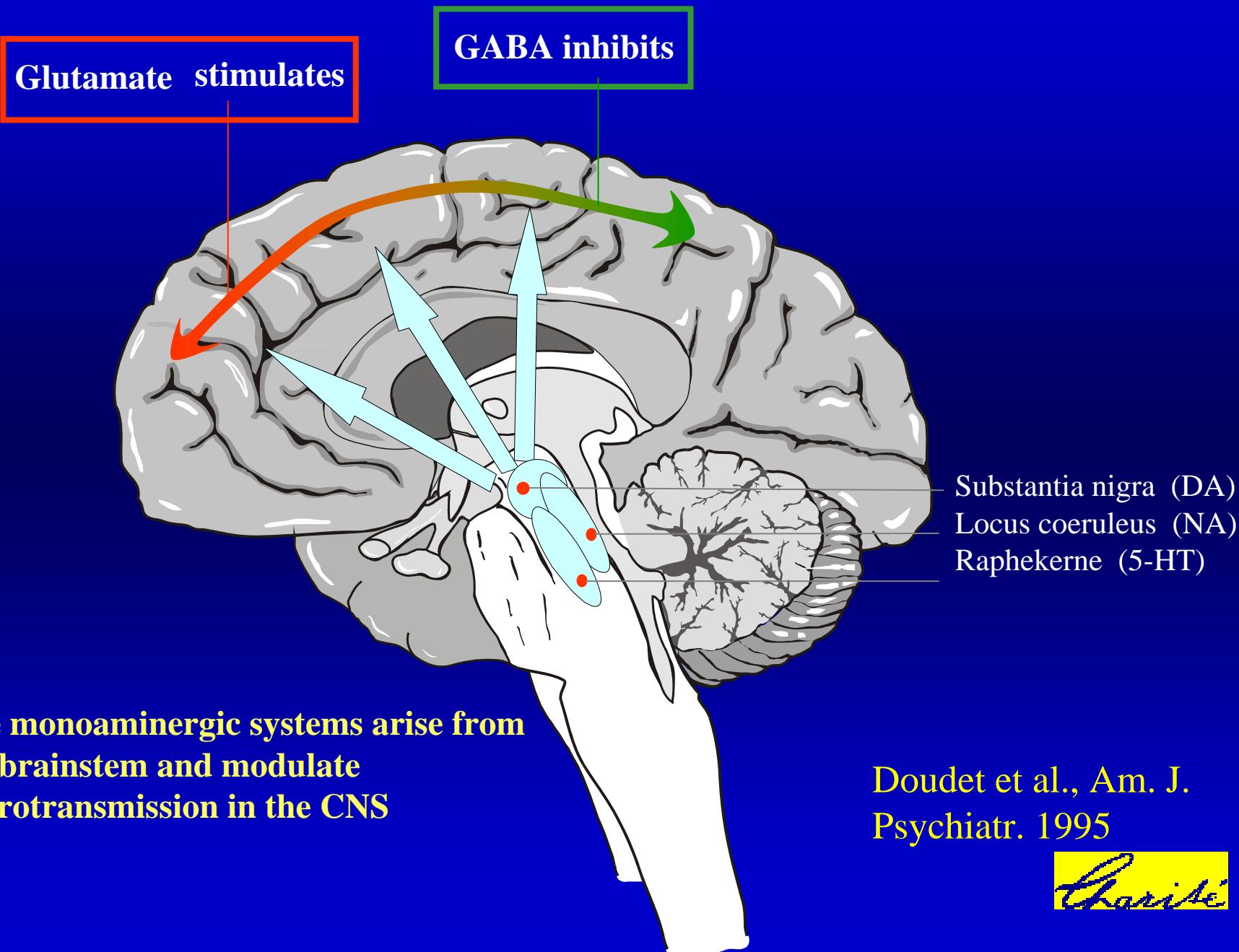
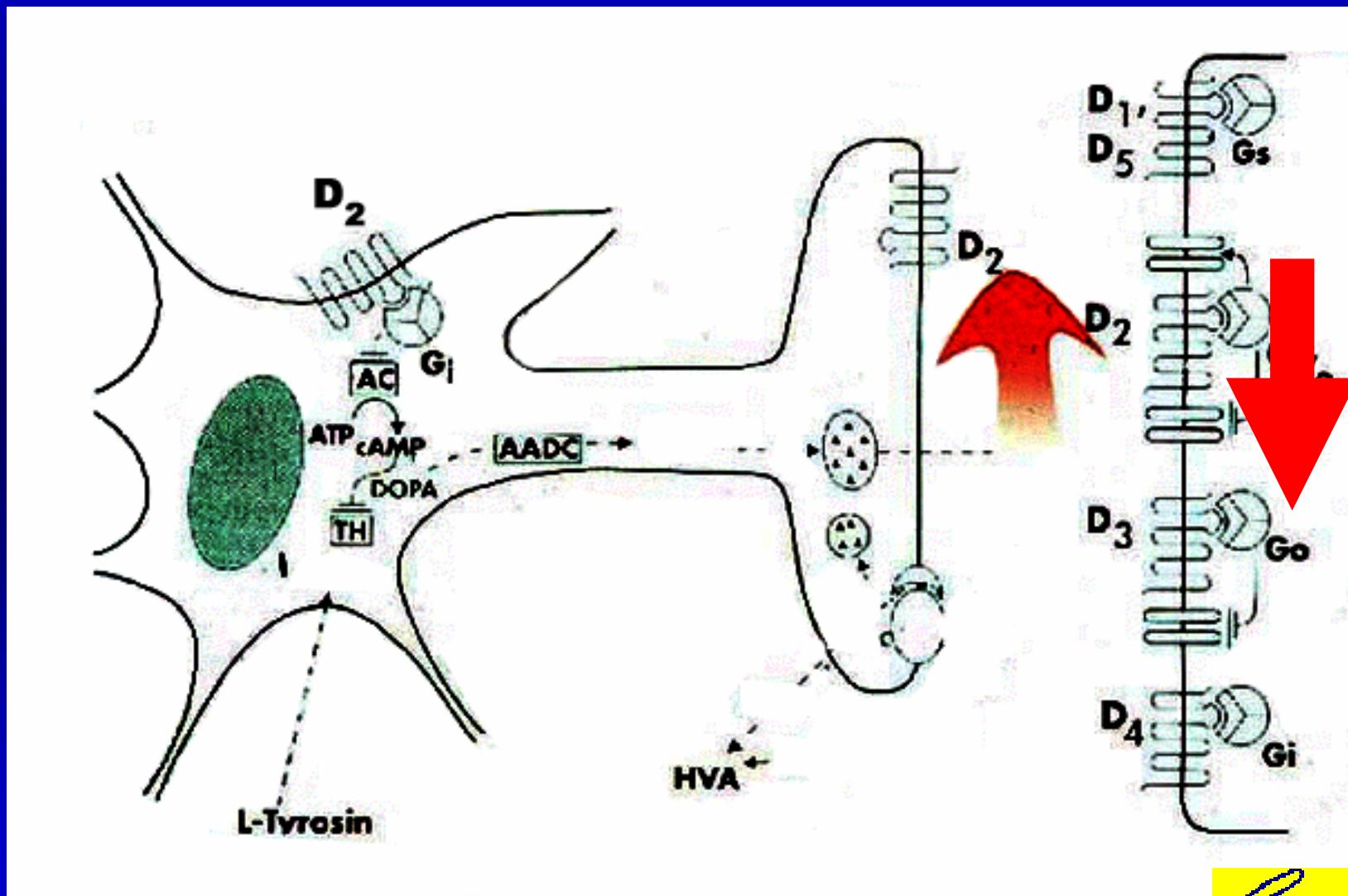


