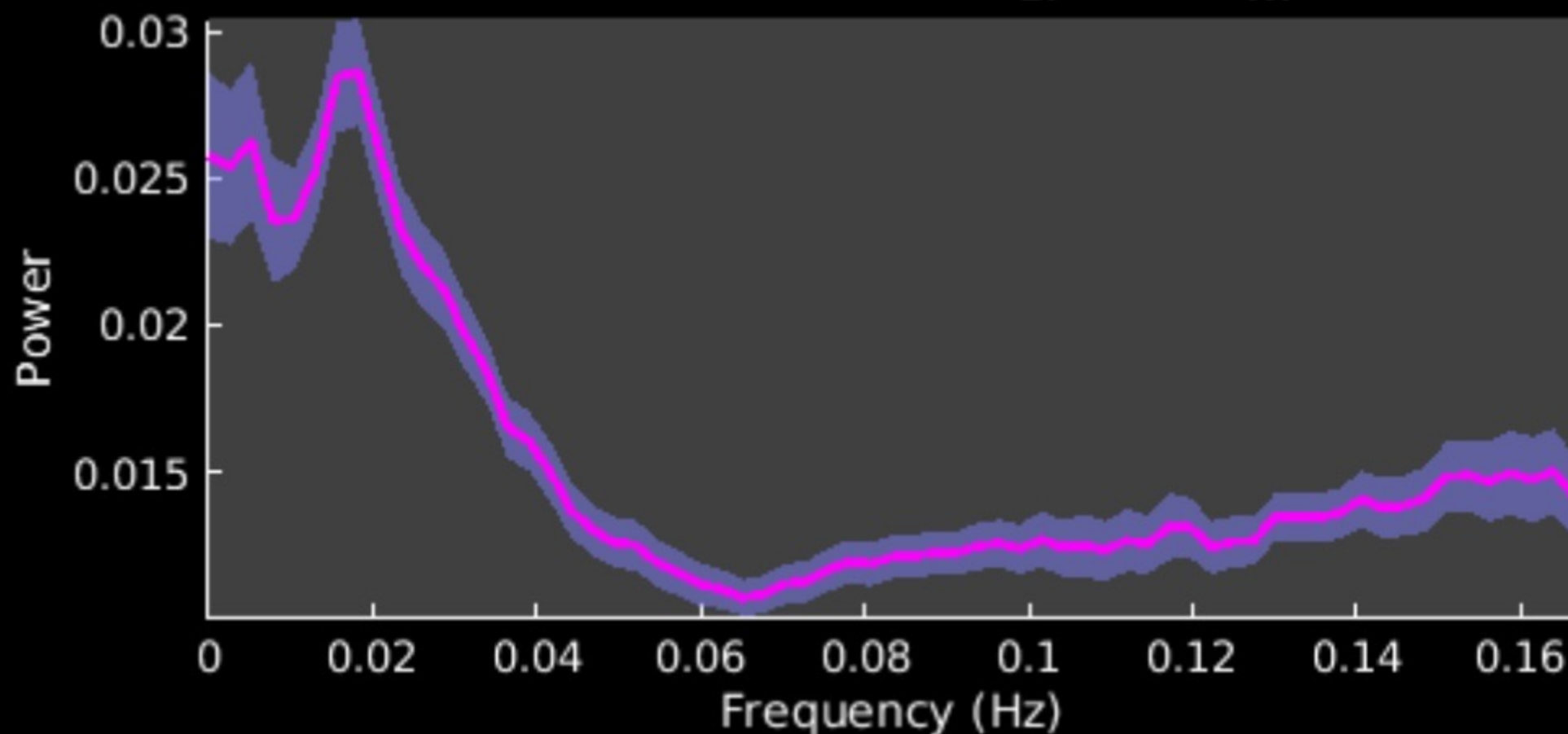
Y = -56.5 mm



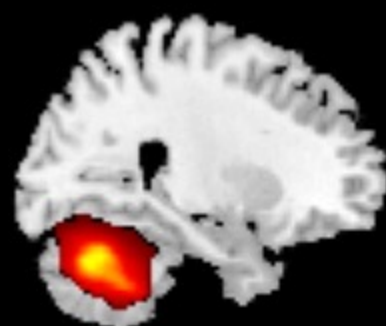
Z = -41.5 mm



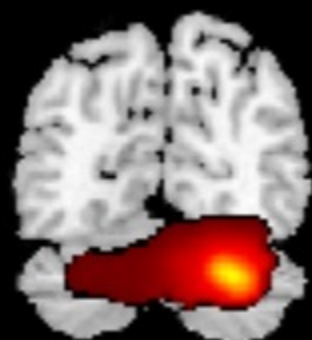
**Dynamic range: 0.037,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 16.415**



# *IC 7: Cerebellum*



X = 26.5 mm



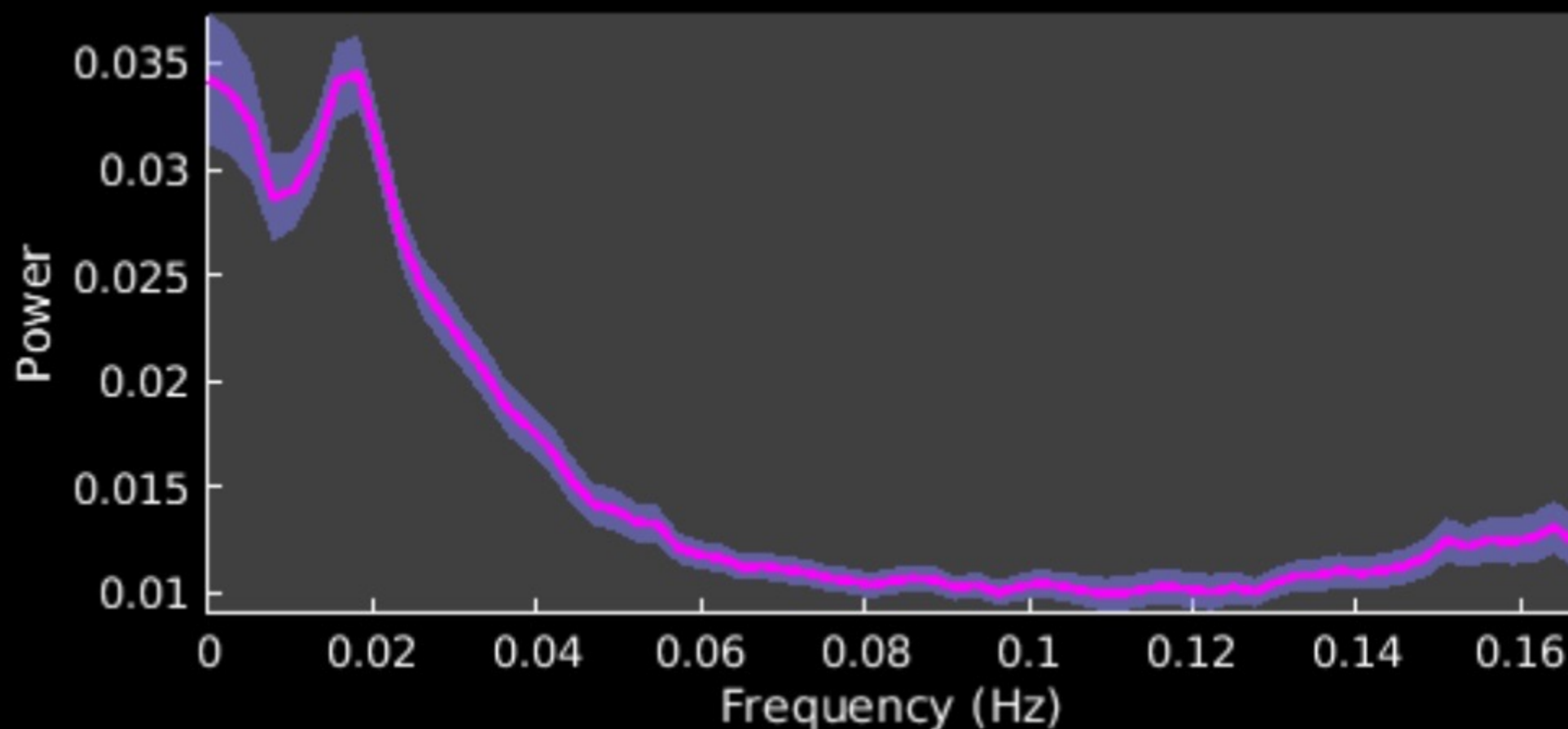
Y = -71.5 mm



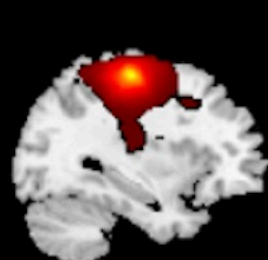
Z = -35.5 mm



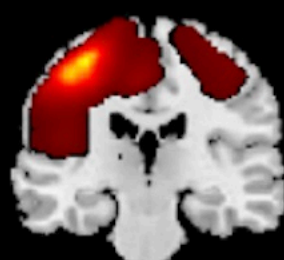
**Dynamic range: 0.042,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 20.743**



