Supplementary Information for

## HUNTINGTON'S DISEASE CELLULAR PHENOTYPES ARE RESCUED NON-CELL AUTONOMOUSLY BY HEALTHY CELLS IN MOSAIC TELENCEPHALIC ORGANOIDS

Maura Galimberti, Maria R Nucera, Vittoria D Bocchi, Paola Conforti, Elena Vezzoli, Matteo Cereda, Camilla Maffezzini, Raffaele Iennaco, Andrea Scolz, Andrea Falqui, Chiara Cordiglieri, Martina Cremona, Ira Espuny-Camacho, Andrea Faedo, Dan P Felsenfeld, Thomas F Vogt, Valeria Ranzani, Chiara Zuccato, Dario Besusso and Elena Cattaneo

This file includes Supplementary Figs. 1 to 10 and Tables 1-2



**Supplementary Fig1** – **Telencephalic organoids protocol and quality controls** (A) Immunohistochemistry analyses of telencephalic organoids during differentiation. DIV 18, 35, and 60 for BIIITUBULIN and SOX2. Scale bars =100  $\mu$ m (B) Immunohistochemistry analyses of telencephalic organoids during differentiation. DIV 18 for NESTIN and KI67;DIV 35 for NESTIN and BLBP; DIV 60 for EBF1 and HOECHST; DIV 120 for SATB2 and HOECHST. Scale bars =100  $\mu$ m (C) q-PCR for MAP2, SNAP25, ASCL1, SIX3, TBR2, and SATB2 on CTRL organoids at DIV 0, 20, 35, 60, 90, and 120 of differentiation. (N = 3/4 independent biological replicates; error bars represent ± SEM) (D) Pseudo-colored scanning electron microscopy (SEM) images of internal part of CTRL (20CAG) organoids at DIV 60. Scale bars =5 $\mu$ m in lower magnification on the top and =1 $\mu$ m in higher magnification at the bottom (E) Transmission electron microscopy (TEM) images of synapses of CTRL (20CAG) organoids at DIV 60 with details of pre- and post- synaptic terminals and synaptic vesicles (SV). Scale bars =100m in lower magnification and =50nm in higher magnification (F) UMAP plots of scRNAseq analyses on CTRL (20CAG) and HD (56CAG) organoids at DIV 45 with louvain algorithm of each individual sample (pool of 10 organoids for each cell line, 2 cell lines per genotype) (H-I) Heatmap of gene expression of neuronal progressive maturation genes in each subpopulation of organoids at DIV 45 and DIV 120 (J-K) UMAP plots for specific genes of caudal brain regions (IRX2, GBX2, and EN2) at DIV 45 and DIV 120.



Fraction of cells (%) 20 40 60 80 100



**Supplementary Fig2** –**Telencephalic organoids comparison with human fetal data, other organoids protocols, and HD postmortem data (A)** Dotplot comparing our subpopulations from organoids at DIV 45 with human fetal cell types and tissues from Braun and colleagues.<sup>29</sup> (**B**) Dotplot comparing our subpopulations from organoids at DIV 120 with human fetal cell types and tissues from Braun et al.<sup>29</sup> (**C**) Heatmap comparing our subpopulations from both DIV 45 and DIV 120 organoids with published organoid protocols from the Human Neural Organoid Cell Atlas (HNOCA)<sup>30</sup> performed with the CellHint tool<sup>85</sup> (**D**) Venn diagram illustrating DEGs between CTRLs and HD organoids, indicating which are in common between DIV 45, DIV 120, and HD human postmortem brain tissues from Lee and colleagues.<sup>7</sup>





60° - 90°

PH3 KI67 HOECHST

6

30

%PH3\*/Ki67 20 **Supplementary Fig3– DEGs in HD organoids and cell cycle alterations (A-B)** Top GO terms of the upregulated and dowregulated genes in HD organoids, common between DIV 45 and 120 (C) UMAP and boxplot of module scores of DEGs belonging to "regulation of cell cycle" which is upregulated in HD organoids. Abbreviations: AP=Apical Progenitors; BP=Basal Progenitors; IN=Inhibitory Neurons; CP=Cycling Progenitors; DP=Dorsal Progenitors; DN=Dorsal Neurons; VP=Ventral Progenitors; VN=Ventral Neurons (**D**) Immunohistochemistry analyses and scheme of mitotic spindle in organoids at DIV 35 for pVIMENTIN and PERICENTRIN. Division are horizontal (angle between 0 and 30 degree), oblique (30-60) and vertical (60-90). Scale bar =5µm (**E**) Percentage of cells in each division (manual measurement with ImageJ. Unpaired t test, Welch's correction,\*\*p<0,01; \*\*\*p<0,001. N ≥ 100 cells from 10 organoids of 3/4 independent biological replicates) (**F**) Immunohistochemistry analyses of CTRL (parental and 20CAG) and HD (48, 56 and 72 CAG) organoids at DIV 35 for PH3 and KI67. Scale bar =30µm (**G**) Percentage of PH3+ and KI67+ cells (automatic counting with Cell Profiler. Anova One Way, Bonferroni post test, \*p<0,05, \*\* p< 0,01, \*\*\*\*p<0,001. N=12 organoids from 3 independent biological replicates) (**H**) Immunohistochemistry analyses of cells in active cell cycle (EdU+KI67+ orange arrowheads) and cells that have exited the cell cycle (EdU+KI67- orange arrows). Scale bar =5µm (**I**) Cell cycle exit ratio at DIV 45 (N cells EdU+KI67- / N cells EdU+) of CTRL (20CAG) and HD (48, 56, and 72 CAG) organoids (automatic quantification with Cell Profiler. Anova One Way, Bonferroni post test, \*p<0,01. N= 5/8 organoids at DIV 35 (manual measurement. Anova One Way, Bonferroni post test, \*p<0,01. N= 5/8 organoids at DIV 35 (manual measurement. Anova One Way, Bonferroni post test. \*p<0,001. N= 10 organoids from 4 independent biological replicates).



