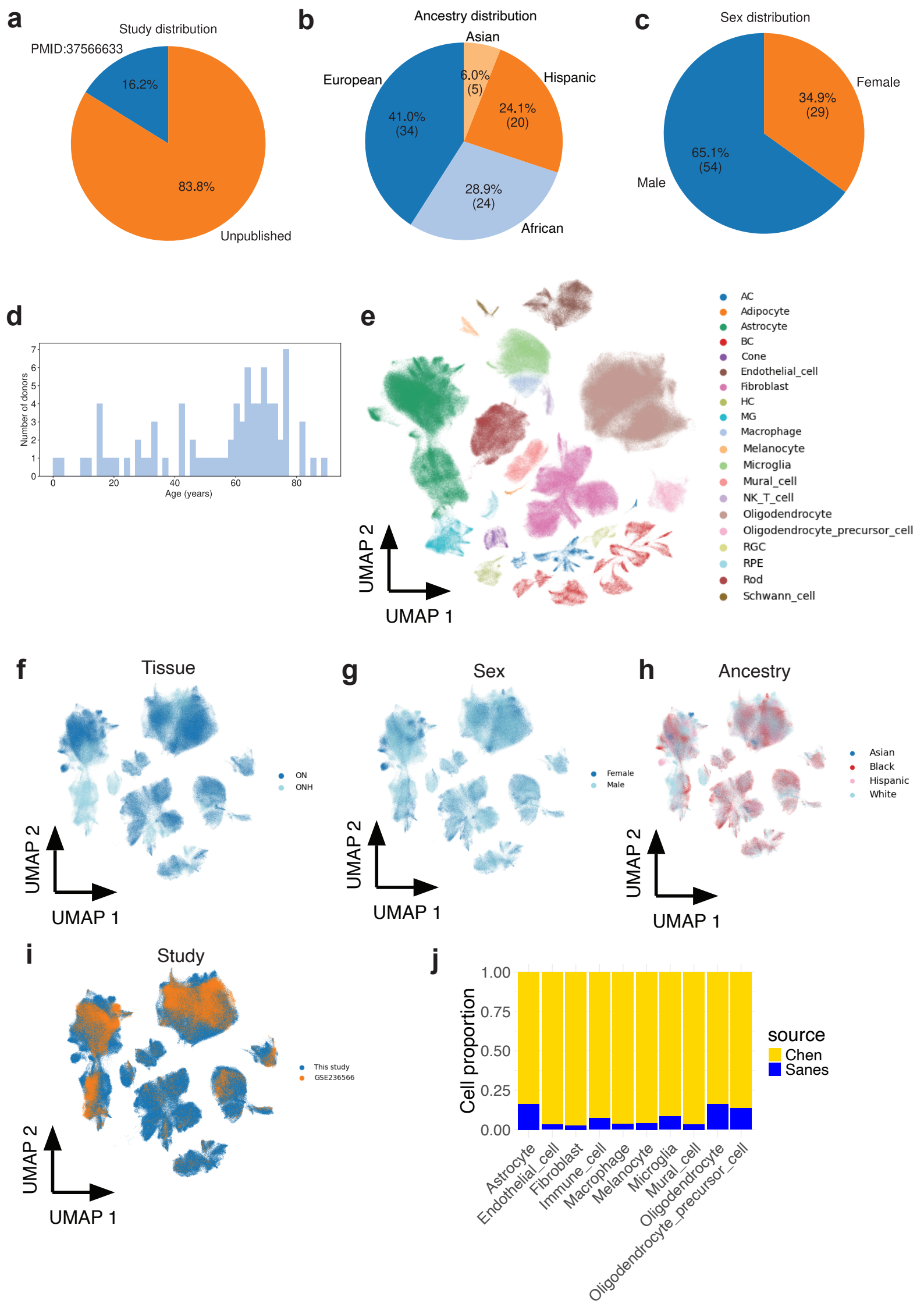
a
Study distribution
PMID:37566633
16.2%
83.8%
Unpublished
b
Ancestry distribution
Asian
European
Hispanic
6.0%
(5)
41.0%
(34)
24.1%
(20)
28.9%
(24)
African
c
Sex distribution
Female
34.9%
(29)
65.1%
(54)
Male
d
Number of donors
Age (years)
e
AC
Adipocyte
Astrocyte
BC
Cone
Endothelial_cell
Fibroblast
HC
MG
Macrophage
Melanocyte
Microglia
Mural_cell
NK_T_cell
Oligodendrocyte
Oligodendrocyte_precursor_cell
RGC
RPE
Rod
Schwann_cell
UMAP 2
UMAP 1
f
Tissue
ON
ONH
g
Sex
Female
Male
h
Ancestry
Asian
Black
Hispanic
White
i
Study
This study
GSE236566
j
Cell proportion
source
Chen
Sanes
Astrocyte
Endothelial_cell
Fibroblast
Immune_cell
Macrophage
Melanocyte
Microglia
Mural_cell
Oligodendrocyte
Oligodendrocyte_precursor_cell

Extended Data Figure 1. The QC matrix of major cell classes in the optic nerve
a, Pie chart showing the proportions of cells derived from different data sources. **b,** Pie chart showing the ancestry distribution of donors. **c,** Pie chart showing the sex distribution of donors. **d**, Histogram showing the age distribution of donors. **e,** UMAP of the transcriptomic cell atlas derived from snRNA-seq data, including major cell classes from both the retina and the optic nerve. Cells are colored by major cell classes. **f,** UMAP of the transcriptomic cell atlas derived from snRNA-seq data, including major cell classes from the optic nerve. Cells are colored by sample tissue sources. **g,** UMAP of the transcriptomic cell atlas derived from snRNA-seq data, including major cell classes from the optic nerve. Cells are colored by sex. **h,** UMAP of the transcriptomic cell atlas derived from snRNA-seq data, including major cell classes from the optic nerve. Cells are colored by ancestry. **i,** UMAP of the transcriptomic cell atlas derived from snRNA-seq data, including major cell classes from the optic nerve. Cells are colored by data source. **j**, Bar plot showing the distribution of data source across major cell classes. summarizing the cell abundance of each major cell class.