

レプチンなどは報酬系とホメオスタシス系を働かせる。

赤、抑制入力；

緑、興奮性入力；

黄、ドーパミンニューロン（抑制入力と興奮性入力）。

## 前脳へのドーパミン投射

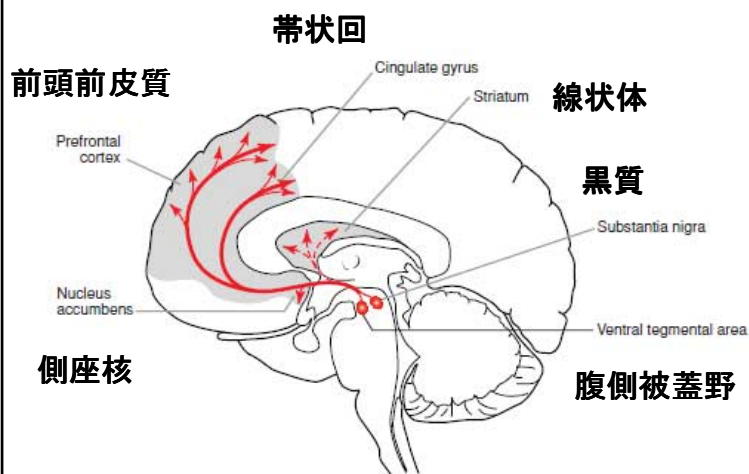
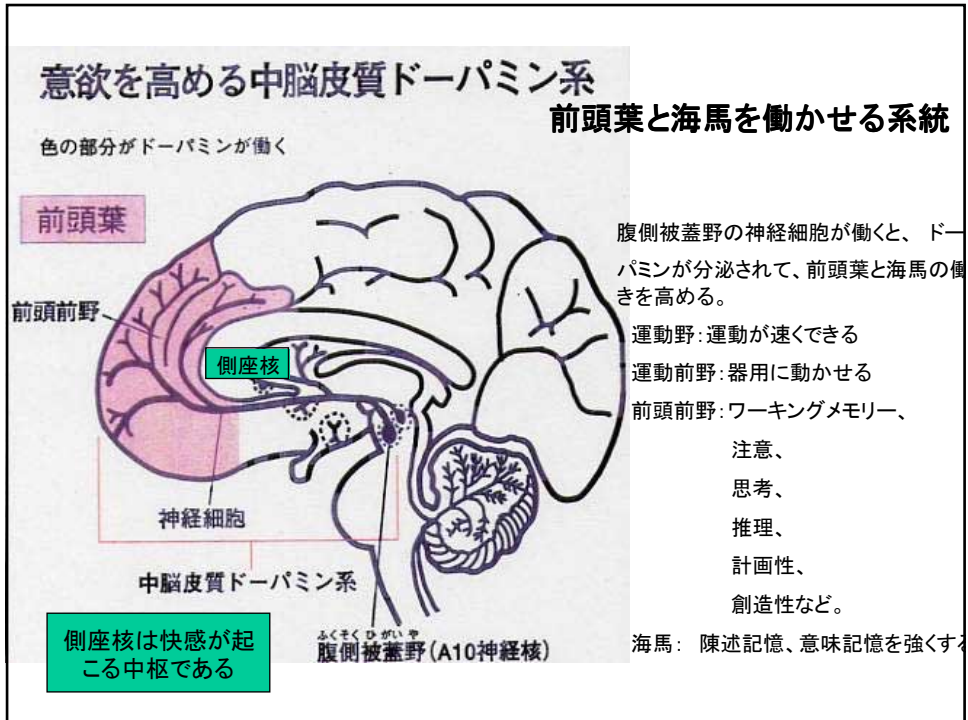
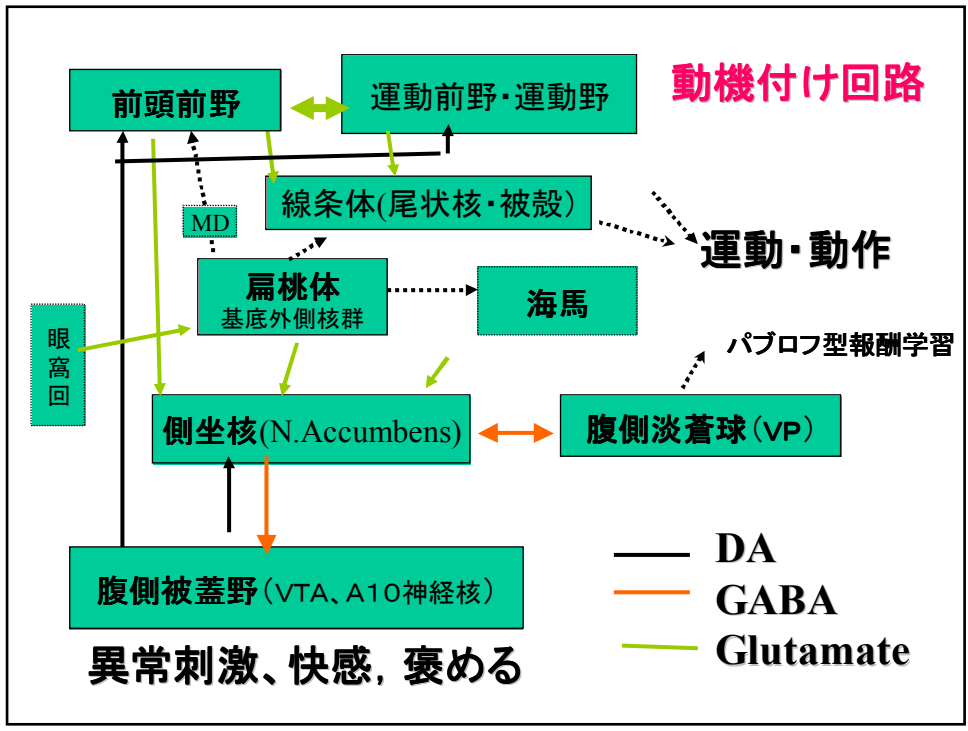