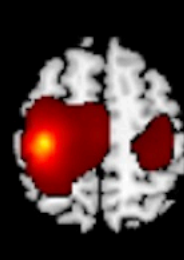
# *IC 9: Left Postcentral Gyrus*



X = -33.5 mm



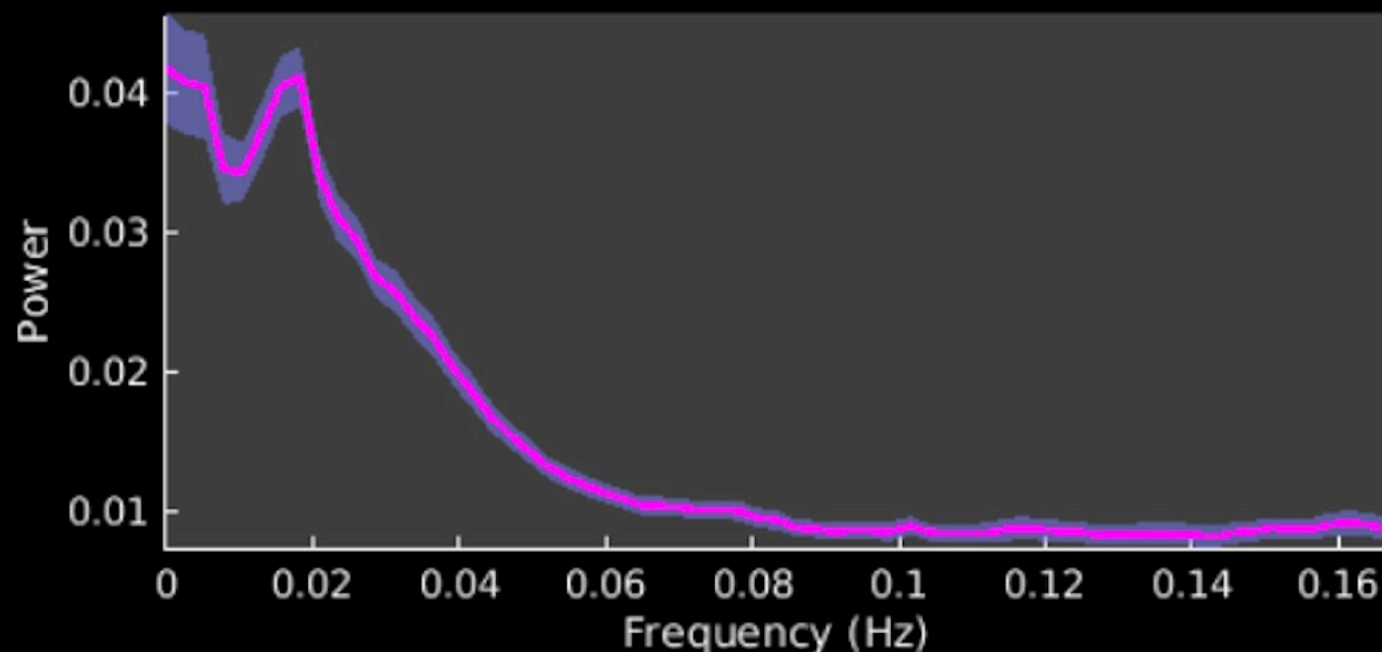
Y = -23.5 mm



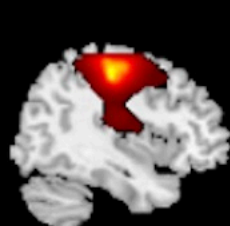
Z = 57.5 mm



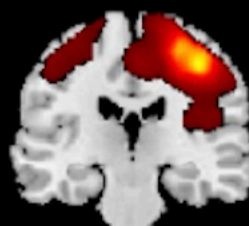
**Dynamic range: 0.054,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 41.172**



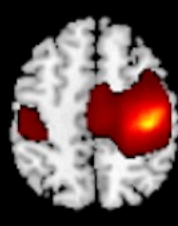
# *IC 11: Right Postcentral Gyrus*



X = 41.5 mm



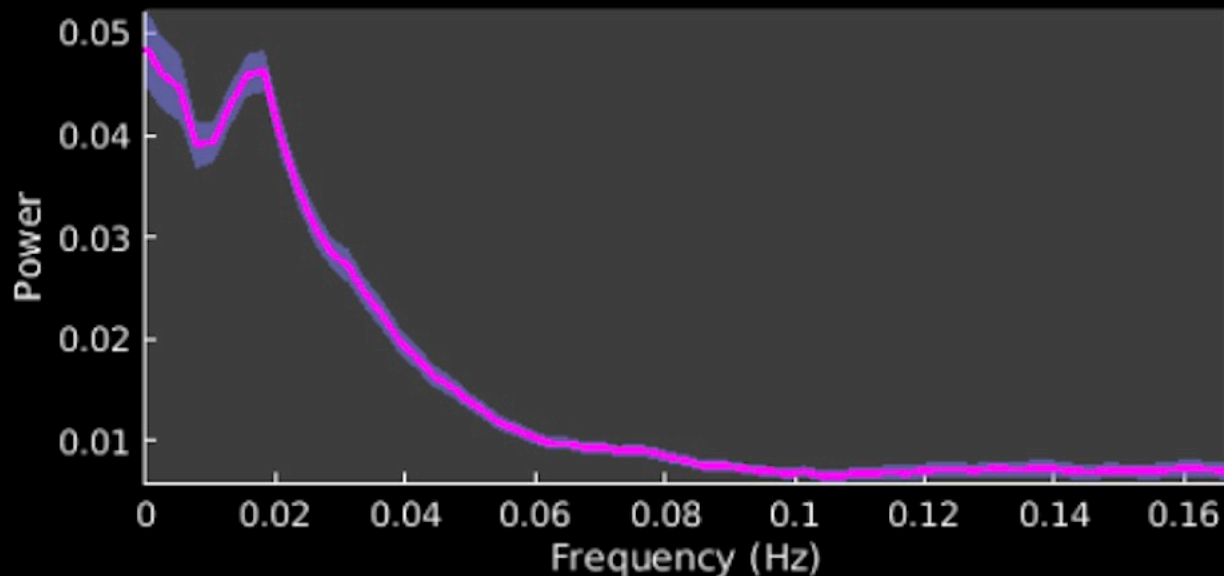
Y = -23.5 mm



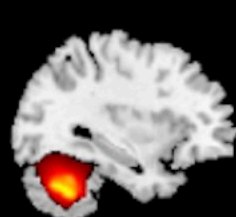
Z = 48.5 mm



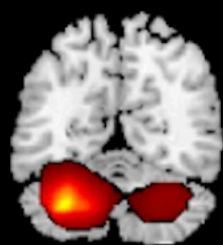
**Dynamic range: 0.060,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 43.050**



## *IC 13: Cerebellum*



X = -33.5 mm



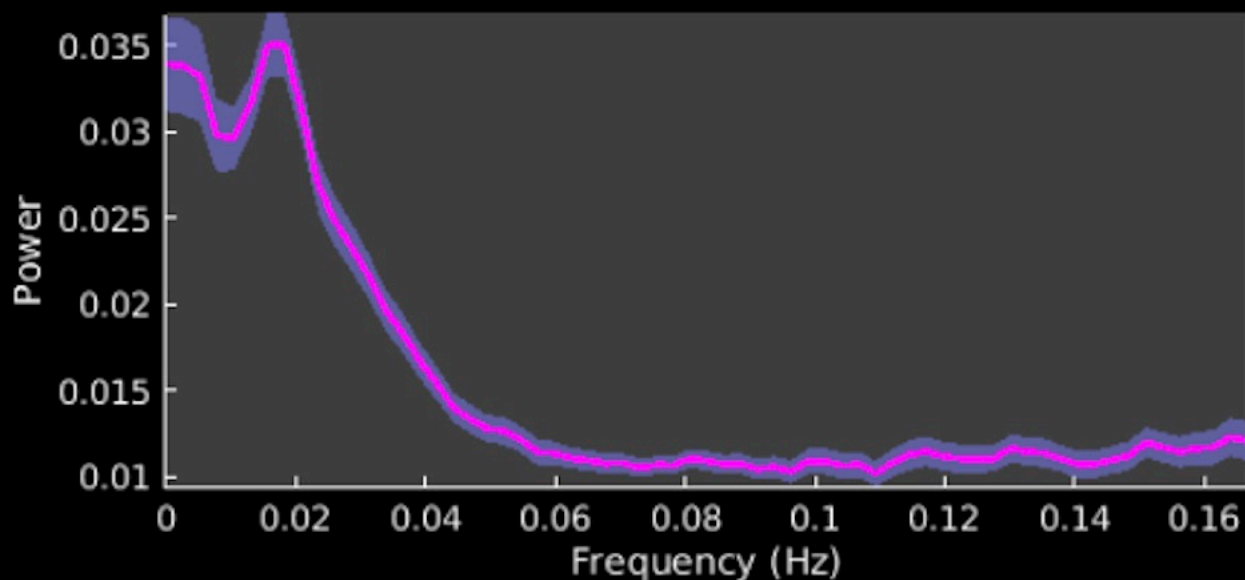
Y = -62.5 mm



Z = -44.5 mm

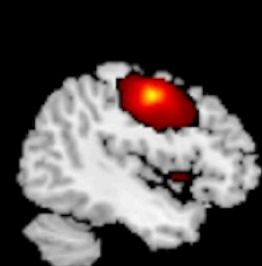


Dynamic range: 0.043,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 19.016

