

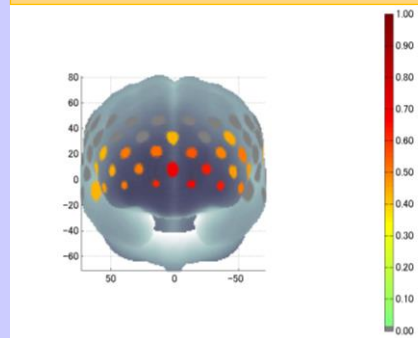
# 精神疾患を視覚化する

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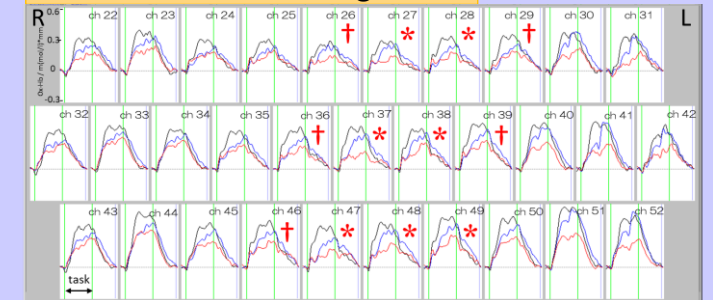
## Research Area

1. 気分障害に関する近赤外線スペクトロスコピーの研究
2. 双極性障害、統合失調症および自殺のバイオマーカーの同定
3. 精神疾患、精神症状の客観的評価に関する研究

NIRS channel locations



Blood flow changes



## Recent Activities

- Reduced left precentral regional responses in patients with major depressive disorder and history of suicide attempts. PLoS One.12(4):e0175249. 2017
- Shirakawa O. Do cultural factors still exert an impact on the suicide rate in Japan? Psychiatry Clin Neurosci. 71(1):1. 2017
- Relationship between prefrontal hemodynamic responses and quality of life differs between melancholia and non-melancholic depression. Psychiatry Res. 253:26–35. 2016