

Supplementary Information (Vo et al.)

Contents:

Supplementary videos 1&2

Video S1: Time-dependent group-averaged CBV response (n=8) to 20-s forepaw stimulation before CNO injection at left S1FL. In pre CNO, the CBV response quickly increases in first 5 seconds, then predominantly becomes more specific to thalamocortical input (layer 4) at later time points.

Video S2: Time-dependent group-averaged CBV response (n=8) to 20-s forepaw stimulation after CNO injection at left S1FL. In post CNO, the CBV response slowly increases at initial periods (1-10s). At a later period (11-20s), the localization at layer 4 was reduced, while the response in layer 2/3 remained similar. This caused the peak of the post-CNO CBV response to shift toward the upper cortical layers.