**Supplementary Fig4** – **Cytoarchitectural organization defects in HD organoids** (A) Immunohistochemistry analyses of CTRL (parental and 20CAG) and HD (48, 56 and 72 CAG) organoids at DIV 35 for PALS1. Scale bar =100 $\mu$ m (B) Numbers of VZ-like structures per area of each organoids' slice at DIV 35 (Manual counting. Anova One Way, Bonferroni post test. \*\*p<0,01; \*\*\*\*p<0,0001. N  $\geq$  30 slices for each cell line, from 10 organoids of 4 independent biological replicates) (C) Immunohistochemistry analyses of CTRL (20CAG) and HD (48, 56 and 72 CAG) organoids at DIV 35 for NESTIN, VIMENTIN, and SOX2. Scale bar =30 $\mu$ m (D) Area of the VZ-like structures lumens in CTRL (parental and 20CAG) and HD (48, 56 and 72 CAG) organoids at DIV 35 of differentiation (Manual measurement. Anova One Way, Bonferroni post test, \*\*p<0,01; \*\*\*\*p<0,001. N  $\geq$  30 structures, from 12 organoids of 2/3 independent biological replicates.) (E) Immunohistochemistry analyses of CTRL (20CAG) and HD (48, 56 and 72 CAG) organoids at DIV 60 for ARL13B. Scale bar =10<sup>°</sup>m (F-G) Quantification of primary cilia length (F) and primary cilia density (G) calculated as cilia's area (ARL13b) over the area of the lumens (ZO1) in CTRL (parental and 20CAG) and HD (48, 56 and 72 CAG) organoids at DIV 60 for ARL13B. Scale bar =10<sup>°</sup>m (F-G) Quantification of primary cilia length (F) and primary cilia density (G) calculated as cilia's area (ARL13b) over the area of the lumens (ZO1) in CTRL (parental and 20CAG) and HD (48, 56 and 72 CAG) organoids at DIV 60 for ARL13B. Scale bar =10<sup>°</sup>m (F-G) Quantification of primary cilia length (F) and primary cilia density organoids of 2/3 independent biological replicates.) (H) Immunohistochemistry analyses of CTRL (20CAG) cortical organoids at DIV 60 (Automatic quantification with NIS software. Anova One Way, Bonferroni post test, \*p<0,05; \*\*\*\*p<0,001. N = 15-20 structures from 8/12 organoids of 2/3 independent biological replicates for each cell line) (H) Immunohistochemistry analyses of CTRL (20CAG) cortical organoids at DIV



**Supplementary Fig5** – **Quality controls of mosaic organoids (A)** Experimental scheme for the generation of GFP and TOM clones of both CTRL 20CAG and HD 56CAG cell lines. Created with BioRender.com, released under a Creative Commons Attribution-NonCommercial-NoDerivs 4.0 International license (B) Q-banding karyotype analyses of GFP and TOM clones of both CTRL 20CAG and HD 56CAG cell lines in metaphase (C) Immunohistochemistry analyses of GFP and TOM clones of both CTRL 20CAG and HD 56CAG cell lines in pluripotency for GFP, TOM, OCT4, and HOECHST. Scale bar =100 $\mu$ m (D) Immunohistochemistry analyses of organoids from 20CAG-GFP line at DIV 60 for MAP2, PALS1, GSX2, ASCL1, GFP, and HOECHST. Scale bar =100 $\mu$ m (E) Live imaging pictures of mosaic organoids at DIV 18 to check for maintenance of GFP or TOM fluorescence. Scale bar =150 $\mu$ m (F) Immunohistochemistry analyses of mosaic organoids composed of 20CAG-GFP and 56CAG-TOM at DIV 60 for GFP, TOM and N-CADHERIN showing mosaicism of cell lines in the VZ-like structures. Scale bar =30 $\mu$ m.





20cag GFP\_co



D

0.8

0.6

0.

0.2

0.0

KEGG Huntington Disease gene set score













Supplementary Fig6 – scRNAseq characterization of mosaic organoids (A) Violin plot of gene expression of selective markers per cell subpopulation at DIV 120 (B) UMAP plots of scRNAseq analyses on mosaic organoids at DIV 120 with louvain algorithm for specific markers of progenitors (NES, VIM), neurons (DCX, SNAP25), dorsal identity (EOMES, NEUROD2), and ventral identity (GAD2, DLX6) (C) UMAP plots of scRNAseq analyses on mosaic organoids at DIV 120 of each cell line clone: 20CAG-GFP\_mono, 20CAG-GFP\_co, 20CAG-TOM\_mono, 20CAG-TOM\_co, 56CAG-GFP\_mono, 56CAG-GFP\_co, 56CAG-TOM\_mono, 56CAG-TOM\_co (pool of 10 organoids per culture samples) (D) Boxplot showing the gene set score for genes belonging to the KEGG pathway in mosaic organoids at bulk level (E) Boxplot illustrating the gene set score for genes belonging to the KEGG pathway in mosaic organoids at bulk level (E) Boxplot illustrating the gene set score for genes belonging to the KEGG pathway in mosaic organoids at bulk level (E) Boxplot illustrating the gene set score for genes belonging to the KEGG pathway in mosaic organoids at bulk level (E) Boxplot illustrating the gene set score for genes belonging to the KEGG pathway in mosaic organoids at bulk level (E) Boxplot illustrating the gene set score for genes belonging to the KEGG pathway in mosaic organoids at bulk level (E) Boxplot illustrating the gene set score for genes belonging to the KEGG pathway in mosaic organoids at single cell level