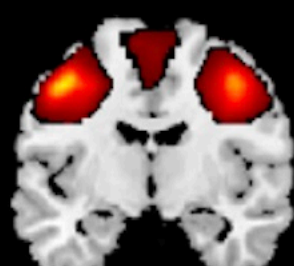




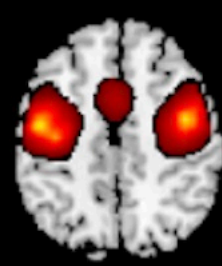
## *IC 14: Precentral Gyrus*



X = -45.5 mm



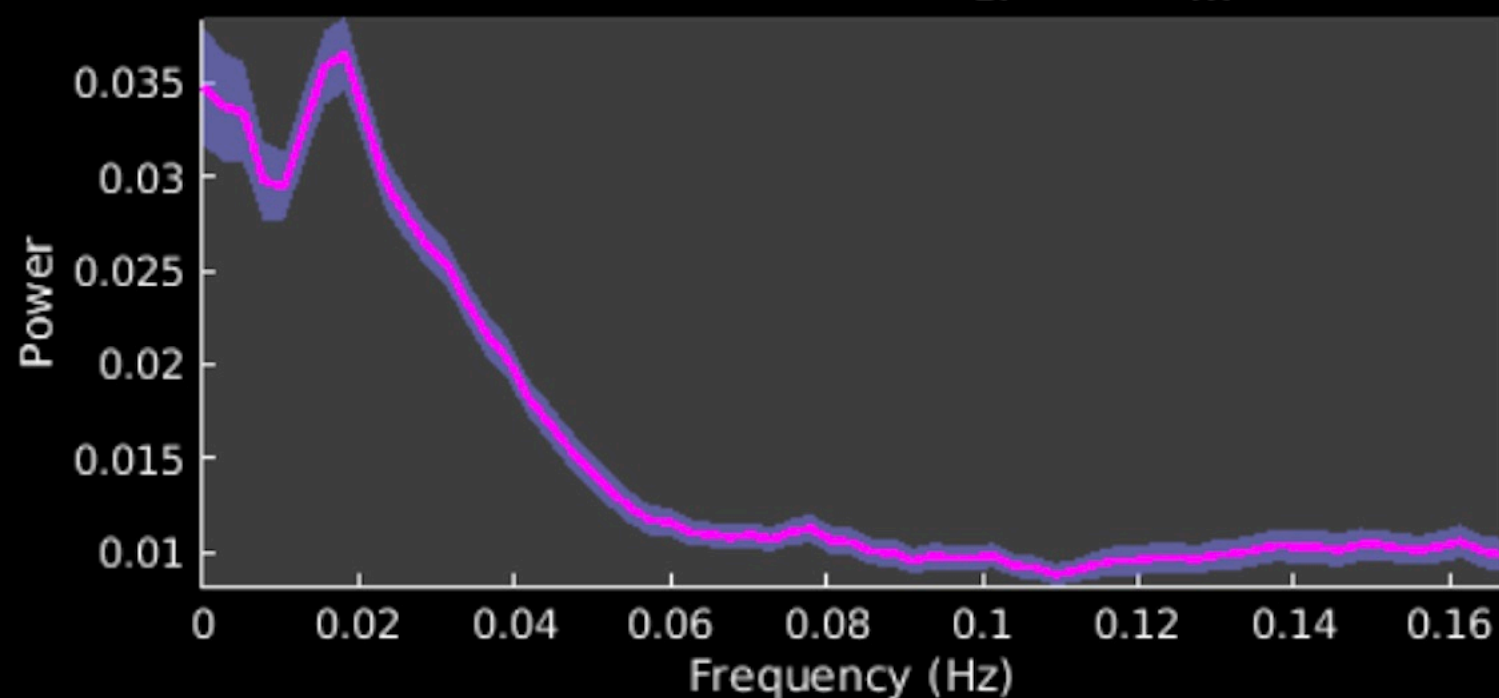
Y = -8.5 mm



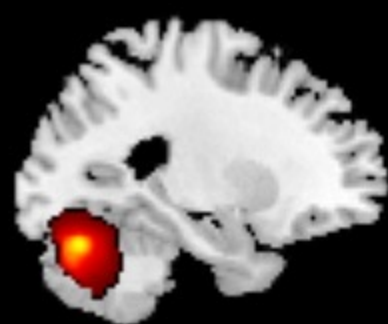
Z = 45.5 mm



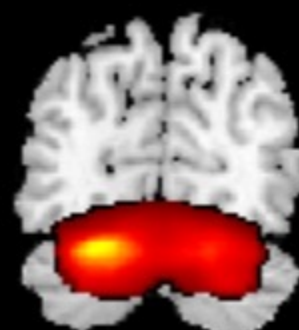
**Dynamic range: 0.046,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 24.615**



# *IC 18: Cerebellum*



X = -24.5 mm



Y = -74.5 mm



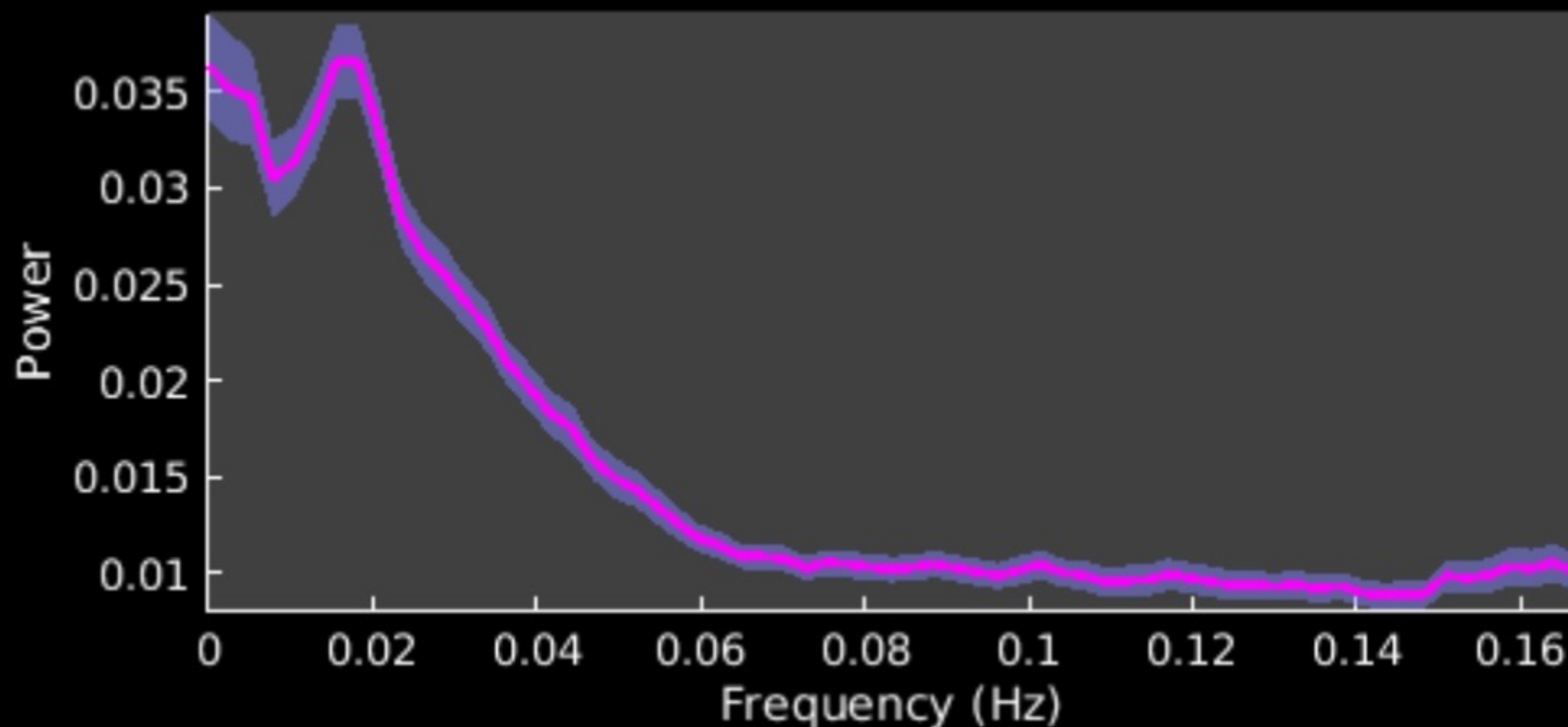
Z = -29.5 mm



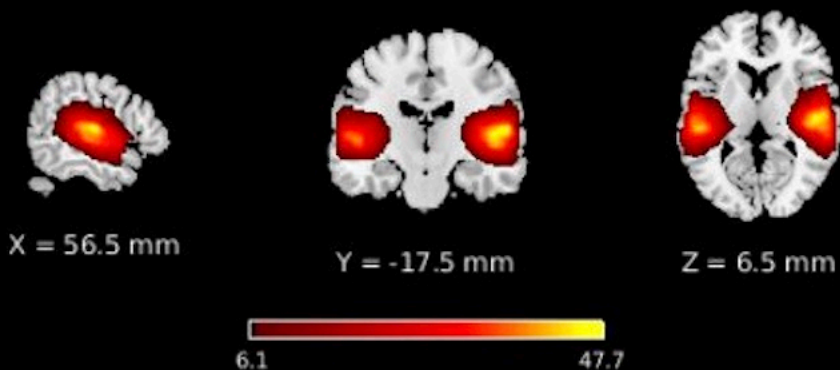
8.2

53.6

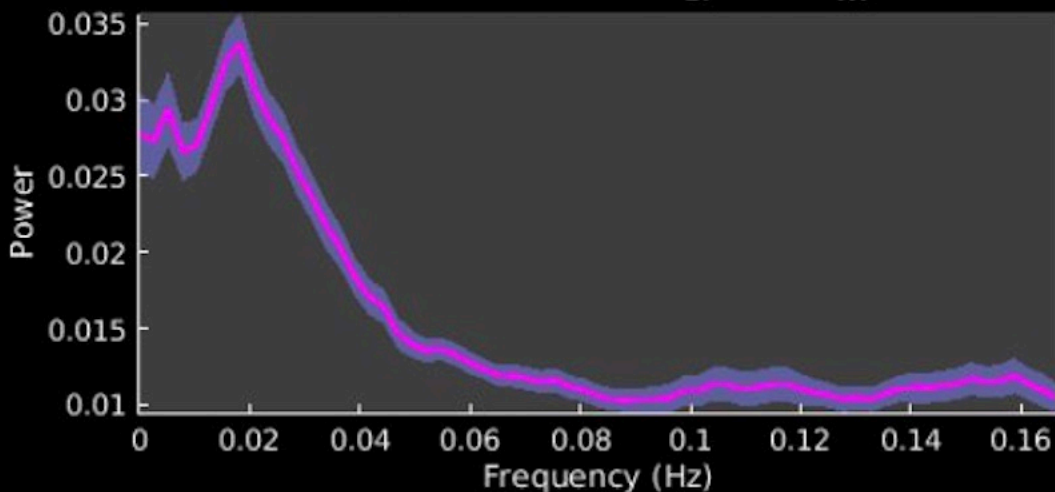
**Dynamic range: 0.045,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 33.745**



