



**Supplemental figure 1.** CCI Procedure. (A) The head of the mouse was fixed in a stereotaxic frame, and a 10-mm-length incision was performed along the midline. (B) A 4-mm-diameter craniotomy was performed at 2.0 mm posterior to the bregma and 2.0 mm lateral to the midline over the right hemisphere and a 3.0-mm rounded metal tip attached to the Pin-Point CCI device was angled vertically towards the brain surface. (C) A severe injury was performed successfully.