А





**Supplementary Fig3– DEGs in HD organoids and cell cycle alterations (A-B)** Top GO terms of the upregulated and dowregulated genes in HD organoids, common between DIV 45 and 120 (C) UMAP and boxplot of module scores of DEGs belonging to "regulation of cell cycle" which is upregulated in HD organoids. Abbreviations: AP=Apical Progenitors; BP=Basal Progenitors; IN=Inhibitory Neurons; CP=Cycling Progenitors; DP=Dorsal Progenitors; DN=Dorsal Neurons; VP=Ventral Progenitors; VN=Ventral Neurons (**D**) Immunohistochemistry analyses and scheme of mitotic spindle in organoids at DIV 35 for pVIMENTIN and PERICENTRIN. Division are horizontal (angle between 0 and 30 degree), oblique (30-60) and vertical (60-90). Scale bar =5µm (**E**) Percentage of cells in each division (manual measurement with ImageJ. Unpaired t test, Welch's correction,\*\*p<0,01; \*\*\*p<0,001. N ≥ 100 cells from 10 organoids of 3/4 independent biological replicates) (**F**) Immunohistochemistry analyses of CTRL (parental and 20CAG) and HD (48, 56 and 72 CAG) organoids at DIV 35 for PH3 and KI67. Scale bar =30µm (**G**) Percentage of PH3+ and KI67+ cells (automatic counting with Cell Profiler. Anova One Way, Bonferroni post test, \*p<0,05, \*\* p< 0,01, \*\*\*\*p<0,001. N=12 organoids from 3 independent biological replicates) (**H**) Immunohistochemistry analyses of cells in active cell cycle (EdU+KI67+ orange arrowheads) and cells that have exited the cell cycle (EdU+KI67- orange arrows). Scale bar =5µm (**I**) Cell cycle exit ratio at DIV 45 (N cells EdU+KI67- / N cells EdU+) of CTRL (20CAG) and HD (48, 56, and 72 CAG) organoids (automatic quantification with Cell Profiler. Anova One Way, Bonferroni post test, \*p<0,01. N = 5/8 organoids at DIV 35 (manual measurement. Anova One Way, Bonferroni post test, \*p<0,01. N = 5/8 organoids at DIV 35 (manual measurement. Anova One Way, Bonferroni post test. \*p<0,01. N = 5/8 organoids at DIV 35 (manual measurement. Anova One Way, Bonferroni post test. \*p<0,01. N = 10 organoids from 4 independent biological replicates).



Supplementary Fig8 – GABAergic neurons and synapse density recovery in HD\_co grown with CTRL cells (A) Immunohistochemistry analyses of mosaic organoids at DIV 120 for GABA, GFP, TOM and HOECHST. Scale bar =100 $\mu$ m. (B) GSEA for terms linked to synapses in ventral neurons of HD\_mono compared to CTRL\_mono. (C) Immunohistochemistry analyses of mosaic organoids at DIV 120 for HOMER1, BASSOON, GFP, TOM and HOECHST. Scale bar =25 $\mu$ m (D) Immunohistochemistry analyses of mosaic organoids at DIV 120 for HOMER1, MAP2 and HOECHST. Scale bar =25 $\mu$ m (E) Automatic quantification of Map2 positive area (on top) and for Homer1 amount over Map2 area (on the bottom) (N=4 organoids from 1 independent biological replicates. error bars represent ± SEM. Anova One Way, Bonferroni post test. \*p<0.05).

В

## GO of Unchanged DEGs in Ventral Neurons



**Supplementary Fig9** – **The unchanged DEGs in HD\_unravel cell-autonomous pathways** (A) Results of GO analysis performed with R package topGO for the Unchanged DEGs (not rescued) in ventral neurons (B) Heatmap of selected genes from top DEGs which show non-cell-autonomous rescue (BTG2, RND3, GAD1, GAD2, DLX1, DLX2, ARX, SLC32A1) or not rescued (PCH17, NNAT, CNTNAP2, EPS8L2, ROBO1) in HD\_co (C) Immunohistochemistry analyses of CTRL, HD and co-culture mosaic organoids at DIV 35 for PALS1 and HOECHST to visualize VZ-like structures. Scale bar =100µm (D) Quantification of VZ-like structures number per slice, and area of VZ-like structures lumens (Manual measurement. N  $\geq$  30 slices for each condition, from 10 organoids of 3 independent biological replicates, error bars represent  $\pm$  SEM. Anova One Way, Bonferroni post test. \*p<0,05; \*\*\*p<0,001; \*\*\*\*p<0,001) (E) Transcription Factor activity inference analysis performed in pseudo-bulk with Decoupler for the most active TFs in HD\_mono compared to CTRL\_mono and HD\_co compared to CTRL\_mono (F) Immunohistochemistry analyses of mosaic organoids (Automatic quantification of CASPASE-3 and HOECHST. Scale bar = 30µm (G) Quantification of CASPASE3 positive area (from slices for immunohistochemistry) in CTRL, HD and co-culture mosaic organoids (Automatic quantification. N  $\geq$  30 slices for each condition, from 5 organoids of 1 independent biological replicate, error bars represent  $\pm$  SEM. Anova One Way, Tukey post test. \*p<0,05).