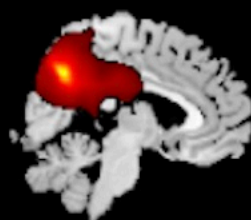
# *IC 21: Superior Temporal Gyrus*



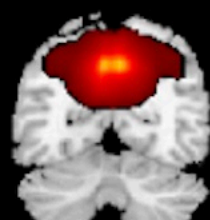
**Dynamic range: 0.043,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 23.416**



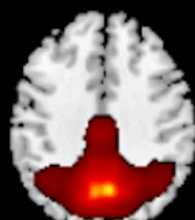
## *IC 32: Precuneus*



X = 5.5 mm



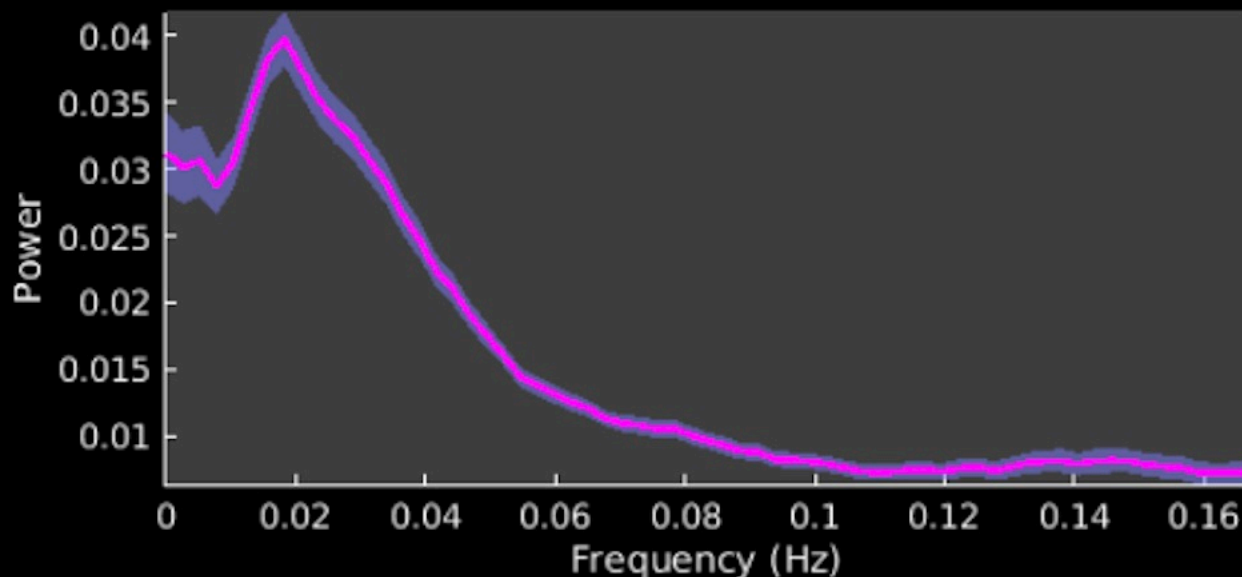
Y = -68.5 mm



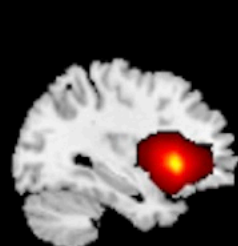
Z = 36.5 mm



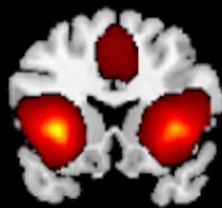
Dynamic range: 0.047,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 54.868



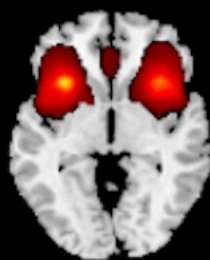
# *IC 33: Insula*



X = -33.5 mm



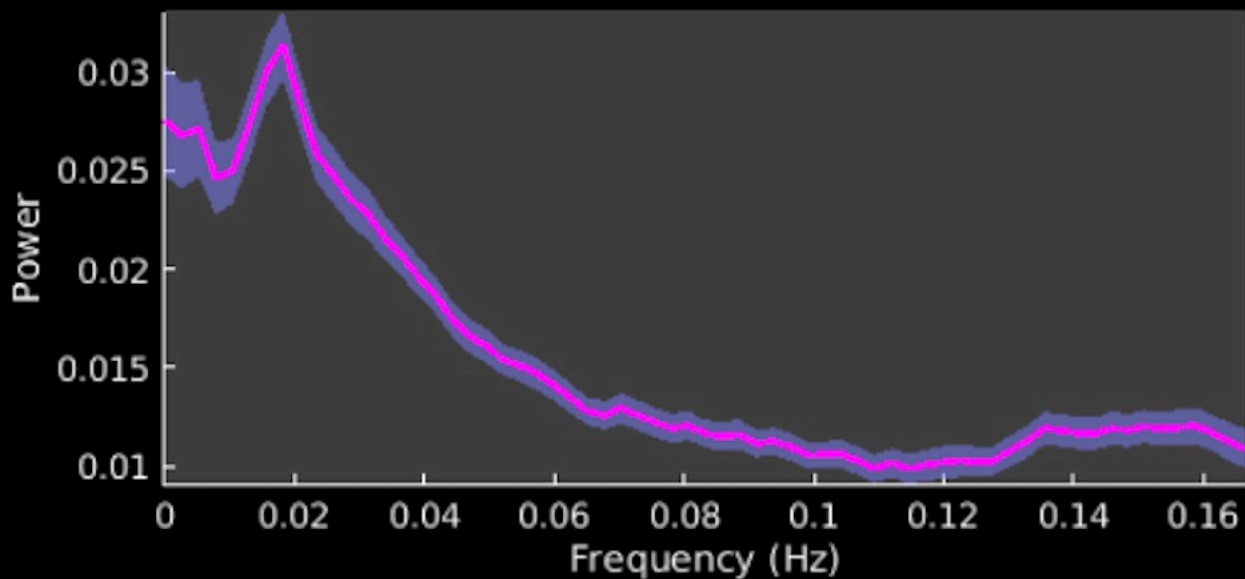
Y = 18.5 mm



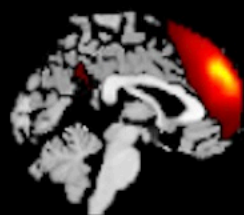
Z = -5.5 mm



Dynamic range: 0.038,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 20.833



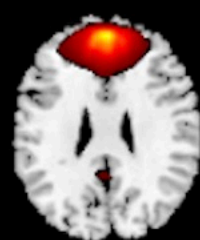
# *IC 43: Superior Medial Frontal Gyrus*



X = 2.5 mm



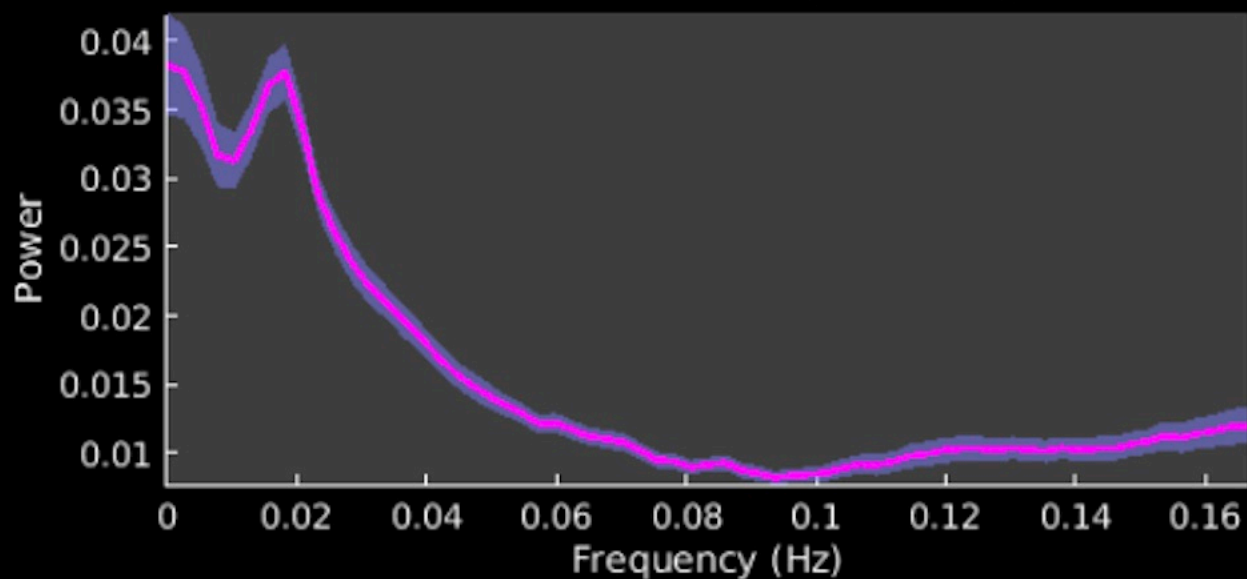
Y = 51.5 mm



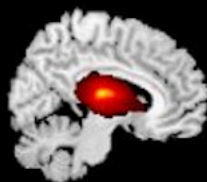
Z = 27.5 mm



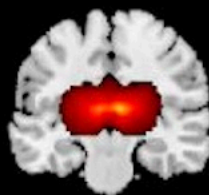
**Dynamic range: 0.048,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 34.288**



