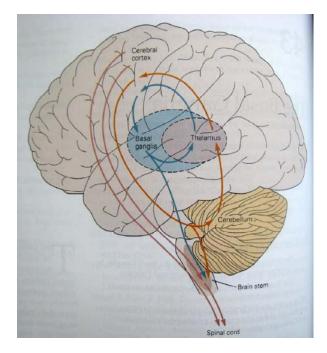
Basal Ganglia

Emo Todorov

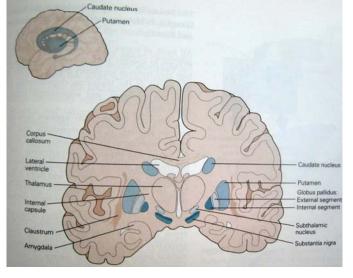
Applied Mathematics Computer Science and Engineering

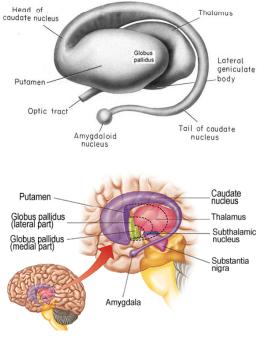
University of Washington

Loops with cortex

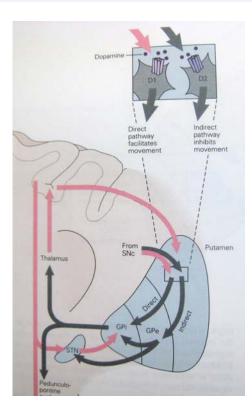


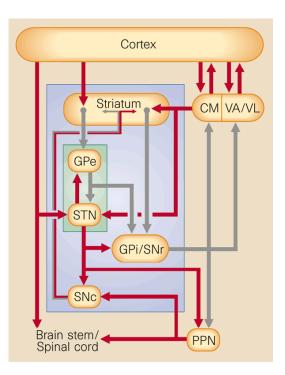
Subdivisions





Circuit diagram

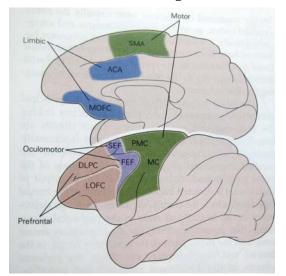




3

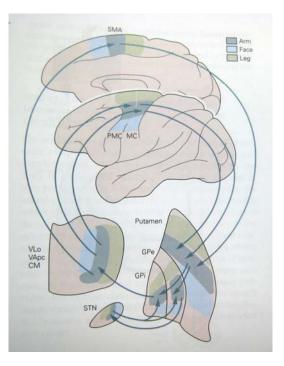
Recurrent connections with cortex

Cortical targets



A 14.2

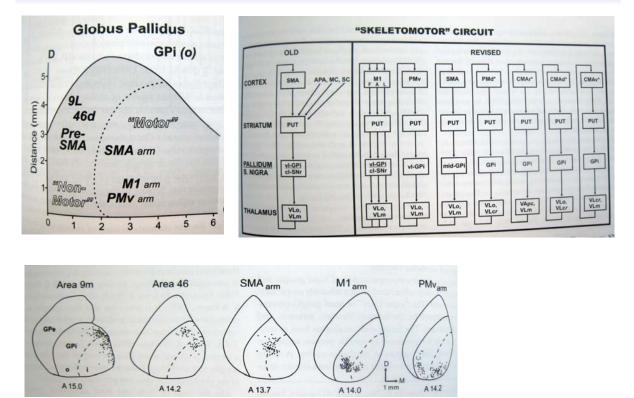