Supplementary Fig10 – Progenitors communications pathways rescued in mosaic organoids (A) CellChat circle plot showing PTN signalling network of communications between all subpopulations and conditions (B) Box plots of gene expression for PTN ligand and his receptors NCL and PTPRZ1. (C) CellChat circle plot showing JAM signalling network of communications between all subpopulations and conditions (D) Box plots of gene expression for JAM3 and JAM2 transmembrane ligand-receptor (E) CellChat circle plot showing CDH2 signalling network of communications between all subpopulations and condition (F) Box plot of gene expression for CDH2 transmembrane ligand-receptor (G) CellChat bubble plots of gene expression for couples of ligands and receptors looking at communication only between CTRL\_co progenitors and HD\_co neurons (at the center) compared to similar communications between CTRL\_mono progenitors and CTRL\_mono neurons (on the left) and between HD\_mono neurons (on the right). Abbreviations: DP=Dorsal Progenitors; DN=Dorsal Neurons; VP=Ventral Progenitors; VN=Ventral Neurons

A)

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CELL	CTRL/HD	NAME OF THE LINE	CAG	ID
hESC-Rues2	CTRL	parental	22-20 cag	CHDI-90001539
hESC-Rues2	CTRL	20cag cl30	22-20 cag	CHDI-90001585
hESC-Rues2	HD	48cag cl20.4	48-20 cag	CHDI-90001587
hESC-Rues2	HD	56cag cl21.1	56-20 cag	CHDI-90001589
hESC-Rues2	HD	72cag cl12	72-20 cag	CHDI-90002877-1

B)

7		
NAME	FW SEQUENCE (5'-3')	REV SEQUENCE (5'-3')
ASCL1	GTCCTGTCGCCCACCATCTC	CCCTCCCAACGCCACTGAC
DLX2	ACGCTCCCTATGGAACCAGTT	TCCGAATTTCAGGCTCAAGGT
DLX6	TACCTCCAGTCCTACCACAAC	AATAAATGGTCCGAGGCTTCCG
GAD1	GAGGGAACTAGCGAGAACGA	ACCAGGTATCGTACGTTGTGG
MAP2	CAAATGTGGCTCTCTGAAGAACA	GGGCCTTTTCTTTGAAATCTAGTTT
SATB2	CCTCCTCCGACTGAAGACAG	TGGTCTGGGTACAGGCCTAC
SIX3	AGGTCAGTCCATGGTATTCC	CAGAAGTATGGAGCGGTGGT
SNAP25	TACACAGAATCGCCAGATCG	ACCACTTCCCAGCATCTTTG
SP9	CCTGCTATGGCCACGTCTAT	GAGAGACTGGAGCCGAGGTT
TBR2	CAGCGCCACCAAACTGAGAT	CGAACACATTGTAGTGGGCAG

Supplementary Table 1 – Tables relative to materials used in the study (A) table listing used cell lines (B) table listing used primers.

