

Description of Additional Supplementary Files

File name: SupplementaryData1bcd_OFT_Mobility.prism

Description: Numerical source data for Open Field Test mobility measures corresponding to **Fig 1b**, **Fig 1c**, and **Fig 1d**.

File name: SupplementaryData1ef_OFT_CenterPerimeter.prism

Description: Numerical source data for Open Field Test location measures corresponding to **Fig 1e** and **Fig 1f**.

File name: SupplementaryData1g_NOR.prism

Description: Numerical source data for Novel Object Recognition discrimination index corresponding to **Fig 1g**.

File name: SupplementaryData1h_Rotarod.prism

Description: Numerical source data for RotaRod slip latency corresponding to **Fig 1h**.

File name: SupplementaryData1ij_BeamWalk.prism

Description: Numerical source data for Tapered Balance Beam Walk performance corresponding to **Fig 1i** and **Fig 1j**.

File name: SupplementaryData2_DWI_Scan1.xlsx

Description: Numerical source data for Day 3 DWI measures (ADC and FA) corresponding to **Fig 2**.

File name: SupplementaryData2_DWI_Scan2.xlsx

Description: Numerical source data for Day 22 DWI measures (ADC and FA).

File name: SupplementaryData3_fMRI_CO2.xlsx

Description: Numerical source data for positive and negative BOLD activation during hypercapnic challenge corresponding to **Fig 3**.

File name: SupplementaryData4_FunctionalConnectivity.prism

Description: Numerical source data for average degree connectivity by grouped brain region corresponding to **Fig 4**.

File name: SupplementaryData4_WeightedDegrees.prism

Description: Numerical source data for average degree connectivity by individual brain area corresponding to **Fig 4**.

File name: SupplementaryData5_WesternBlot.xlsx

Description: Numerical source data for Western Blots corresponding to **Fig 5** and **Supplementary Figure 3**.