A 13.7



5

6

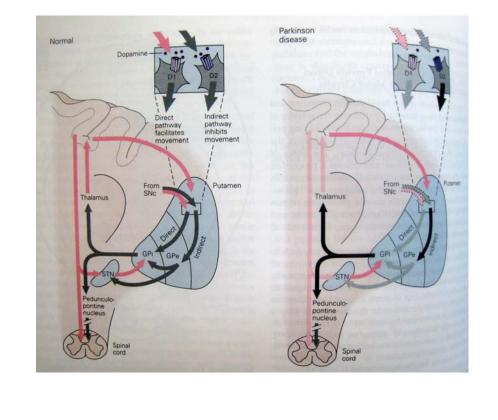
Specificity or recurrent connections



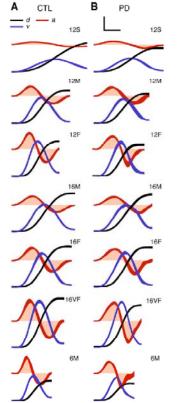
A 14.0

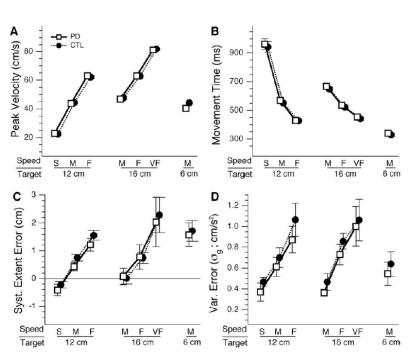
A 14.2

Imbalance of excitation and inhibition

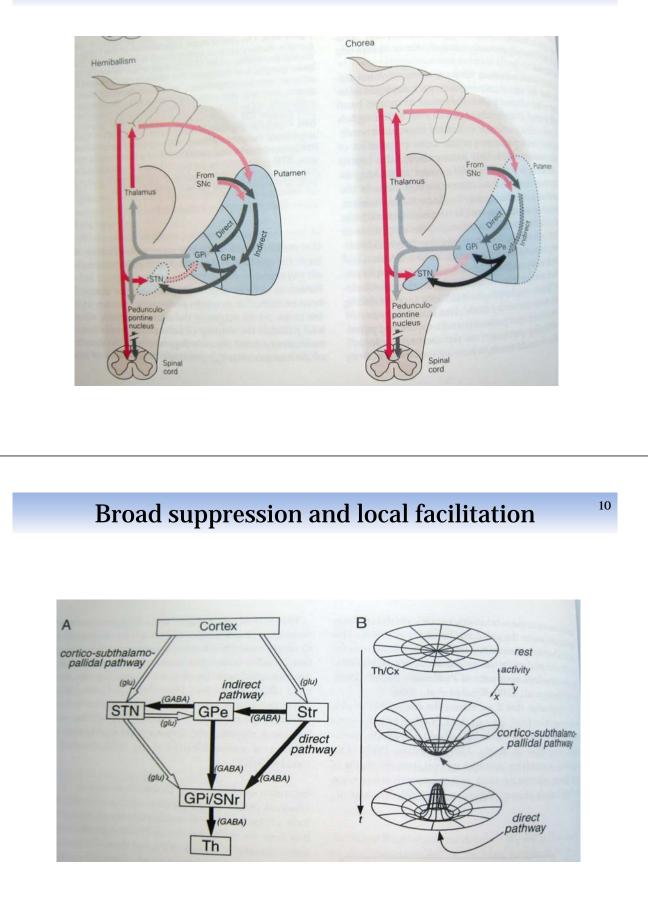


Parkinson's movements are mostly normal

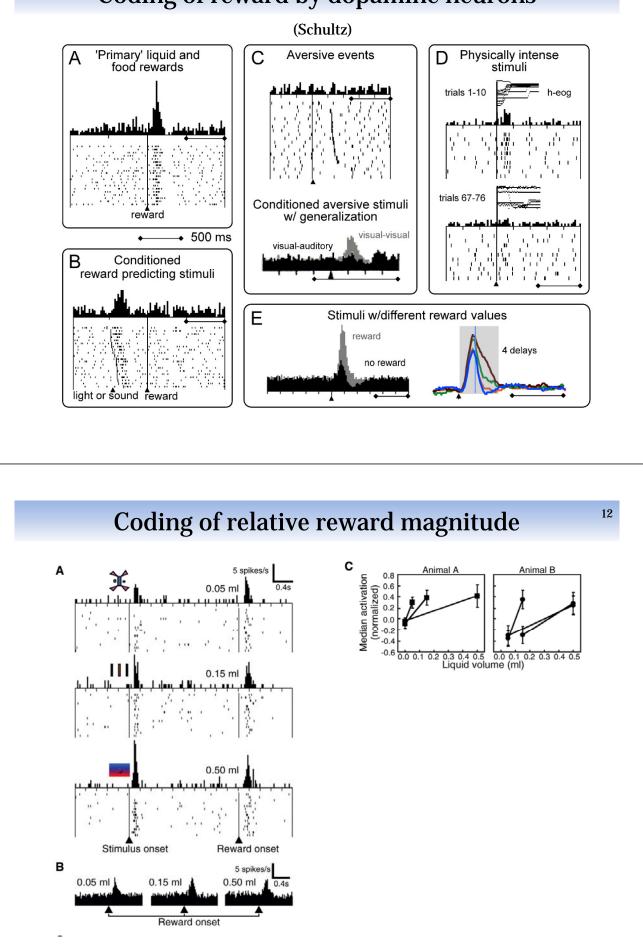




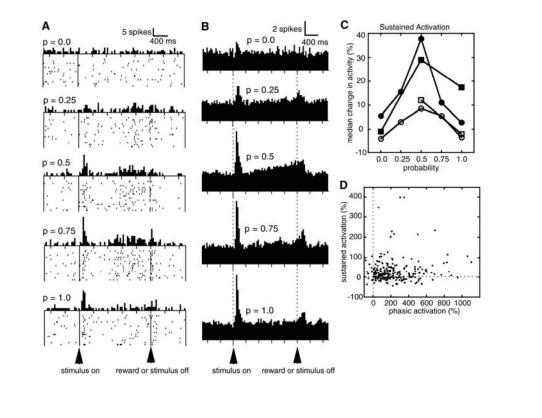
Imbalance of excitation and inhibition



Coding of reward by dopamine neurons



Coding of reward uncertainty/risk



Learning effects on spatial coding