A)	Exa	ict p-values	s (FIG 4E)	ventral p	progenitors			dorsal p	rogenitors			ventral	neurons			dorsal r	neurons	
			CTRL_mono	CTRL_co	HD_co	HD_mono	CTRL_mono	CTRL_co	HD_co	HD_mono	CTRL_mono	CTRL_co	HD_co	HD_mono	CTRL_mono	CTRL_co	HD_co	HD_mono
8		neurons	0.000894722	0.00386106	1	1.47644e-11	6.1772e-212	3.3013e-213	8.353e-222	0	3.3095e-179	6.9307e-193	2.9265e-187	0.023039947	1	1	0.00671859	0
<u>ال</u>	8_	progenitors	3.666e-49	3.65162e-54	2.5425e-40	1	1	1	0.004660588	2.3195e-127	8.9668e-230	1.2732e-234	2.9275e-235	1.00162e-39	1.4528e-198	3.3013e-213	5.8803e-216	2.70656e-62
Ë.	ant:	neurons	2.43153e-69	1.81/1e-6/	6.34561e-44	1.83149e-34	6.4628e-235	1.2/32e-234	1.1822e-232	5.9555e-256	1	1 91710 67	0.02/016/04	4.55538e-22	9.0748e-198	6.9307e-193	3./344e-16/	U 7 10000 127
213		neurons	0 022564757	0.076726602	1	1.60753e-10	4.15102e-51 9.7389e-197	1 4528e-198	9.41229e-00 1 8115e-208	4.4461e-151 4.5684e-308	2.09923e-04 3.3544e-184	9.0748e-198	2.00470E-09	0.101713588	1	1	4 08459e-05	0
E S	ő	progenitors	2.54356e-46	4.15162e-51	2.37982e-38	1	1	1	7.16432e-05	4.5208e-130	4.3359e-230	6.4628e-235	1.1288e-235	7.39054e-39	9.7389e-197	6.1772e-212	1.514e-214	2 532570 67
ᆔ`	a l	neurons	2.77958e-66	2.89923e-64	9.56211e-42	2.11275e-33	4.3359e-230	8.9668e-230	7.5859e-229	3.5477e-255	1	1	0.232508801	1.5022e-20	3.3544e-184	3.3095e-179	6.0242e-155	0
5.	-Yel	progenitors	1	1	1	0.000722071	2.54356e-46	3.666e-49	5.37372e-63	1.3189e-148	2.77958e-66	2.43153e-69	4.03716e-61	0.057411311	0.022564757	0.000894722	5.54621e-06	7.3038e-132
0	la	neurons	5.54621e-06	3.40455e-05	1	5.15036e-13	1.514e-214	5.8803e-216	1.5142e-224	0	6.0242e-155	3.7344e-167	4.7208e-155	0.962625662	4.08459e-05	0.00671859	1	0
	<u> </u>	peurope	5.3/3/2e-63	9.41229e-68	6.07896e-50	0.024994759	7.16432e-05	0.004660588	1	1.435466-93	7.5859e-229	1.1822e-232	1.1749e-233	2.64326e-45	1.8115e-208	8.353e-222	1.5142e-224	4.8/23/e-32
푀	entr	progenitors	4.037108-01	2.004708-39	4.244018-30	5 66554e-05	2 37982e-38	2.9275e-235	6.07896e-50	2 9193e-112	9.56211e-42	6.34561e-44	4 24461e-36	4.0304e-10	1.000000-192	2.9200e-107	4.72066-100	0 1 82528e-94
0	ns ≥ l	neurons	7.3038e-132	7.1909e-137	1.82528e-94	5.34122e-09	2.53257e-67	2.70656e-62	4.87237e-32	1.11963e-47	0	0.040010 44	0	1.07249e-69	0	0	0	1
		progenitors	1.3189e-148	4.4481e-151	2.9193e-112	9.0293e-22	4.5208e-130	2.3195e-127	1.43546e-93	1	3.5477e-255	5.9555e-256	1.837e-255	1.91189e-80	4.5684e-308	0	0	1.11963e-47
2	Ita	neurons	0.057411311	0.151713589	1	6.82113e-08	7.39054e-39	1.00162e-39	2.64326e-45	1.91189e-80	1.5022e-20	4.55538e-22	4.0364e-16	1	0.005782145	0.023039947	0.962625662	1.07249e-69
Ξļ	ē.	progenitors	0.000722071	0.000208209	5.66554e-05	1	1	1	0.024994759	9.0293e-22	2.11275e-33	1.83149e-34	1.54352e-33	6.82113e-08	1.60753e-10	1.47644e-11	5.15036e-13	5.34122e-09
В	) E×	act p-value	es (FIG 4F)	ventral r	rogenitore			doreal p	rogenitore									
							CTDL mana						neurons			dorsai r	neurons	
- 13		Deurope	2 24907o 25	CIRL_00	HD_C0	HD_III0II0		LIRL_CO	HD_00	HD_III0II0	CTRL_1110110	2 259270 51	HD_C0	HD_III0II0		LIRL_CO	HD_00	HD_III0II0
8		progenitors	9.93366e-27	1 20921e-29	7.63606e-08	1 22675e-16	1	1	3.05231e-09	2.4007e-136 7 16055e-92	1 23191e-33	3.85925e-35	1 0082e-35	5 42281e-15	1	1	1	4 1595e-115
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		neurons	1	1.200210-20	0.024371982	3.65801e-24	8.70069e-33	3.85925e-35	4.23583e-61	4.5201e-133	1	1	1.00020-00	5.25692e-34	1.46577e-50	3.25837e-51	3.97826e-44	2.2499e-184
5	lent	progenitors	1	1	0.054388654	5.98605e-33	3.20996e-27	1.20921e-29	1.83921e-57	3.7393e-143	1	1	1	1.90618e-40	6.91554e-38	5.6811e-39	1.77443e-34	2.1183e-174
SI	2g	neurons	3.54237e-34	6.91554e-38	1.07496e-08	6.92192e-20	1	1	2.44183e-17	2.8352e-152	2.77752e-48	1.46577e-50	1.54625e-52	5.26632e-20	1	1	1	3.7601e-261
Ĕ	8_	progenitors	3.79002e-24	3.20996e-27	9.92007e-07	7.2565e-17	1	1	1.65907e-10	7.6854e-93	2.08624e-31	8.70069e-33	1.55742e-32	1.94142e-15	1	1	1	2.8254e-117
뢴	lite	neurons	1	1	0.045216054	3.15577e-24	2.08624e-31	1.23191e-33	2.20913e-59	1.7184e-132	1	1	1	1.03659e-33	2.77752e-48	7.92062e-49	3.90327e-42	4.3481e-184