Dopamine D2 and mu-opiate receptors in the reward system of detoxified alcoholics

Heinz A, Gründer G, Wräse J, Braus DF, Reimold R, Bares R, Machulla HJ, Siessmeier T, Bartenstein P, Mann K
Charité, Berlin, Central Institute of Mental Health, Mannheim
& PET Center Univ. Tübingen
& PET Center Univ. Mainz

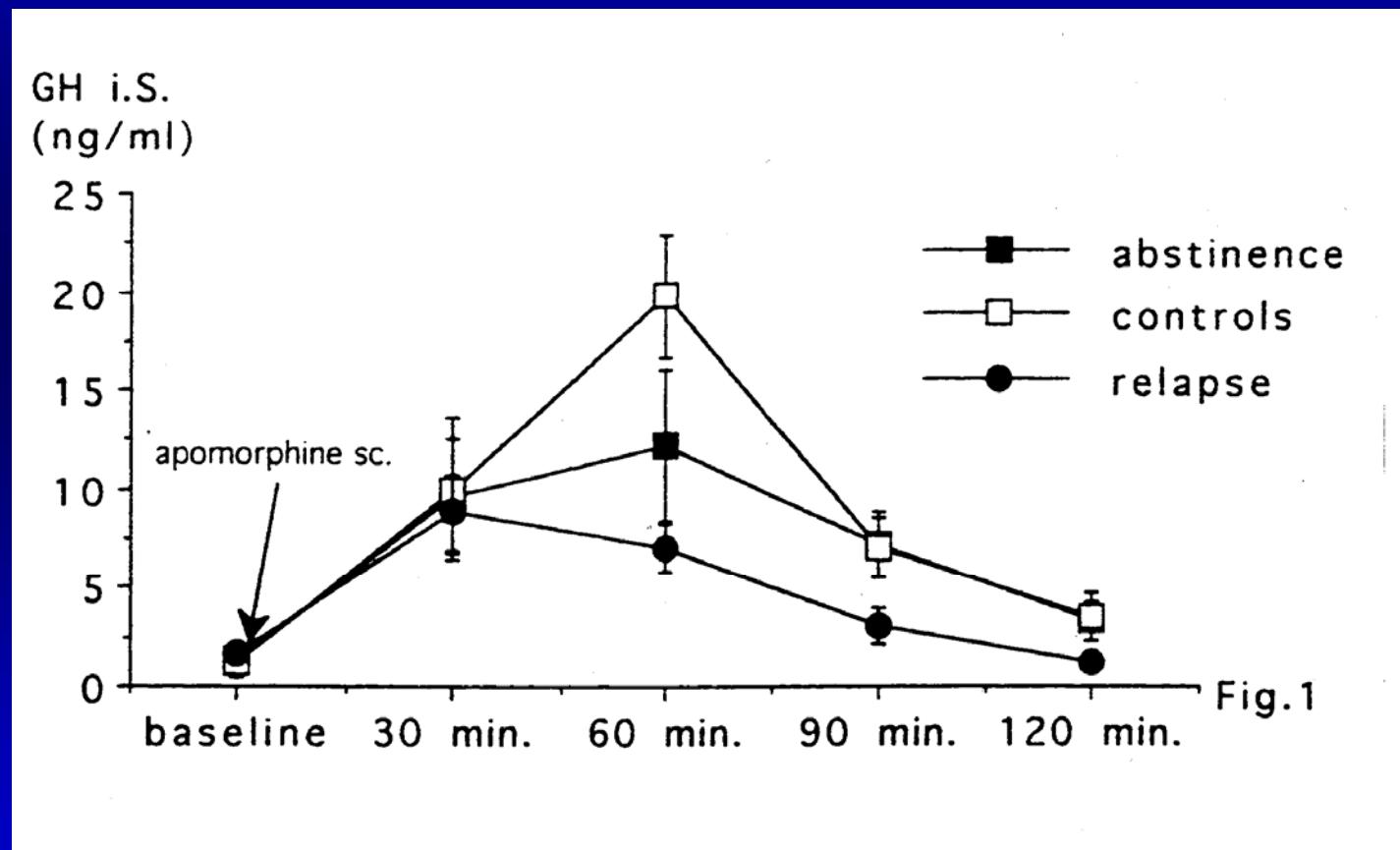


Chronic alcohol intake



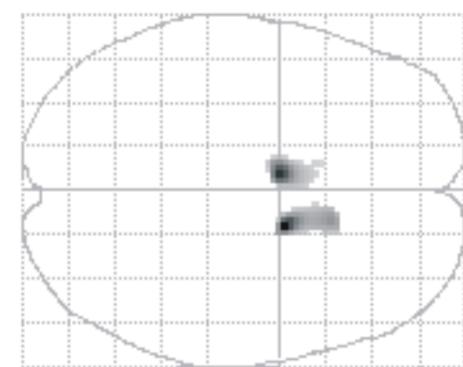
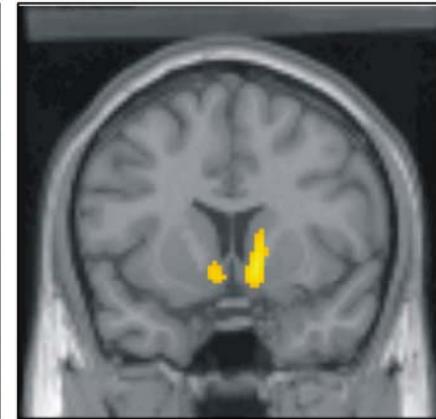
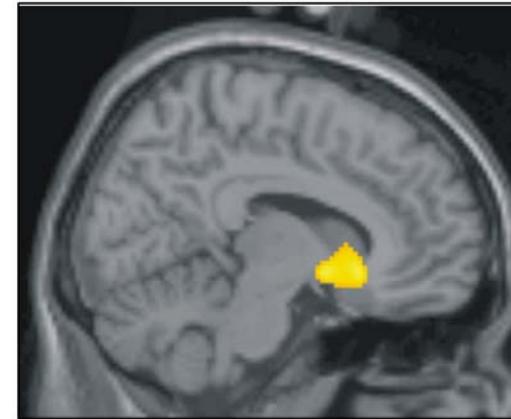
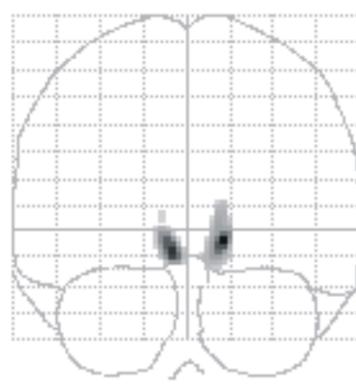
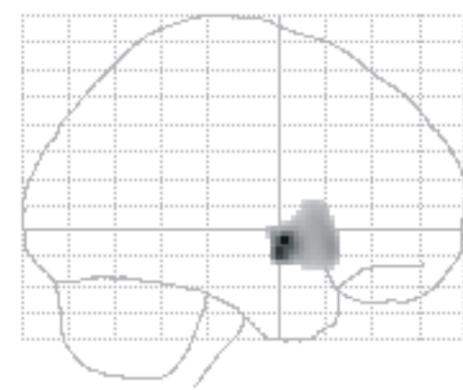
Charise

High relapse risk in alcoholics with prolonged recovery of central dopamine receptor sensitivity

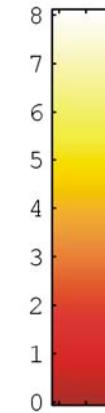
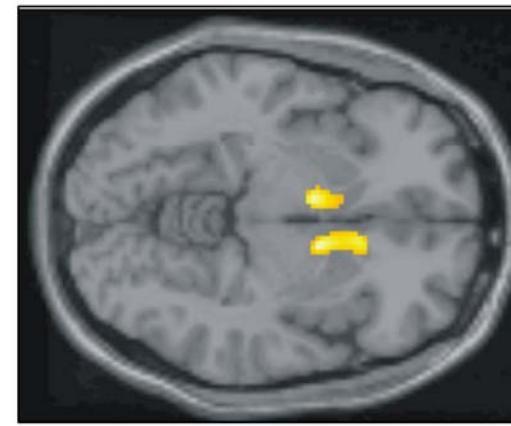