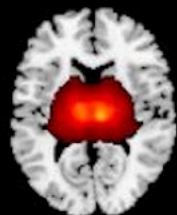
# *IC 45: Thalamus*



X = 8.5 mm



Y = -20.5 mm



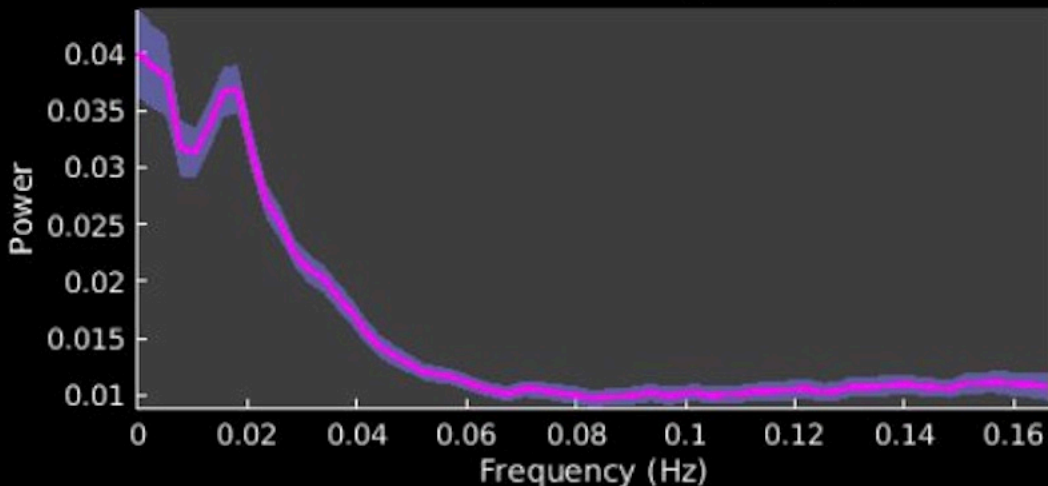
Z = 9.5 mm



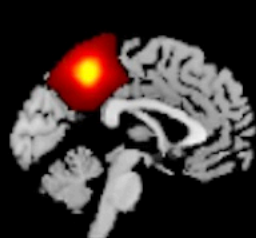
7.7

70.8

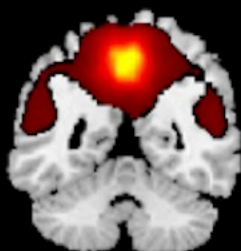
**Dynamic range: 0.049,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 26.108**



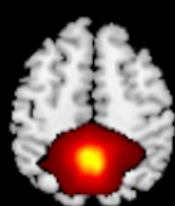
# *IC 51: Precuneus*



X = -0.5 mm



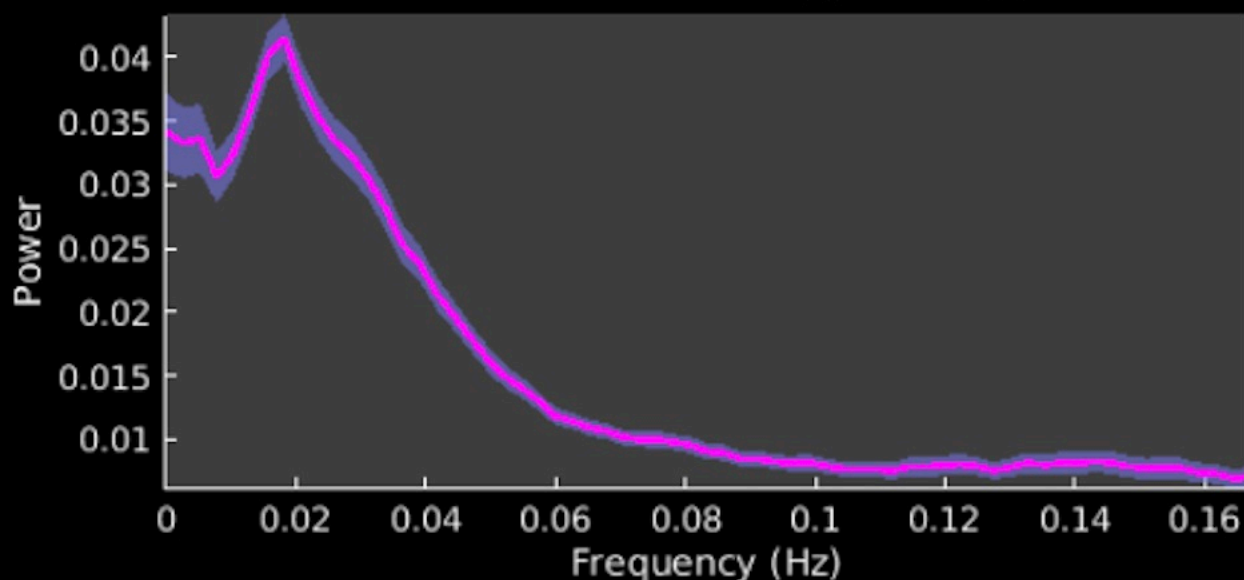
Y = -50.5 mm



Z = 51.5 mm

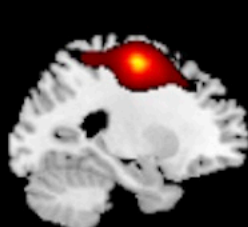


Dynamic range: 0.049,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 52.201

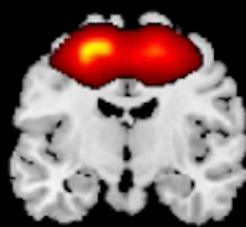




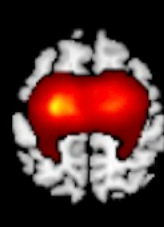
# *IC 54: Paracentral Lobule*



X = -24.5 mm



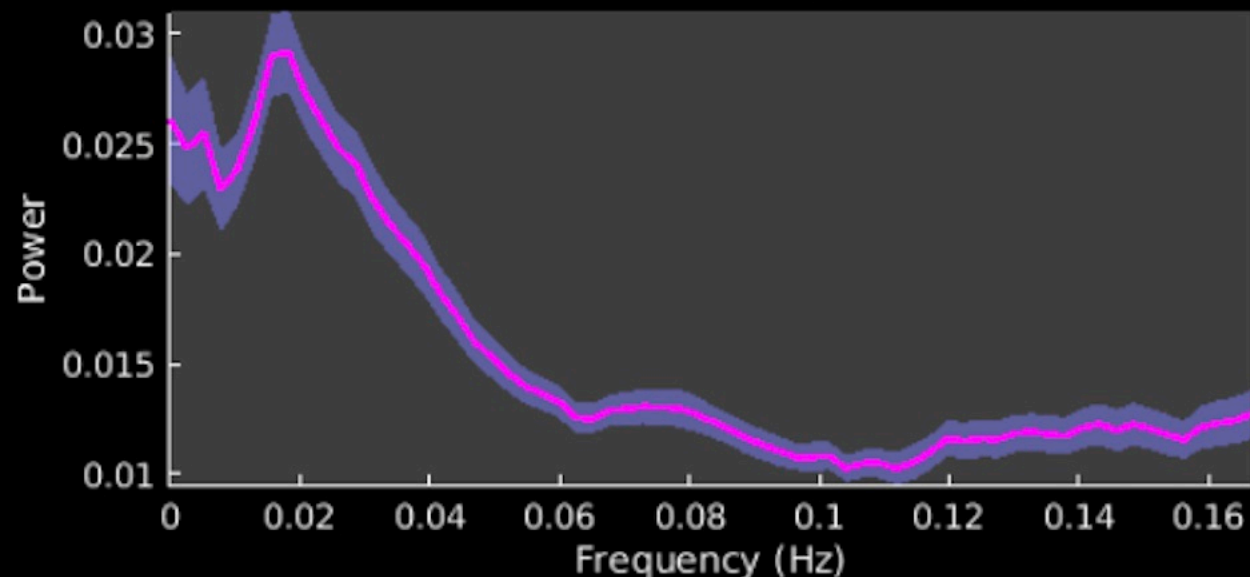
Y = -11.5 mm



Z = 57.5 mm



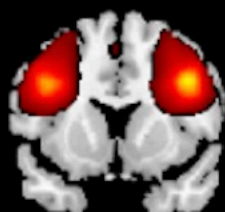
**Dynamic range: 0.039,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 16.187**