ΰļ.	-9 F	neurone	7 254220 21	1 774420 24	0.237469082	4.41166-31	3.79002e-24	9.933008-27	2.08//3e-53	1.76716-135	1	1	1	7.81976-38	3.542376-34	3.34807e-35	1.354336-31	1.93056-164
0 2		progenitors	2 08773e-53	1.77443e-34 1.83921e-57	6 64692e-24	3 67846e-08	1 65907e-10	1 3 05231e-09	1.490008-19	1 99316e-43	2 20913e-59	4 23583e-61	2.411976-40 1.80926e-68	0.000188971	2 44183e-17	1 41463e-17	1 7 49605e-19	5.25116e-47
		neurons	1	1	0.142173385	1.92916e-29	1.55742e-32	1.0082e-35	1.80926e-68	3.7528e-164	1	1	1	3.84017e-39	1.54625e-52	5.94173e-54	2.41197e-46	6.0942e-228
-	/en	progenitors	0.237469082	0.054388654	1	1.33294e-23	9.92007e-07	7.63606e-08	6.64692e-24	3.60226e-84	0.045216054	0.024371982	0.142173385	2.47247e-24	1.07496e-08	5.67606e-09	1.13287e-07	1.31242e-91
2		neurons	1.9305e-164	2.1183e-174	1.31242e-91	1	2.8254e-117	4.1595e-115	5.25116e-47	0.247404235	4.3481e-184	2.2499e-184	6.0942e-228	1	3.7601e-261	1.356e-270	5.1095e-269	1
E C	<u>8_</u>	progenitors	1.7671e-135	3.7393e-143	3.60226e-84	1	7.6854e-93	7.16055e-92	1.99316e-43	1	1.7184e-132	4.5201e-133	3.7528e-164	0.297542532	2.8352e-152	2.4007e-158	5.4736e-158	0.247404235
의	lit.	neurons	7.8197e-38	1.90618e-40	2.47247e-24	1	1.94142e-15	5.42281e-15	0.000188971	0.297542532	1.03659e-33	5.25692e-34	3.84017e-39	1	5.26632e-20	9.52045e-21	2.05577e-21	1
-	21	Jogenitors	4.41108-31	3.900008-33	1.552946-25	1	7.20008-17	1.220/58-10	3.070408-00	I	3.15577e-24	3.0360 Te-24	1.929106-29		0.921926-20	0.304316-21	4.402396-21	
D)	) Ex	act p-value	es (FIG 4H)	CTR	L_co			CTRL	mono			HD	00			HD r	mono	
					-		<u> </u>				·		_00		<u> </u>			
			dor	sal	ven	tral	dor	sal	ver	tral	do	rsal	_oo	tral	do	rsal	ven	itral
-	_ ,		dor	rsal	ven	tral progenitors	dor	sal progenitors	ver	ntral progenitors	dor neurons	progenitors	ver	tral progenitors	do	rsal	ven	tral
8	ursal	neurons	doi neurons 1	rsal progenitors 1.63602e-88	ven neurons 9.141e-108	tral progenitors 7.9395e-165	dor neurons 1	sal progenitors 2.2775e-97	ver neurons 3.0703e-102	progenitors 5.976e-161	dor neurons 0.003286574	rsal progenitors 4.45928e-41		tral progenitors 1.09319e-91	do neurons 1	progenitors 2.96169e-67	ven neurons 0.013178984	progenitors 2.43426e-05
RL_co	al al	neurons progenitors	dor neurons 1 1.63602e-88 9 141e-108	rsal progenitors 1.63602e-88 1 0.007752188	ven neurons 9.141e-108 0.007752188	tral progenitors 7.9395e-165 9.04646e-27 3.67513e-08	dor neurons 1 5.30892e-83 1 3825e-102	sal progenitors 2.2775e-97 1 0.022821389	ver neurons 3.0703e-102 0.027366517	tral progenitors 5.976e-161 6.9011e-25 4.99186e-07	dor neurons 0.003286574 2.35543e-63 1.81735e-82	rsal progenitors 4.45928e-41 0.000459166 2.55215e-13		tral progenitors 1.09319e-91 1.28378e-08	doi neurons 1 1.04541e-79	rsal progenitors 2.96169e-67 1 2.76115e-05	ven neurons 0.013178984 9.62466e-07 9.50612e-11	tral progenitors 2.43426e-05 0.299067337 0.001769234
CTRL_co	entral	neurons progenitors neurons progenitors	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165	rsal progenitors 1.63602e-88 1 0.007752188 9.04646e-27	ven neurons 9.141e-108 0.007752188 1 3.67513e-08	tral progenitors 7.9395e-165 9.04646e-27 3.67513e-08 1	dor neurons 1 5.30892e-83 1.3825e-102 8.9414e-160	sal progenitors 2.2775e-97 1 0.022821389 1.71915e-27	ver neurons 3.0703e-102 0.027366517 1 1.06906e-08	tral progenitors 5.976e-161 6.9011e-25 4.99186e-07 1	dor neurons 0.003286574 2.35543e-63 1.81735e-82 4.0332e-138	rsal progenitors 4.45928e-41 0.000459166 2.55215e-13 2.40911e-44	ver neurons 2.42524e-93 0.629832969 1 9.60449e-11	tral progenitors 1.09319e-91 1.28378e-08 1 0.152639626	doi neurons 1 1.04541e-79 1.9437e-99 4.2672e-157	rsal progenitors 2.96169e-67 1 2.76115e-05 1.69207e-31	ven neurons 0.013178984 9.62466e-07 9.50612e-11 2.20952e-29	tral progenitors 2.43426e-05 0.299067337 0.001769234 9.78288e-16