Figure 2

Dopamine projections to the forebrain. Illustrated are projections from the ventral tegmental area to the nucleus accumbens, and prefrontal cerebral cortex, and projections from the substantia nigra to the dorsal striatum (caudate and putamen and related structures).



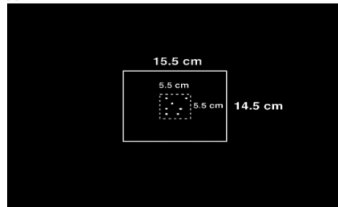
ペルマックス(D1レセプター作動薬)は空間性ワーキングメモリー課題の成績を良くする

D1- Versus D2-Receptor Modulation of Visuospatial Working Memory in Humans

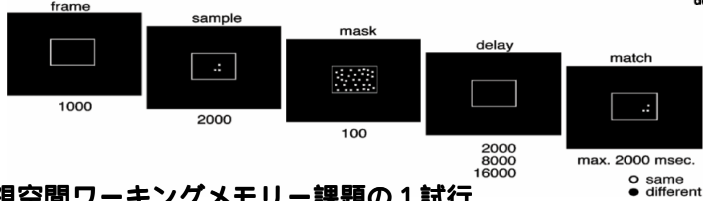
Ulrich Müller, D. Yves von Cramon, and Stefan Pollmann  
Max-Planck-Institute of Cognitive Neuroscience, 04103 Leipzig, Germany

The Journal of Neuroscience, April 1, 1998, 18(7):2720-2728

A ディスプレーとドットボタン

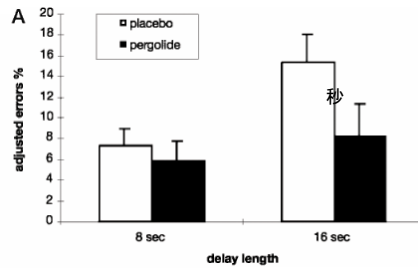


B



視空間ワーキングメモリー課題の1試行

間違い率、偽薬とペルマックス



遅延時間

Figure 2. A, Location of frame and dot pattern on the screen. B, Visuospatial delayed matching task; time course of a single trial.



NeuroImage

www.elsevier.com/locate/ynimg  
NeuroImage 31 (2006) 1419–1425

Brain abnormalities in human obesity: A voxel-based morphometric study

Nicola Pannacciulli,<sup>a,\*</sup> Angelo Del Parigi,<sup>a</sup> Kewei Chen,<sup>b</sup> Duc Son N.T. Le,<sup>a</sup> Eric M. Reiman,<sup>b</sup> and Pietro A. Tataranni<sup>a</sup>

BMI39.4(24人、32歳)と22.7(36人、23歳)の脳の比較

肥満で、脳皮質が小さくなる領域

中心後回

N. Pannacciulli et al. / NeuroImage 31 (2006) 1419–1425