Heinz et al., Arch. Gen. Psychiatr. 1996

Charité



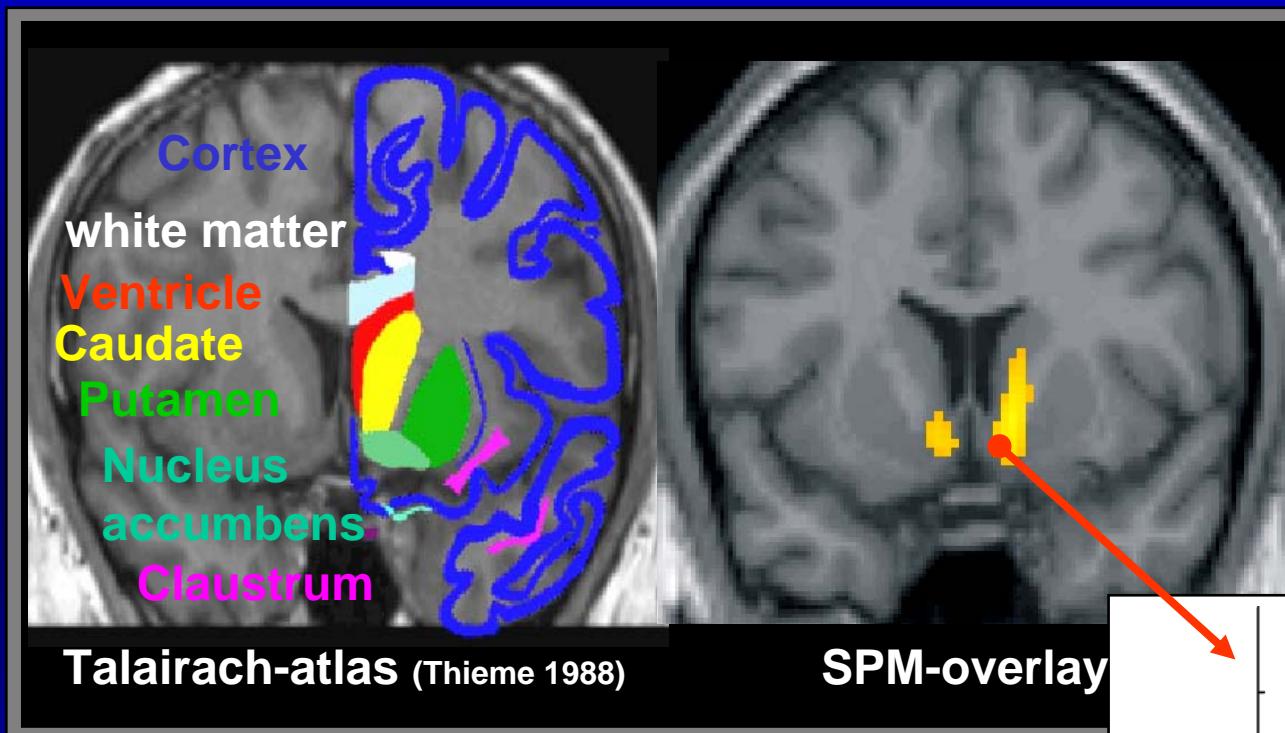
$\text{SPM}\{T_9\}$



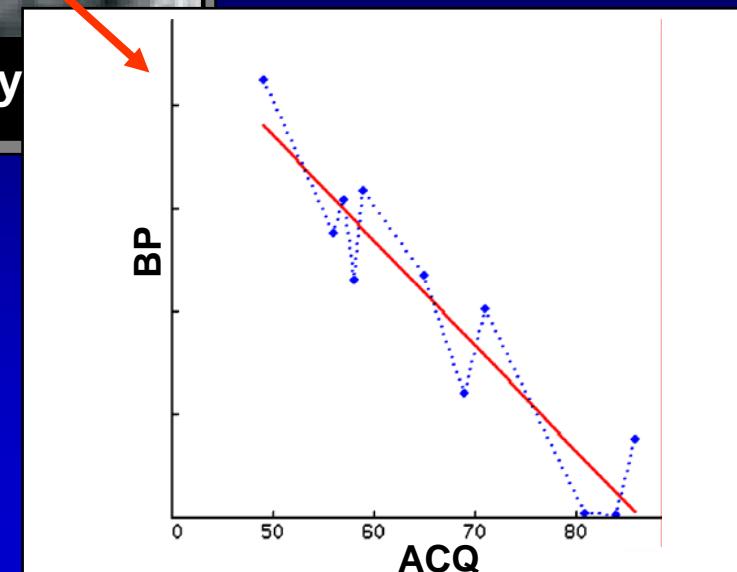