DIO CTRL_CO	ventral	neurons progenitors neurons progenitors neurons	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 1	sal progenitors 1.63602e-88 1 0.007752188 9.04646e-27 5.30892e-83	ven neurons 9.141e-108 0.007752188 1 3.67513e-08 1.3825e-102	tral progenitors 7.9395e-165 9.04646e-27 3.67513e-08 1 8.9414e-160	dor neurons 1 5.30892e-83 1.3825e-102 8.9414e-160 1	sal progenitors 2.2775e-97 1 0.022821389 1.71915e-27 2.77755e-91	ver neurons 3.0703e-102 0.027366517 1 1.06906e-08 6.37336e-97	tral progenitors 5.976e-161 6.9011e-25 4.99186e-07 1 3.2764e-156	doi neurons 0.003286574 2.35543e-63 1.81735e-82 4.0332e-138 0.421733484	rsal progenitors 4.45928e-41 0.000459166 2.55215e-13 2.40911e-44 8.99096e-37	ver <u>neurons</u> 2.42524e-93 0.629832969 1 9.60449e-11 7.45943e-88	tral progenitors 1.09319e-91 1.28378e-08 1 0.152639626 4.42393e-88	doi neurons 1 1.04541e-79 1.9437e-99 4.2672e-157 1	rsal progenitors 2.96169e-67 1 2.76115e-05 1.69207e-31 3.7082e-62	ven neurons 0.013178984 9.62466e-07 9.50612e-11 2.20952e-29 0.099174573	tral progenitors 2.43426e-05 0.299067337 0.001769234 9.78288e-16 0.000155363
mono CTRL_co	l ventral	neurons progenitors neurons progenitors neurons progenitors	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 1 2.2775e-97	sal progenitors 1.63602e-88 1 0.007752188 9.04646e-27 5.30892e-83 1	ven neurons 9.141e-108 0.007752188 1 3.67513e-08 1.3825e-102 0.022821389	tral progenitors 7.9395e-165 9.04646e-27 3.67513e-08 1 8.9414e-160 1.71915e-27	dor neurons 1 5.30892e-83 1.3825e-102 8.9414e-160 1 2.77755e-91	sal progenitors 2.2775e-97 1 0.022821389 1.71915e-27 2.77755e-91 1	ver neurons 3.0703e-102 0.027366517 1 1.06906e-08 6.37336e-97 0.064114638	tral progenitors 5.976e-161 6.9011e-25 4.99186e-07 1 3.2764e-156 8.83104e-26	dor neurons 0.003286574 2.35543e-63 1.81735e-82 4.0332e-138 0.421733484 3.15033e-70	rsal progenitors 4.45928e-41 0.000459166 2.55215e-13 2.40911e-44 8.99096e-37 7.07641e-05	ver neurons 2.42524e-93 0.629832969 1 9.60449e-11 7.45943e-88 1	tral progenitors 1.09319e-91 1.28378e-08 1 0.152639626 4.42393e-88 6.88963e-09	do neurons 1 1.04541e-79 1.9437e-99 4.2672e-157 1 6.91285e-88	rsal progenitors 2.96169e-67 1 2.76115e-05 1.69207e-31 3.7082e-62 1	ven neurons 0.013178984 9.62466e-07 9.50612e-11 2.20952e-29 0.099174573 1.05733e-07	tral progenitors 2.43426e-05 0.299067337 0.001769234 9.78288e-16 0.000155363 0.134743369
RL_mono CTRL_co	uorsai uorsai htral ventral	neurons progenitors neurons progenitors neurons progenitors neurons	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 1 2.2775e-97 3.0703e-102	sal progenitors 1.63602e-88 1 0.007752188 9.04646e-27 5.30892e-83 1 0.027366517	ven neurons 9.141e-108 0.007752188 1 3.67513e-08 1.3825e-102 0.022821389 1	tral progenitors 7.9395e-165 9.04646e-27 3.67513e-08 1 8.9414e-160 1.71915e-27 1.06906e-08	dor neurons 1 5.30892e-83 1.3825e-102 8.9414e-160 1 2.77755e-91 6.37336e-97	sal progenitors 2.2775e-97 1 0.022821389 1.71915e-27 2.77755e-91 1 0.064114638	ver neurons 3.0703e-102 0.027366517 1 1.06906e-08 6.37336e-97 0.064114638 1	tral progenitors 5.976e-161 6.9011e-25 4.99186e-07 1 3.2764e-156 8.83104e-26 1.70704e-07	doi neurons 0.003286574 2.35543e-63 1.81735e-82 4.0332e-138 0.421733484 3.15033e-70 4.97531e-78	rsal progenitors 4.45928e-41 0.000459166 2.55215e-13 2.40911e-44 8.99096e-37 7.07641e-05 6.87894e-12	ver neurons 2.42524e-93 0.629832969 1 9.60449e-11 7.45943e-88 1 1	tral progenitors 1.09319e-91 1.28378e-08 1 0.152639626 4.42393e-88 6.88963e-09 0.865286437	doi neurons 1 1.04541e-79 1.9437e-99 4.2672e-157 1 6.91285e-88 4.09103e-94	rsal progenitors 2.96169e-67 1 2.76115e-05 1.69207e-31 3.7082e-62 1 0.000138736	ven neurons 0.013178984 9.62466e-07 9.50612e-11 2.20952e-29 0.099174573 1.05733e-07 3.44687e-10	tral progenitors 2.43426e-05 0.299067337 0.001769234 9.78288e-16 0.000155363 0.134743369 0.003201864
