Legends to supplementary figures

Figure S1: Quantification of striatal and lateral ventricle volume

Representative horizontal T2-weighted MRI slices of a wild type mouse at 5 months of age with overlaid volumetry results in the striatum (upper row) and ventricles (lower row) (red: left striatum, green: right striatum, magenta: ventricles).

Figure S2: Lack of dopaminergic degeneration in the substantia nigra of Cra/+ brains

A-B Representative photographs of sections of the substantia nigra processed for tyrosine hydroxylase (TH) immunohistochemistry from wild-type mice (+/+) at 6 months of age as well as heterozygous *Cra*/+ mice at 6 and 18 months of age.

C Stereological estimation of the total number of TH-positive neurons in the unilateral substantia nigra pars compacta did not show any differences between the groups (n=2-3 mice per group).

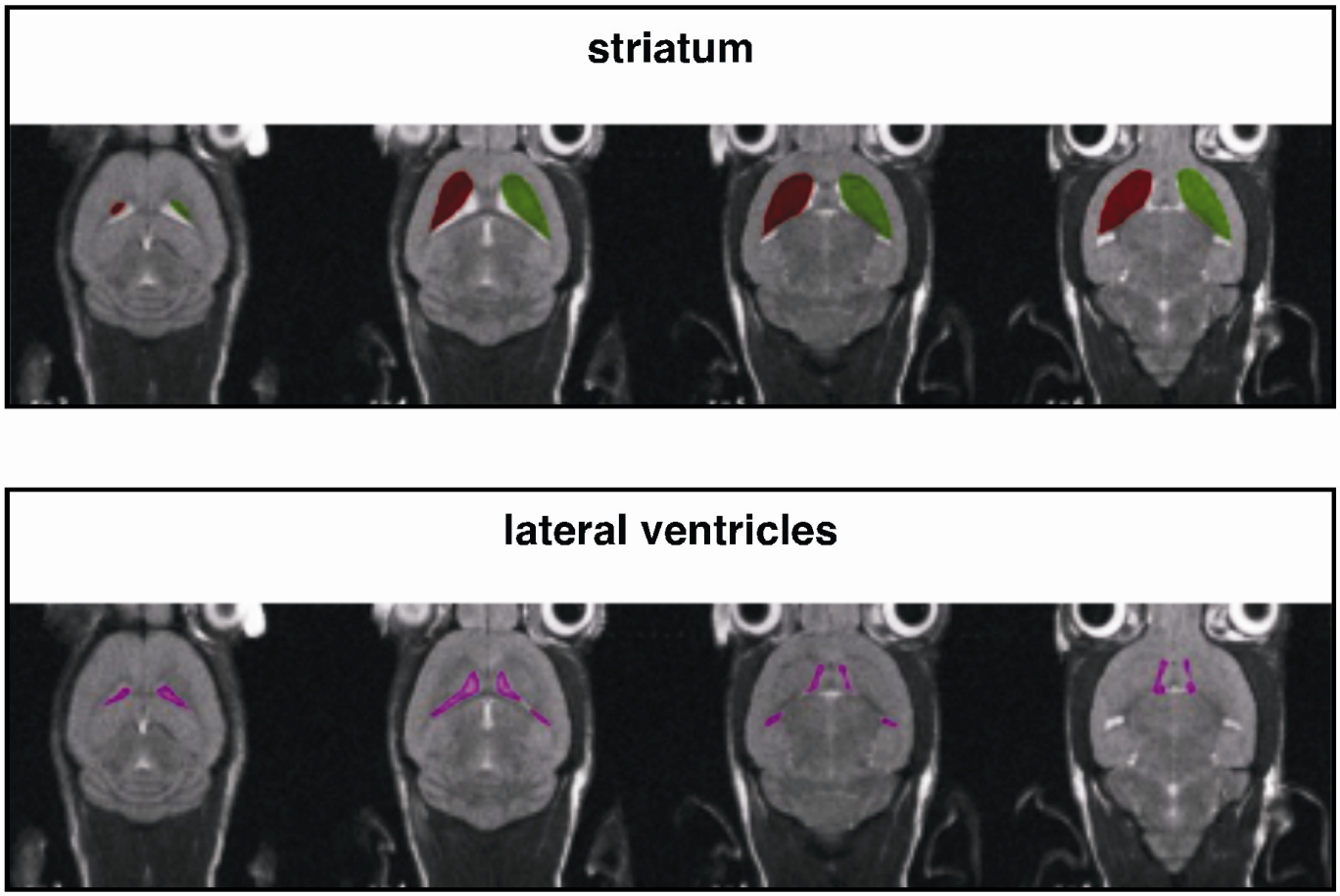
Figure S3: Normal BDNF supply to *Cra*/+ striatum and normal BDNF response of *Cra*/+ striatal neurons