Heinz et al., submitted

Charise

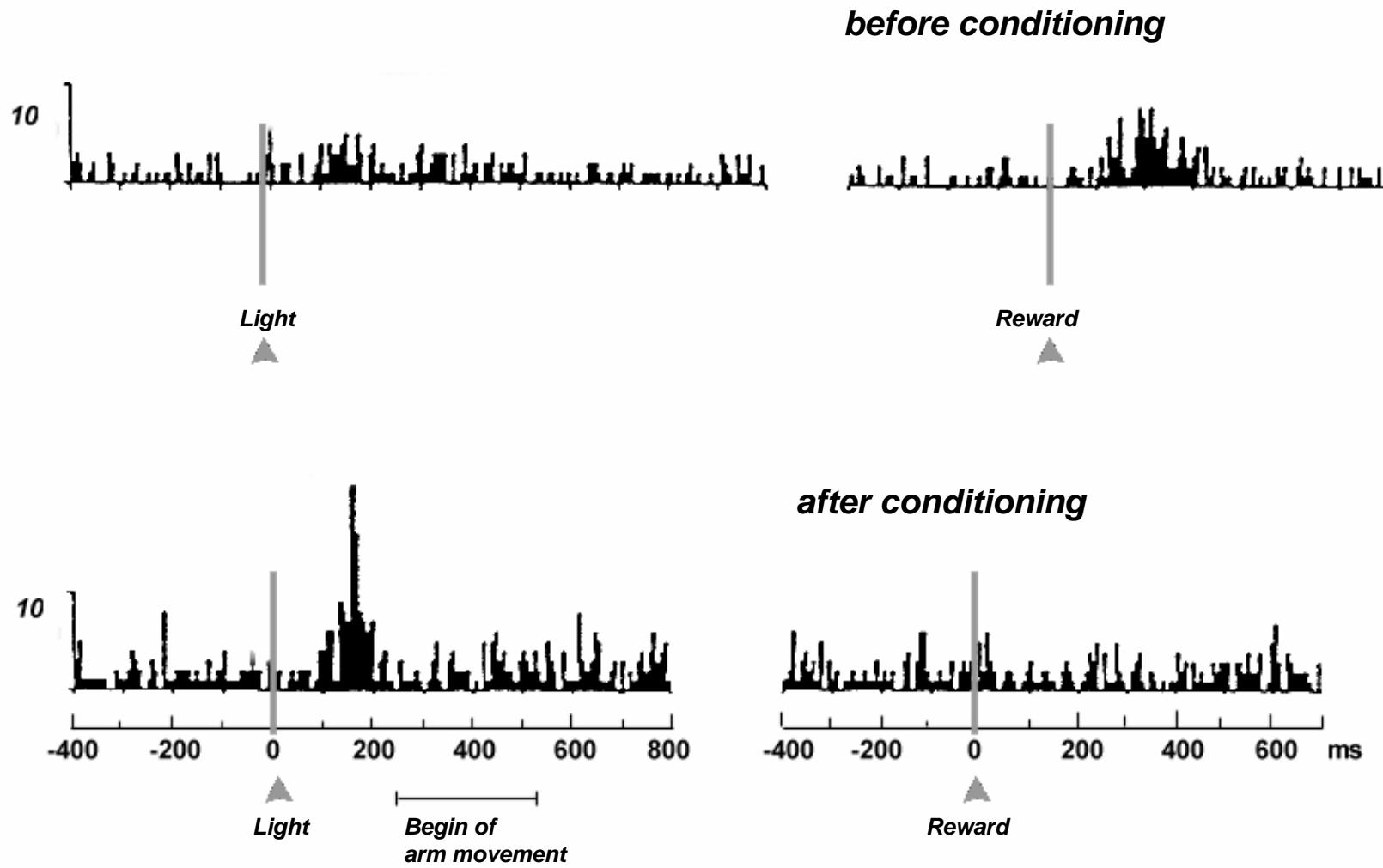
Dopamine D2-receptor availability and craving



