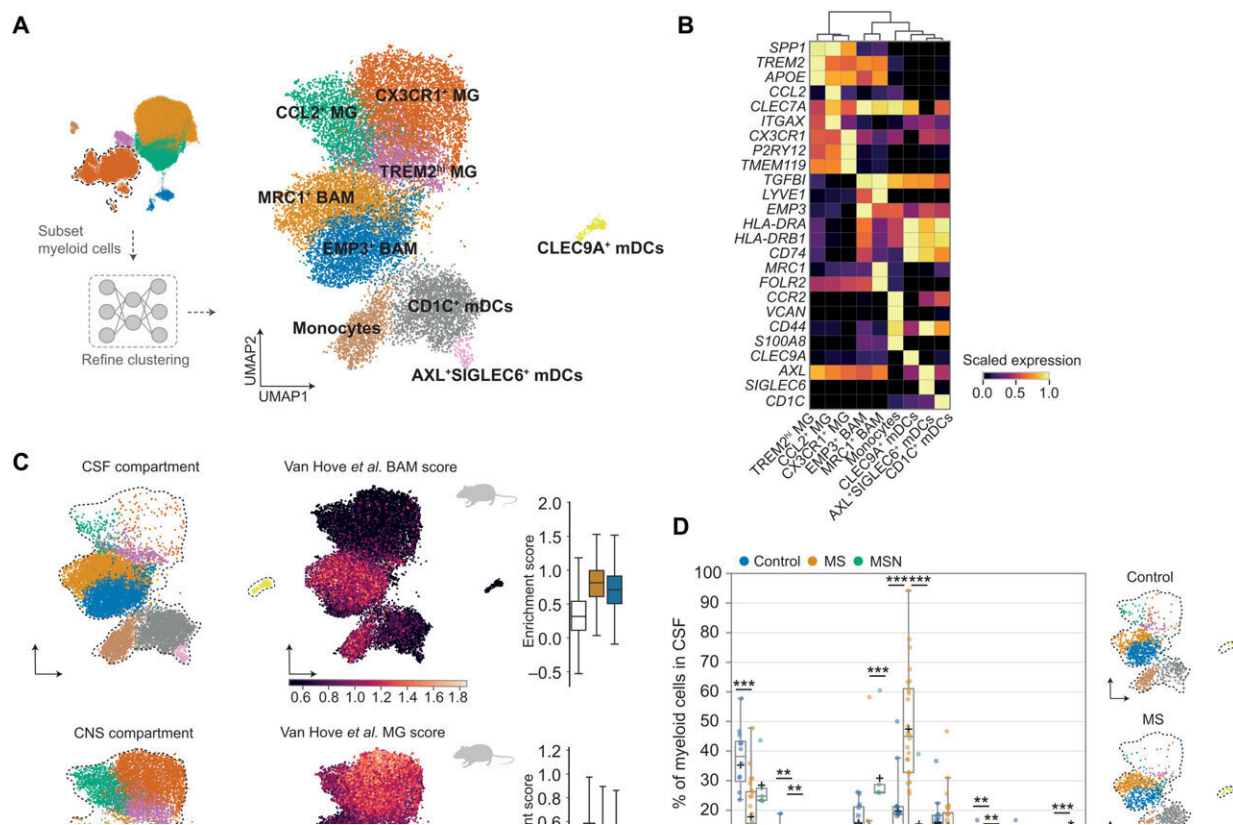


# Map of immune cells in the brain and cerebrospinal fluid provides invaluable information

December 14 2022



The myeloid cell composition in the CSF reflects the CNS and is dominated by infiltrating dendritic cells in MS. (A) Subsetting strategy and manifold plot for the myeloid lineage. (B) The matrix plot shows a selection of marker genes for the respective clusters. (C) Manifold plots show the dataset subsetting to either CSF (top left) or CNS samples (top right) and the expression of murine BAM-specific (bottom left) or MG-specific (bottom right) transcription profiles; box

plots indicate profile expression between clusters (27). (D) The box plot shows the frequencies of myeloid subsets in CSF for control (n = 12), MS (n = 24), and MSN (n = 5) (left) with condition-specific manifold plots downsampled to show equal number of cells for each condition (right). Statistics were computed using linear regression. (E) Flow cytometry cell counts (in cells/ml) are shown for mDCs in CSF of control (n = 7), MS (n = 25), and MSN (n = 4). (F) Donut charts of CNS samples are shown for either control (n = 9) or lesional tumefactive MS tissue (n = 3) with integrated manifold plots. Box plots show the IQR with whiskers indicating  $1.5 \times \text{IQR}$ , “+” indicating the mean, and the line indicating the median. \*P

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