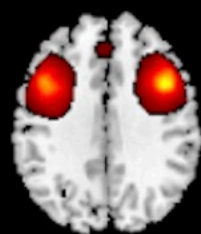
# *IC 55: Middle Frontal Gyrus*



X = 44.5 mm



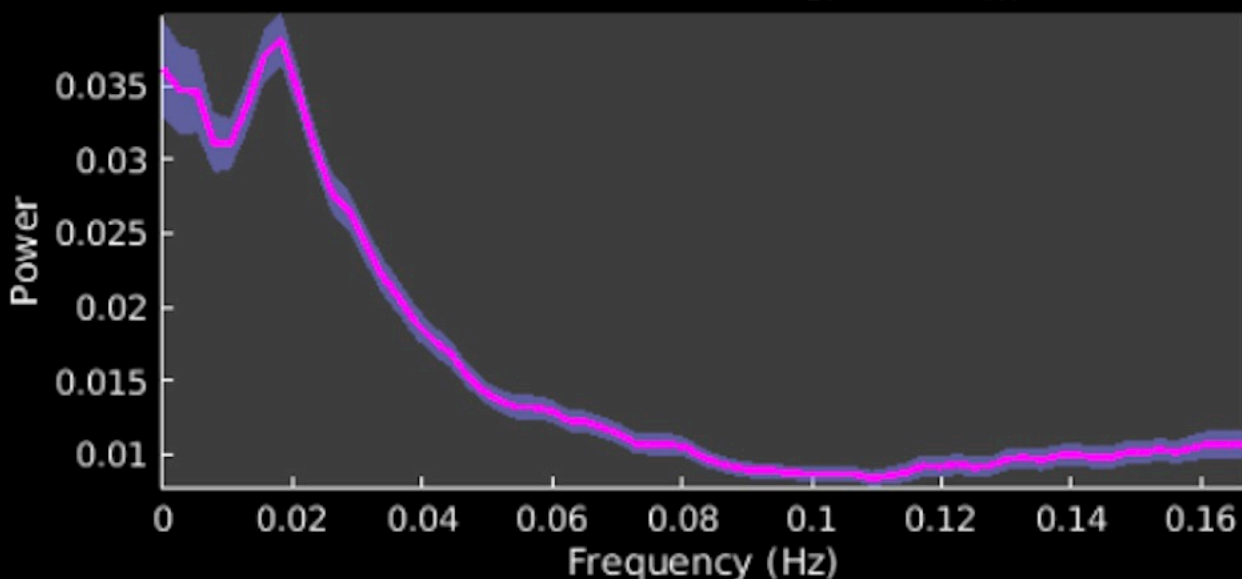
Y = 12.5 mm



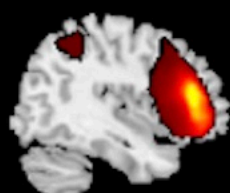
Z = 33.5 mm



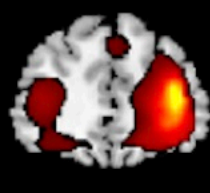
**Dynamic range: 0.046,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 25.464**



# IC 67: *Inferior Frontal Gyrus*



X = 41.5 mm



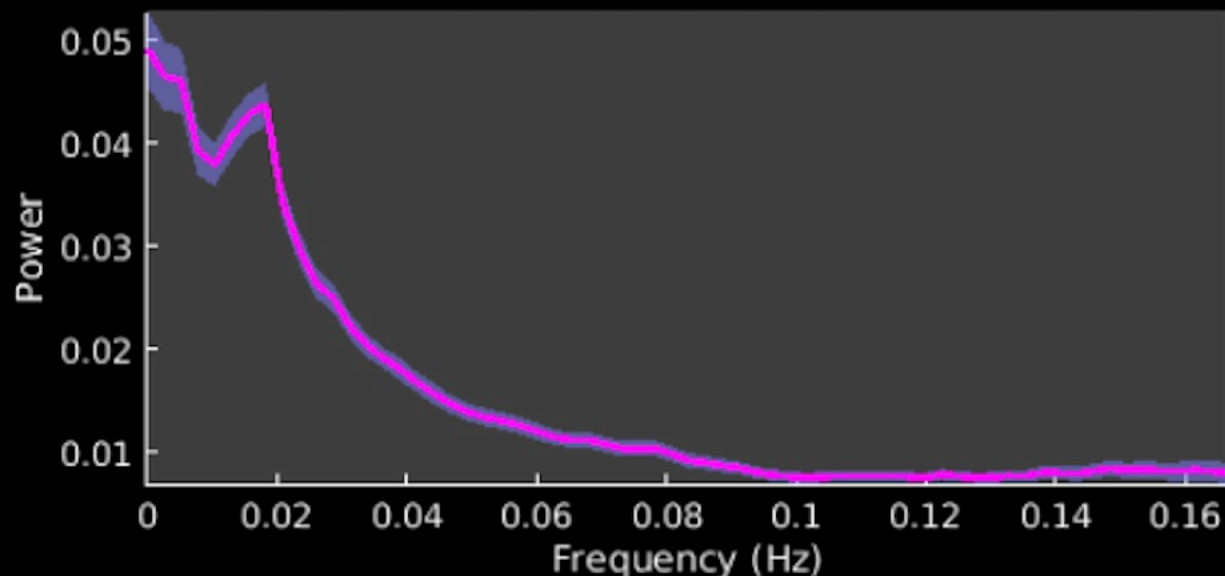
Y = 36.5 mm



Z = 6.5 mm



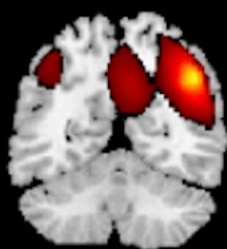
Dynamic range: 0.055,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 43.921



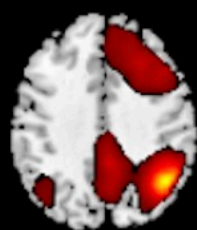
# *IC 68: Inferior Parietal Lobule*



X = 47.5 mm



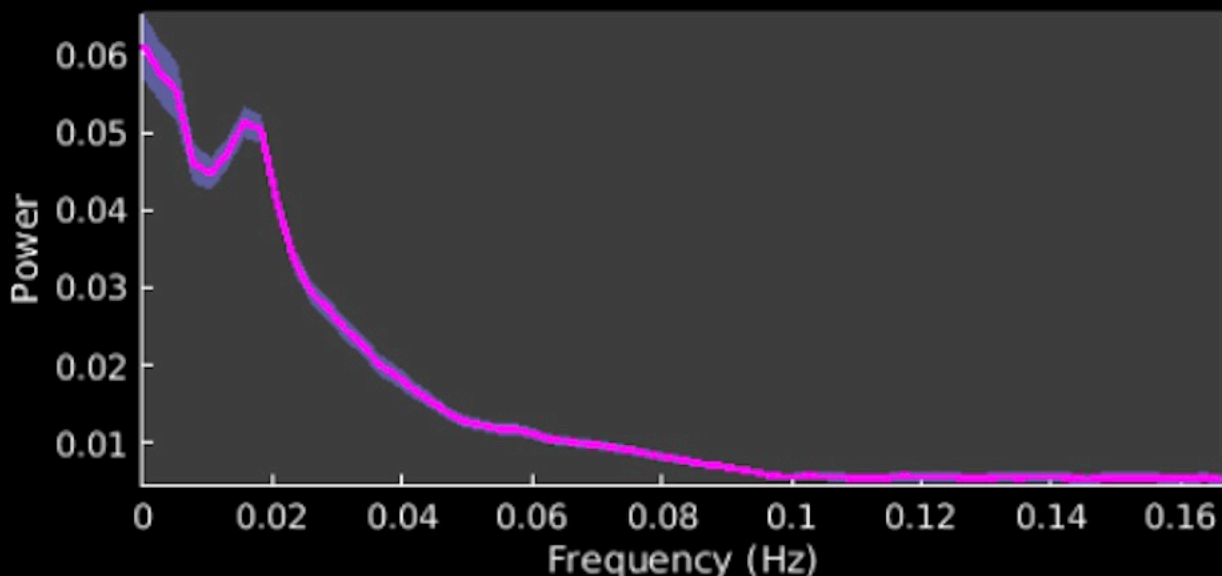
Y = -59.5 mm



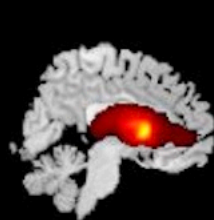
Z = 36.5 mm



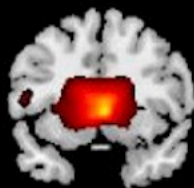
Dynamic range: 0.070,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 75.169



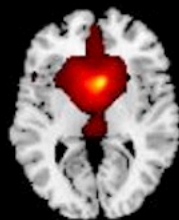
# *IC 69: Caudate*



X = 5.5 mm



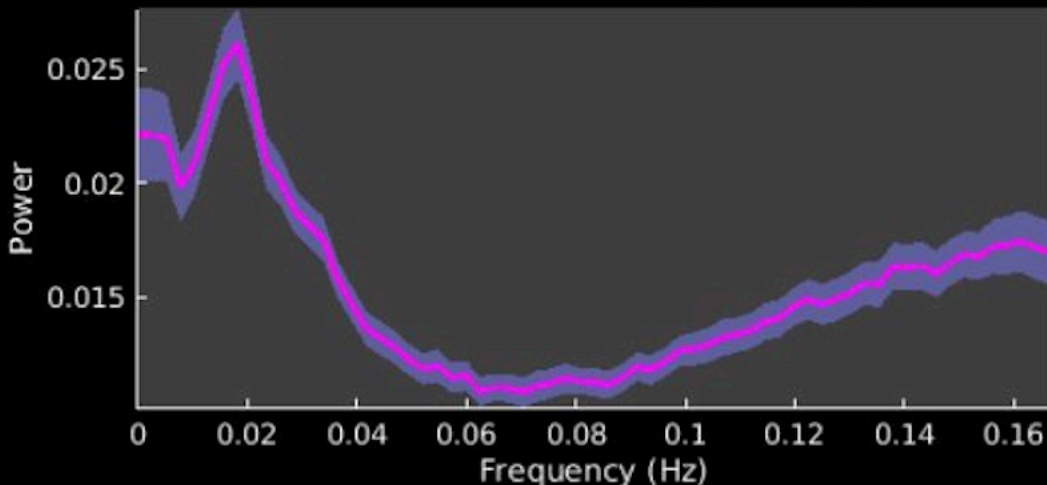
Y = 9.5 mm



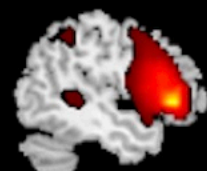
Z = 3.5 mm



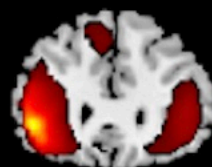
Dynamic range: 0.029,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 9.848