Plot of the correlation
at xyz 16 / 14 / -6



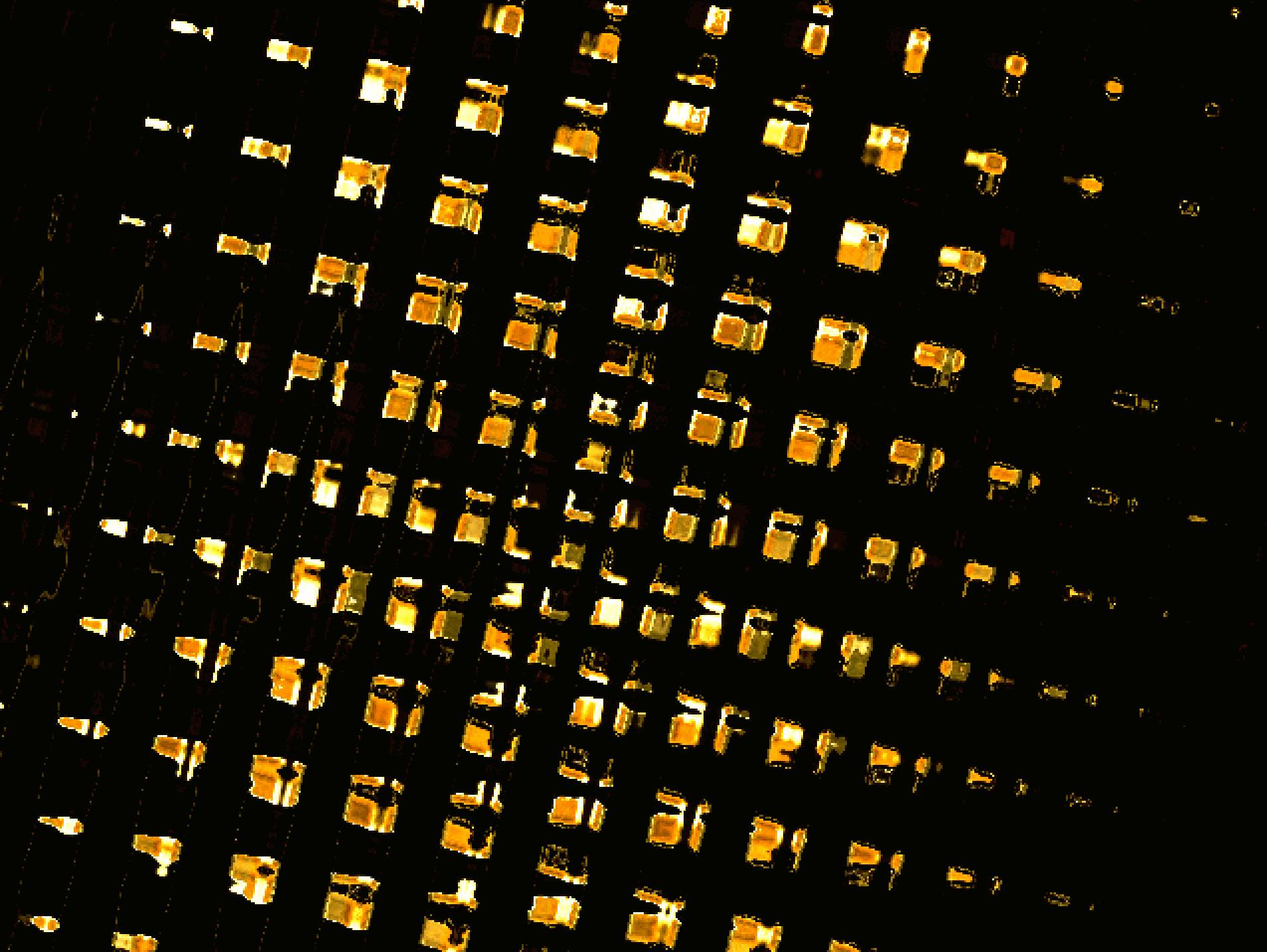
Charité



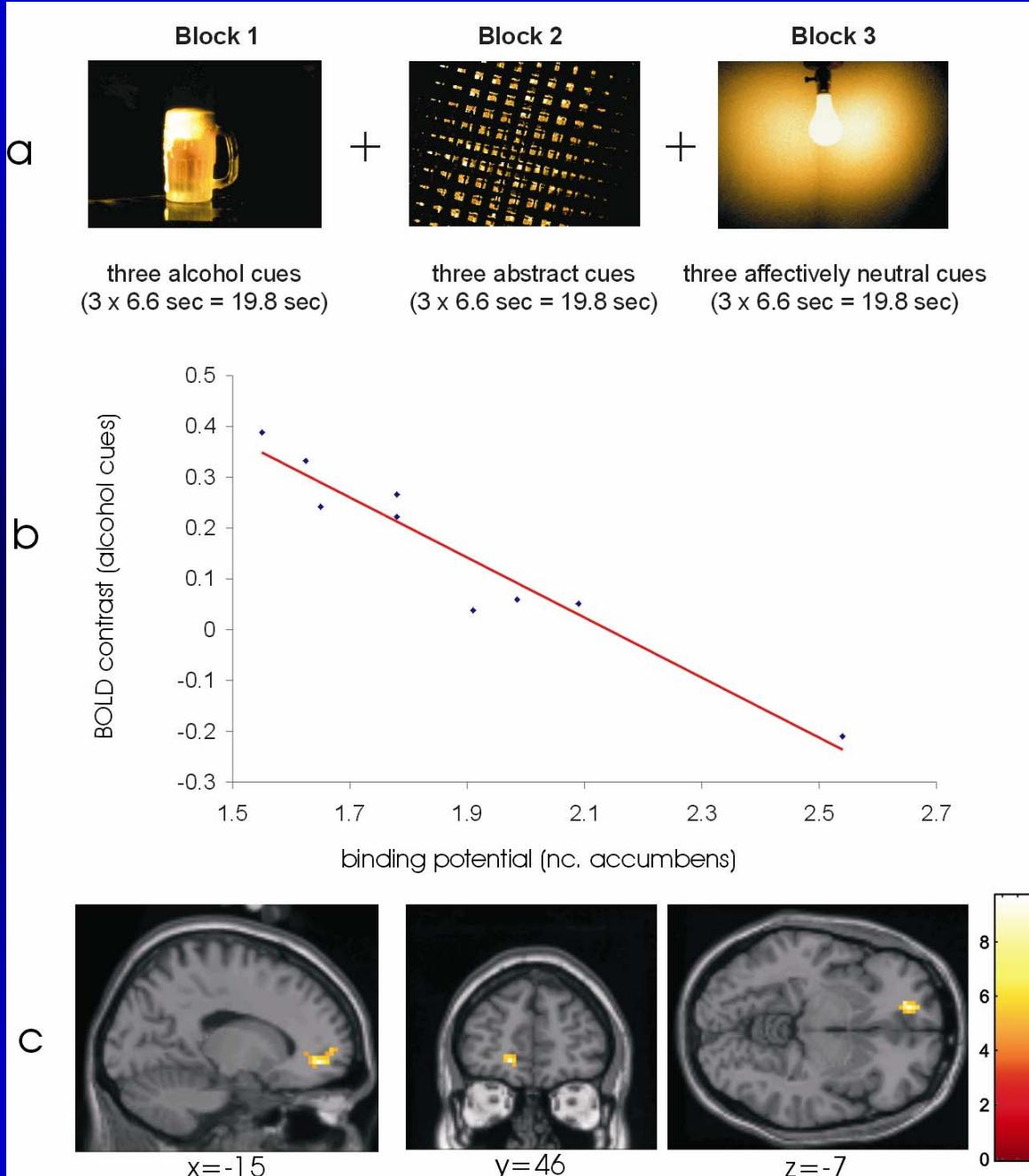
Schultz et al., 1993

Charise

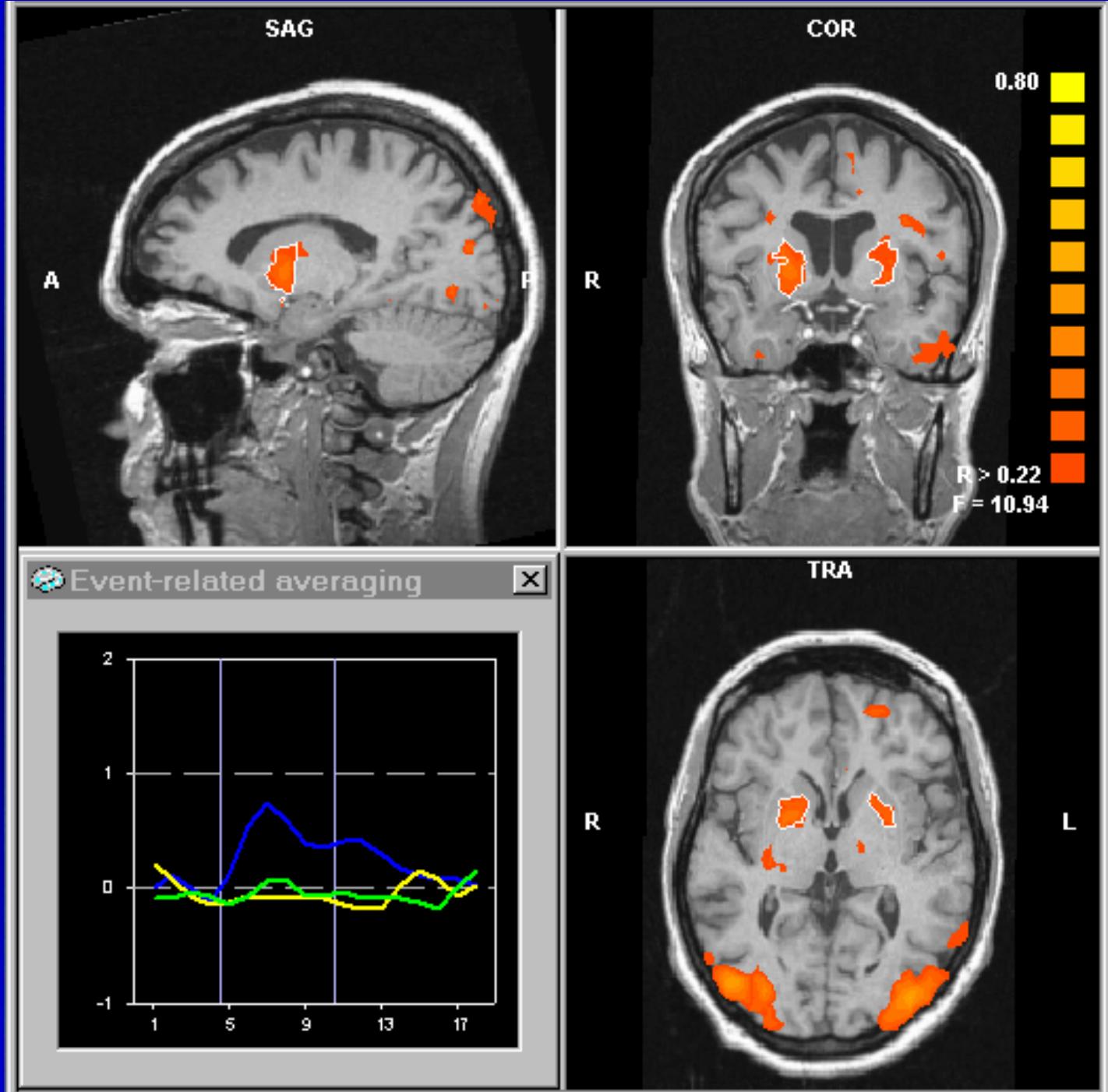