A mRNA levels of BDNF in the cortex from wild-type mice (+/+) and heterozygous Cra/+ mice at 4 months of age. **P*<0.05 *versus* wild-type (n=5 mice per group).

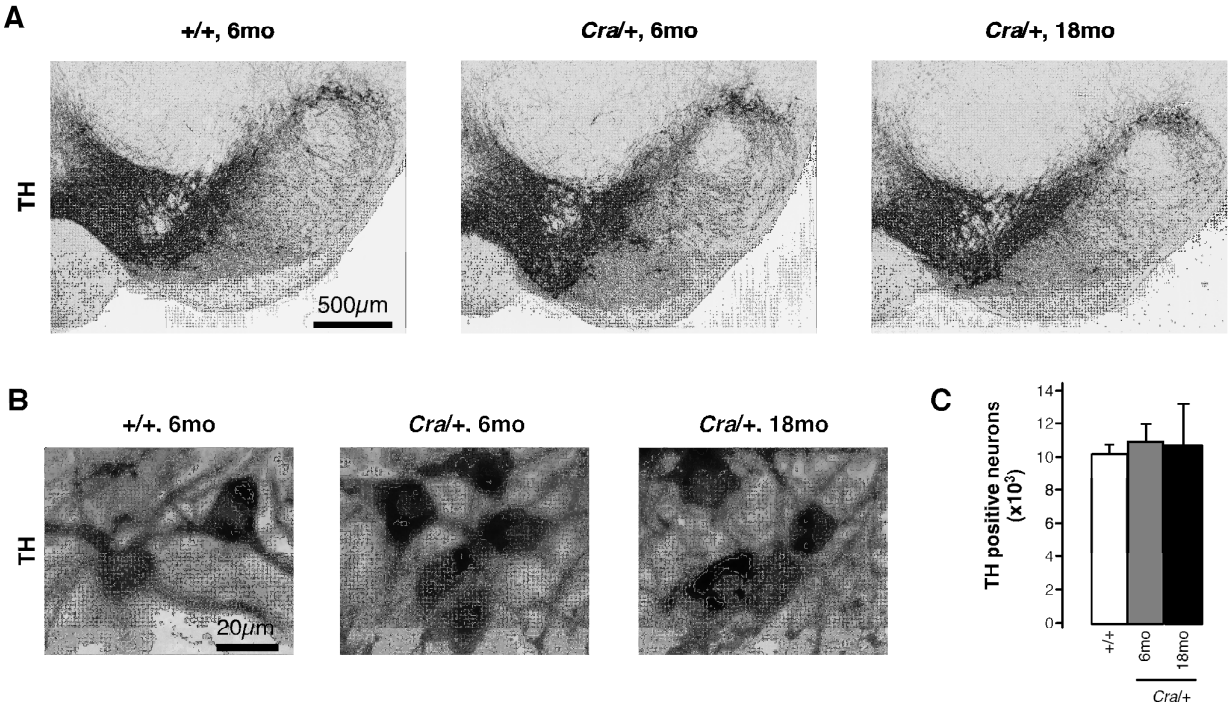
B BDNF protein level in striatum from wild-type mice (+/+) and heterozygous Cra/+ mice at 4 months of age. **P*<0.05 *versus* wild-type (n=7 mice per group).

C mRNA levels of DARPP-32 in primary striata neuronal culture from wild-type embryo (+/+), heterozygous Cra/+ embryo and homozygous Cra/Cra embryo stimulated with 0, 10 or 100 ng/ml of BDNF during 4 hours.

Braunstein, Eschbach, Rona-Vörös et al., figure S1



Braunstein, Eschbach, Vorös et al., supplementary figure 2



Braunstein, Eschbach, Vorös et al., supplementary figure 3