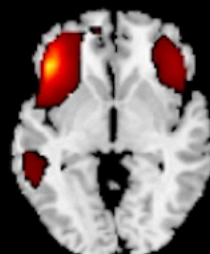
# *IC 70: Inferior Frontal Gyrus*



X = -48.5 mm



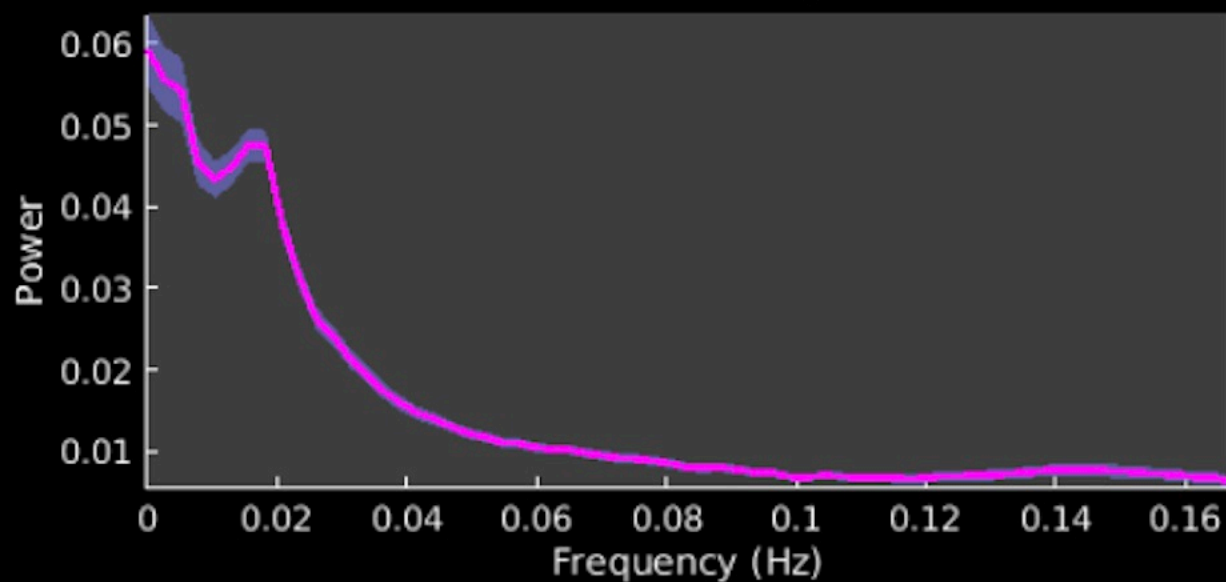
Y = 30.5 mm



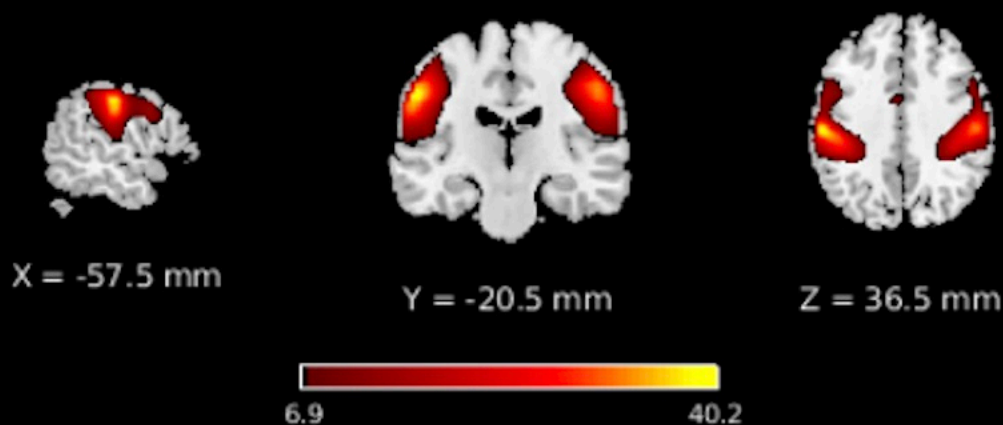
Z = -5.5 mm



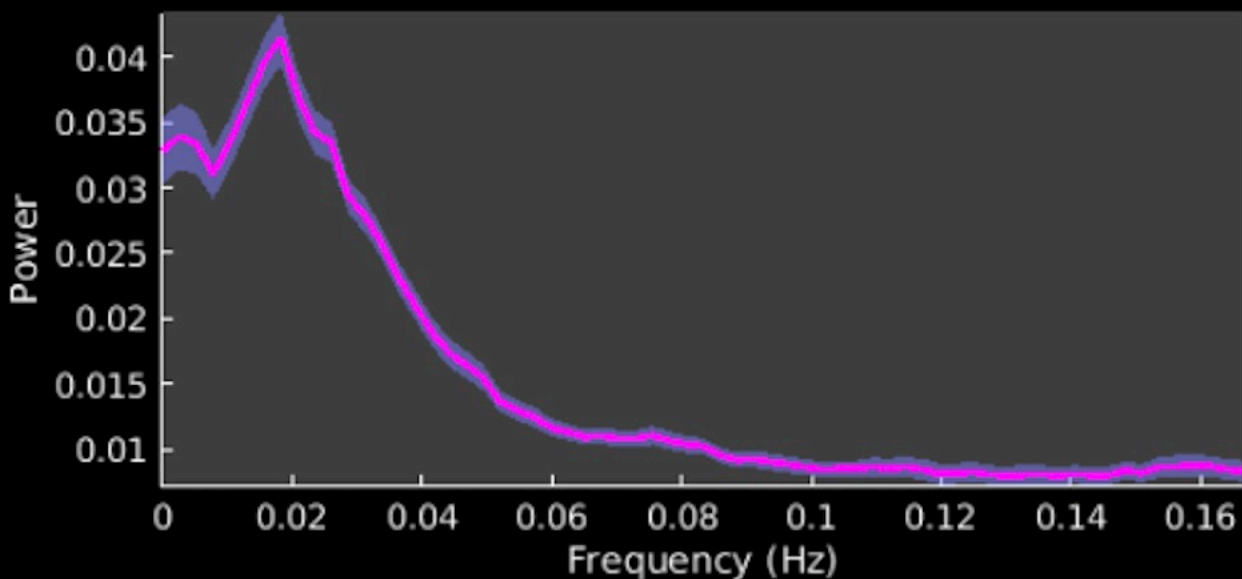
**Dynamic range: 0.065,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 66.681**



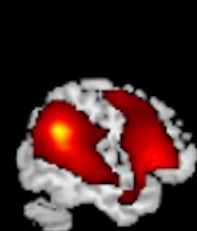
# IC 72: Postcentral Gyrus



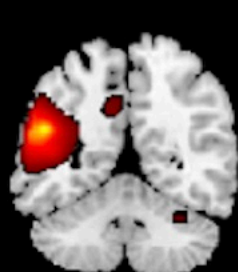
Dynamic range: 0.049,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 27.261