For presentation
 $P < 0.001$
 uncorrected



Braus et al.,
J. Neural
Transm.
2002

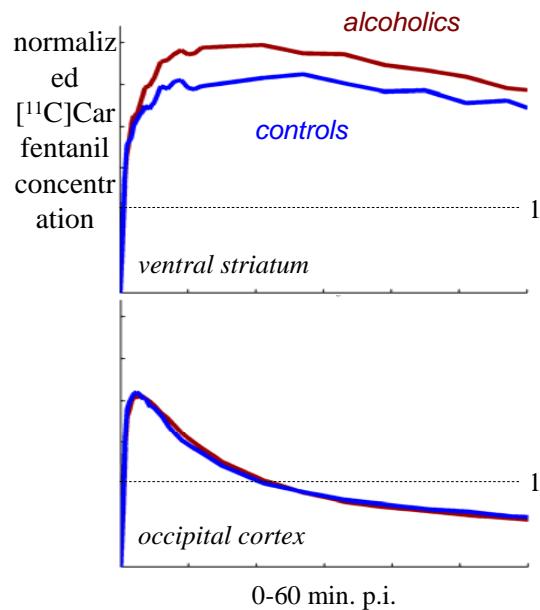
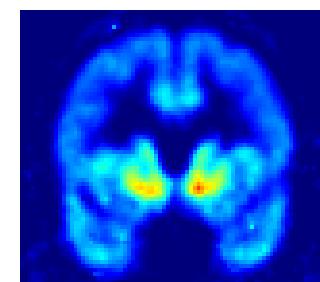
