

a Home page

The figure shows the main dashboard of the Brain Cell Atlas. At the top, there are tabs for Home, Portrait, Data Viewer, Gene, Cell Sorting, Datasets, Help, and Contact. Below the tabs, the title "Statistics of Brain Cell Atlas" is displayed, followed by a "WELCOME" message and a progress bar. The central part of the dashboard features a "STATS" section with various metrics: 77 samples, 11M genes, 10+ cell types, and 9 clusters. Below this, the title "Sub-atlas of Brain Cell Atlas" is shown, followed by "ATLAS". At the bottom, there are five circular icons representing different brain regions: ANTERIOR BRAIN, POSTERIOR BRAIN, SENSORY, MOTORIC, and ASSOCIATIVE. To the right of the dashboard is a large, colorful UMAP visualization titled "UMAP of sub atlas", showing the spatial distribution of different cell types.

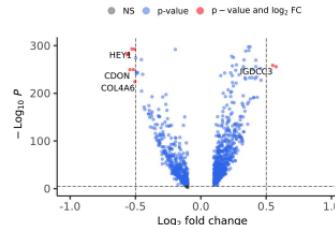
b Data viewer page

The figure shows the CellBrowser interface with two main panels. The left panel displays 'Metadata entries' for 'Adult' samples, listing categories like DEGrowth, StemLACTIN, StemCHETAN, StemSinger, and Stem_mrof_SCANWLL1, each with a dropdown arrow. The right panel shows a 2D UMAP embedding of the data, where samples are represented as colored shapes (pink, purple, blue) on a white background.

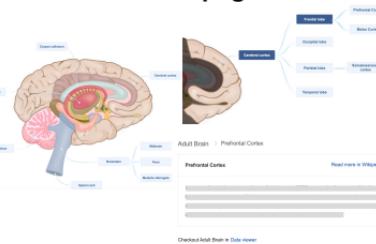
Markers page

The screenshot shows a search interface for 'Putative gene markers table'. At the top, there are two tabs: 'By Region' (selected) and 'By CellType'. Below this is a search bar with 'REGION' and 'CELLTYPE' dropdowns. The 'REGION' dropdown contains 'Cerebellum' and 'Oligodendrocyte' is selected in the 'CELLTYPE' dropdown. To the right of the dropdowns is a 'Markers' button. The main title 'Putative gene markers table' is centered above a table. The table has columns for 'MARKERS', 'Search by Region', 'Cell type', and 'P-value'. A 'Download' link is located at the bottom left, and a 'Show' button is at the bottom right.

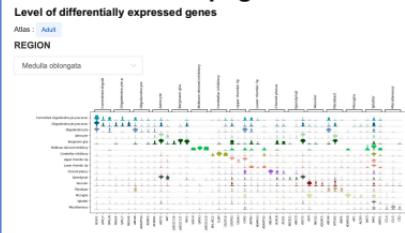
d Volcano plot of Markers



e Portrait page



DEG page



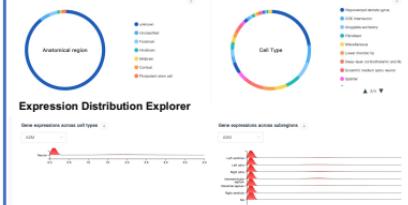
g Cell Sorting page

Sorting cells according to metadata or gene expression

A screenshot of the Microsoft Flow 'My Flows' page. At the top, there's a search bar and a 'Create flow' button. Below it, a 'Recent' section shows a flow named 'Flow 1' with a 'Get files from OneDrive' trigger and a 'Send an email' action. A 'Filters' section includes an 'Exclude' dropdown set to 'None', a 'Cell type' dropdown set to 'Table', and a 'Preview' button. The main area shows a step titled 'Step 1' with a placeholder box below it. On the right, there's an 'Add a step' button and a blue circular icon.

h Results of Cell Sorting

Data Description



Datasets page