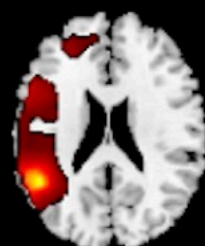
# *IC 84: Supplementary Motor Area*



X = -51.5 mm



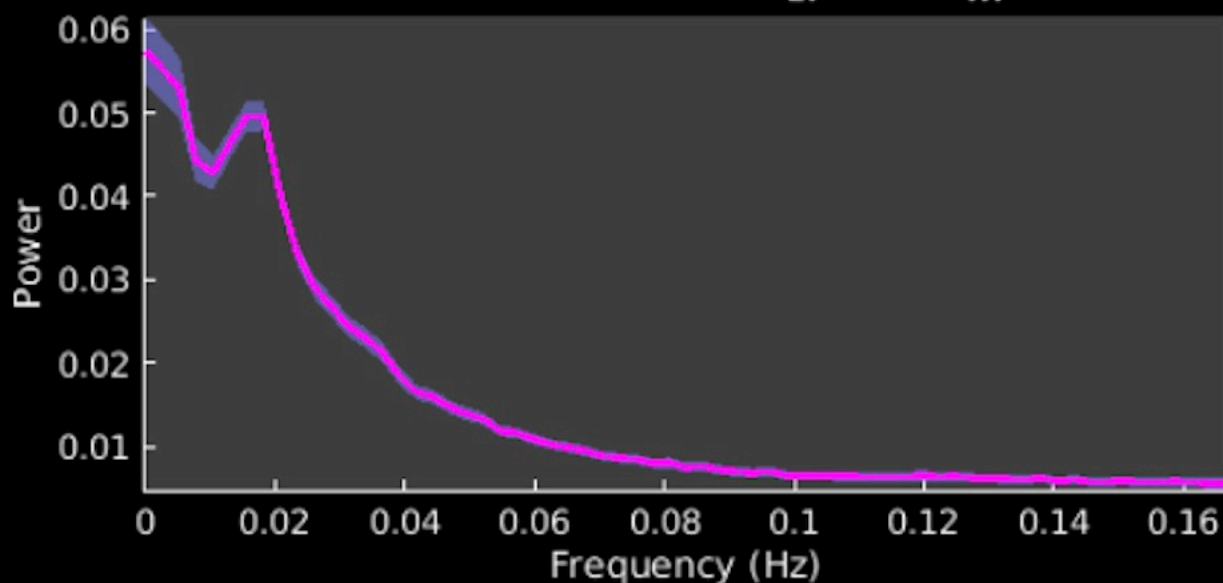
Y = -53.5 mm



Z = 21.5 mm

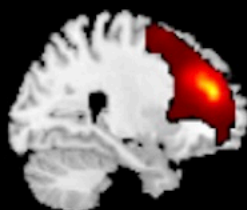


**Dynamic range: 0.067,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 58.023**

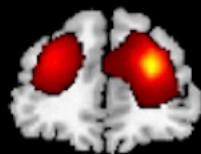




# *IC 88: Middle Frontal Gyrus*



X = 26.5 mm



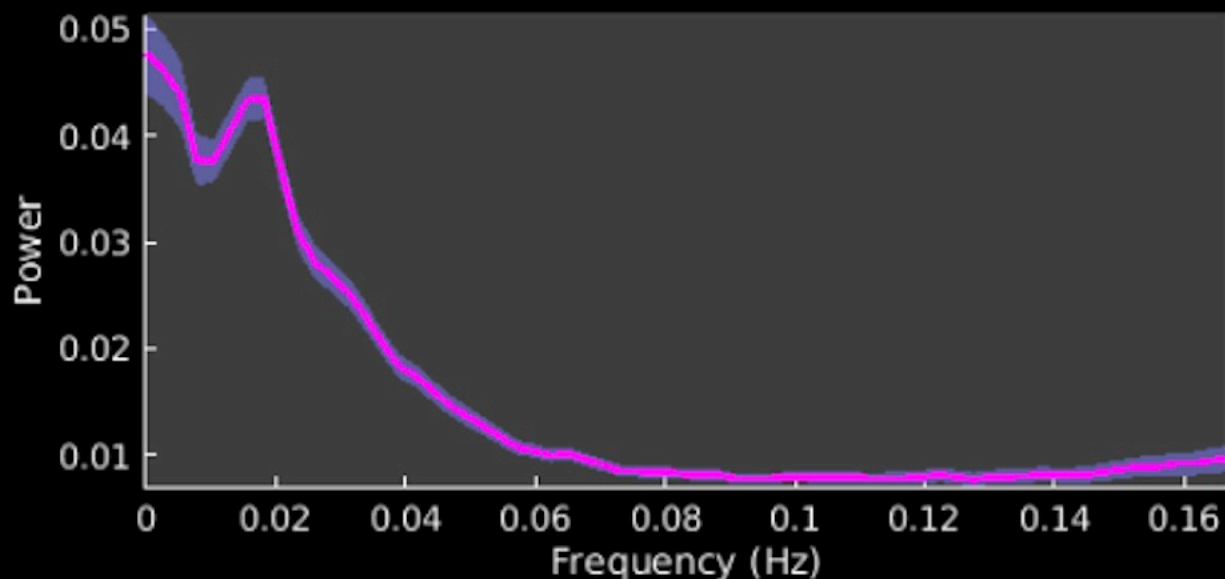
Y = 42.5 mm



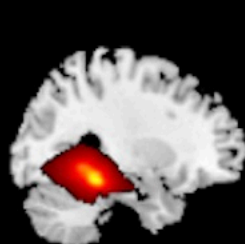
Z = 21.5 mm



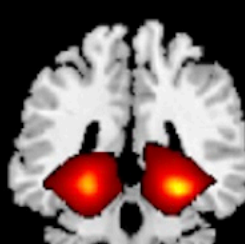
**Dynamic range: 0.056, Power<sub>LF</sub>/Power<sub>HF</sub>: 38.708**



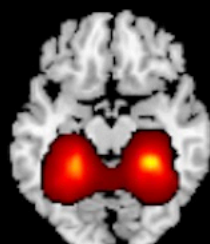
# *IC 93: Fusiform Gyrus*



X = 29.5 mm



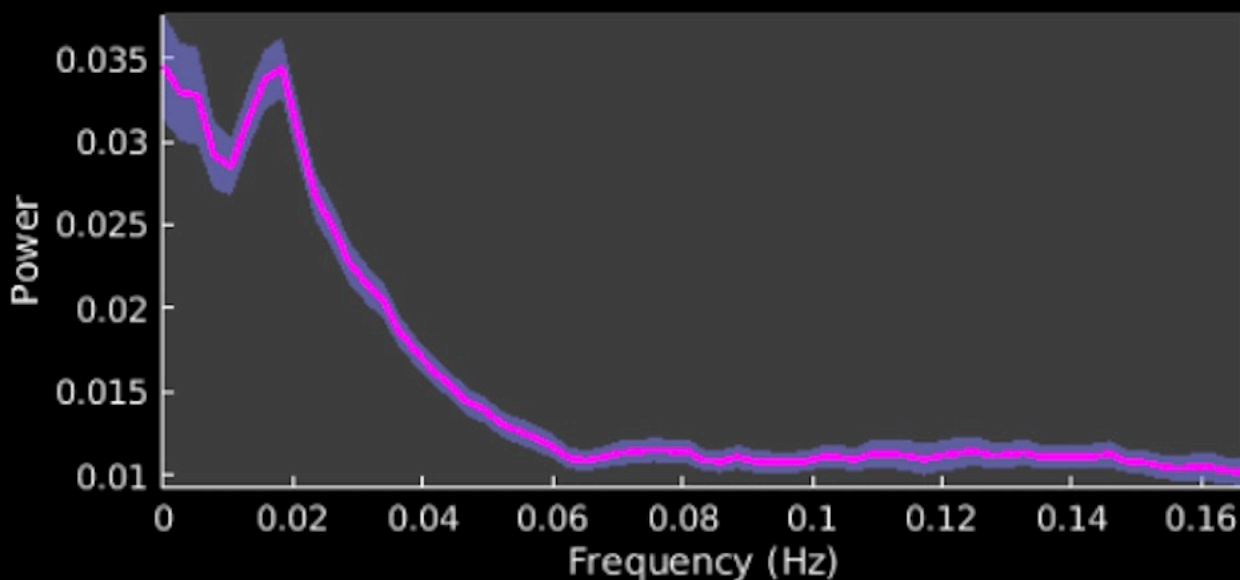
Y = -41.5 mm



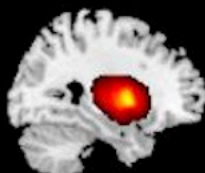
Z = -17.5 mm



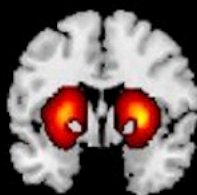
Dynamic range: 0.043,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 21.391



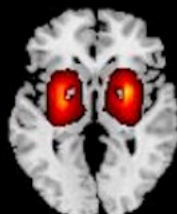
# *IC 98: Putamen*



X = 29.5 mm



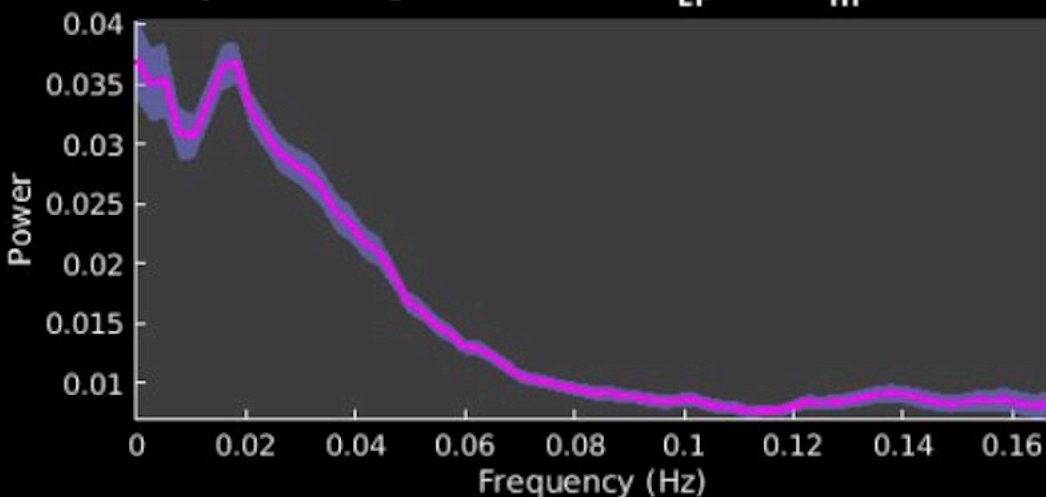
Y = 0.5 mm



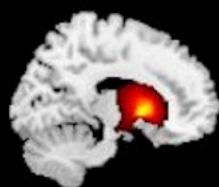
Z = -2.5 mm



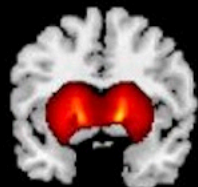
Dynamic range: 0.050,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 34.037



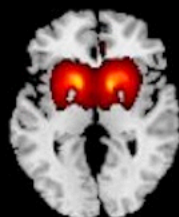
# *IC 99: Caudate*



X = 14.5 mm



Y = 6.5 mm



Z = -2.5 mm



**Dynamic range: 0.045,  $\text{Power}_{\text{LF}}/\text{Power}_{\text{HF}}$ : 16.899**