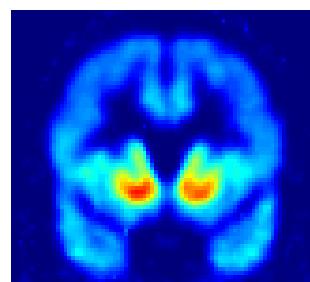
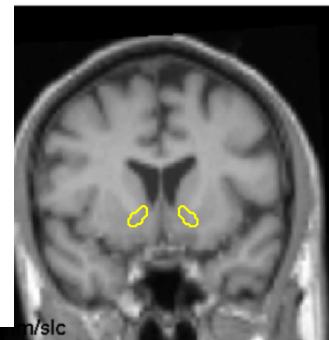
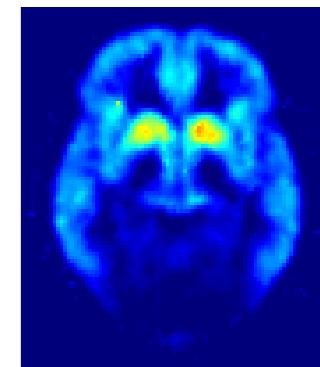
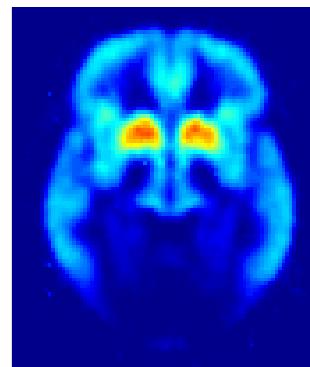
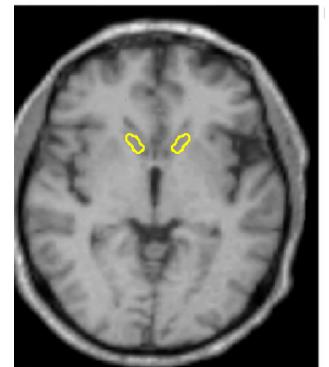
Charité



Heinz et al., submitted

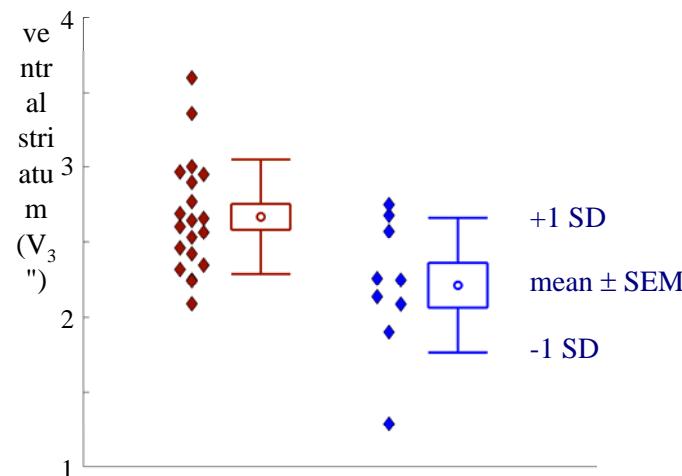
Charise

Heinz et al.,
submitted

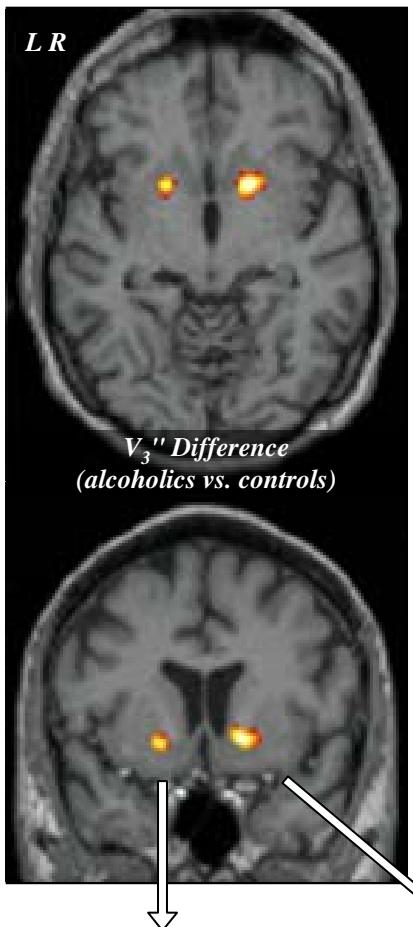


Alcoholics

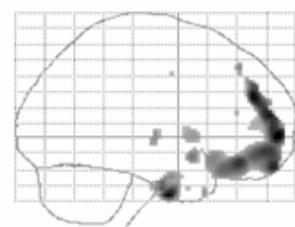
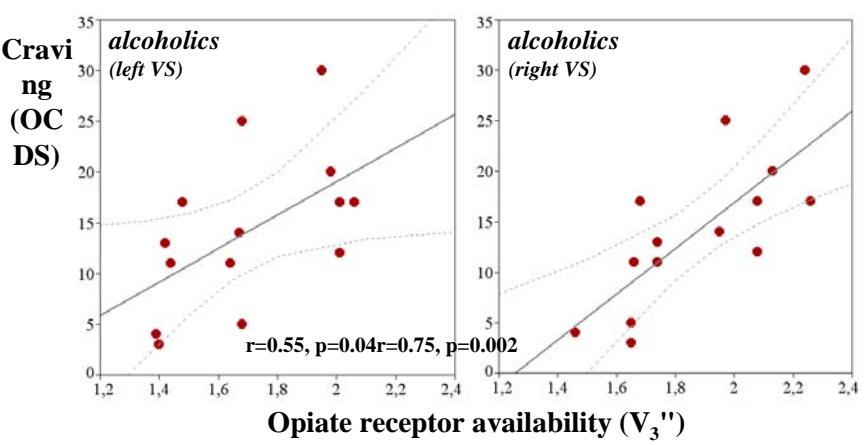
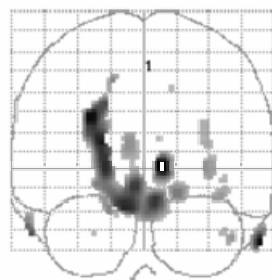
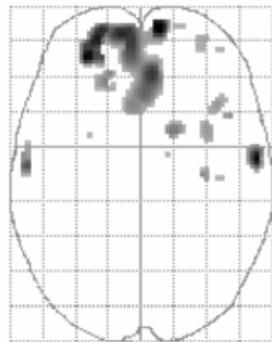
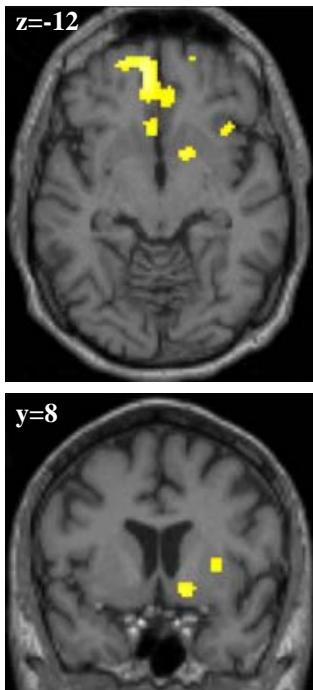
healthy controls



Charite



SPM: V₃'' versus OCDS (alcoholics)



**μ-Opiat-
rezeptoren
& Craving
(OCDS)**

Charité

Summary

- Chronic „obsessive“ alcohol craving associated with increased mu-opiate receptors in the ventral striatum
- Acute alcohol craving and increased mPFC activation by alcohol-associated cues associated with reduced D2 receptors in the ventral striatum

Wilhelm Griesinger



Charité