CTRL_mono_CTRL_co	ventral ventral	neurons progenitors neurons progenitors neurons progenitors progenitors	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 1 2.2775e-97 3.0703e-102 5.976e-161	sal progenitors 1.63602e-88 1 0.007752188 9.04646e-27 5.30892e-83 1 0.027366517 6.9011e-25	ven neurons 9.141e-108 0.007752188 1 3.67513e-08 1.3825e-102 0.022821389 1 4.99186e-07	tral progenitors 7.9395e-165 9.04646e-27 3.67513e-08 1 8.9414e-160 1.71915e-27 1.06906e-08 1	dor neurons 1 5.30892e-83 1.3825e-102 8.9414e-160 1 2.77755e-91 6.37336e-97 3.2764e-156	sal progenitors 2.2775e-97 1 0.022821389 1.71915e-27 2.77755e-91 1 0.064114638 8.83104e-26	ver neurons 3.0703e-102 0.027366517 1 1.06906e-08 6.37336e-97 0.064114638 1 1.70704e-07	tral progenitors 5.976e-161 6.9011e-25 4.99186e-07 1 3.2764e-156 8.83104e-26 1.70704e-07 1 0.0000 400	doi neurons 0.003286574 2.35543e-63 1.81735e-82 4.0332e-138 0.421733484 3.15033e-70 4.97531e-78 2.2888e-134	rsal progenitors 4.45928e-41 0.000459166 2.55215e-13 2.40911e-44 8.99096e-37 7.07641e-05 6.87894e-12 3.86352e-42	ver neurons 2.42524e-93 0.629832969 1 9.60449e-11 7.45943e-88 1 1 2.53478e-09	tral progenitors 1.09319e-91 1.28378e-08 1 0.152639626 4.42393e-88 6.88963e-09 0.865286437 0.60786628	doi neurons 1 1.04541e-79 1.9437e-99 4.2672e-157 1 6.91285e-88 4.09103e-94 1.3237e-153	rsal progenitors 2.96169e-67 1 2.76115e-05 1.69207e-31 3.7082e-62 1 0.000138736 1.59481e-29	ven neurons 0.013178984 9.62466e-07 9.50612e-11 2.20952e-29 0.099174573 1.05733e-07 3.44687e-10 3.84086e-28	tral progenitors 2.43426e-05 0.299067337 0.001769234 9.78288e-16 0.000155363 0.134743369 0.003201864 4.75121e-15
20 CTRL mono CTRL co	ventral ventral	neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 1 2.2775e-97 3.0703e-102 5.976e-161 0.003286574	sal progenitors 1.63602e-88 1 0.007752188 9.04646e-27 5.30892e-83 1 0.027366517 6.9011e-25 2.35543e-63 0.000450456	ven neurons 9.141e-108 0.007752188 1 3.67513e-08 1.3825e-102 0.022821389 1 4.99186e-07 1.81735e-82 0.552315e, 13	tral progenitors 7.9395e-165 9.04646e-27 3.67513e-08 1 8.9414e-160 1.71915e-27 1.06906e-08 1 4.0332e-138 2.400416_44	dor neurons 1 5.30892e-83 1.3825e-102 8.9414e-160 1 2.77755e-91 6.37336e-97 3.2764e-156 0.42173348 0.0006e.37	sal progenitors 2.2775e-97 1 0.022821389 1.71915e-27 2.77755e-91 1 0.064114638 8.83104e-26 3.15033e-70 2.707644.0	ver neurons 3.0703e-102 0.027366517 1 1.06906e-08 6.37336e-97 0.064114638 1 1.70704e-07 4.97531e-78 6.97904c-12	tral progenitors 5.976e-161 6.9011e-25 4.99186e-07 1 3.2764e-156 8.83104e-26 1.70704e-07 1 2.2888e-134 2.92520, 42	doi neurons 0.003286574 2.35543e-63 1.81735e-82 4.0332e-138 0.421733484 3.15033e-70 4.97531e-78 2.2888e-134 1 0.05270e 25	rsal progenitors 4.45928e-41 0.000459166 2.55215e-13 2.40911e-44 8.99096e-37 7.07641e-05 6.87894e-12 3.86352e-42 5.90579e-25	ver neurons 2.42524e-93 0.629832969 1 9.60449e-11 7.45943e-88 1 1 2.53478e-09 5.73308e-70 2.29692-00	tral progenitors 1.09319e-91 1.28378e-08 0.152639626 4.42393e-88 6.88963e-09 0.865286437 0.60786628 1.54211e-73 1.54211e-73	doi neurons 1 1.04541e-79 1.9437e-99 4.2672e-157 1 6.91285e-88 4.09103e-94 1.3237e-153 1 0.114432-25	rsal progenitors 2.96169e-67 1 2.76115e-05 1.69207e-31 3.7082e-62 1 0.000138736 1.59481e-29 3.81722e-46 0.306069248	ven neurons 0.013178984 9.62466e-07 9.50612e-11 2.20952e-29 0.099174573 3.44687e-10 3.84086e-28 1 3.38990.64	tral progenitors 2.43426e-05 0.299067337 0.001769234 9.78288e-16 0.000155363 0.134743369 0.003201864 4.75121e-15 0.013449148 4.75121e-15
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HD_mono_HD_co_CTRL_mono_CTRL_co Acresidomaidomaidomaidomai	ventral ventral ventral ventral	neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors	dor neurons 1.63602e-88 9.141e-108 7.9395e-165 1 2.2775e-97 3.0703e-102 5.976e-161 0.003286574 4.45928e-41 2.42524e-93 1.09319e-91 1 2.96169e-67 0.013178984 2.43426e-05	sal progenitors 1.63602e-88 1.03002e-88 1.0300752188 9.04646e-27 5.30892e-83 1.027366517 6.9011e-25 2.35543e-63 0.00459166 0.629832966 1.04541e-79 1.24378e-06 1.04541e-79 1.952466e-07 0.299067337	ven neurons 9.141e-108 0.007752188 1.367513e-08 1.3825e-102 0.022821389 4.99186e-07 1.81735e-82 2.55215e-13 1. 1.9437e-99 2.76115e-05 9.50612e-11 0.001769234	tral progenitors 7.93956-165 9.04646e-273 3.67513e-08 1.94646e-273 1.06906e-08 1.71915e-27 1.06906e-08 2.40911e-44 9.60449e-11 0.152639627 1.69207e-31 1.69207e-31 2.20952e-29 9.78288e-16	dor neurons 1 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5.30892e-85 5	sal progenitors 2.27756-97 1 0.022821389 1.719156-27 2.777556-91 1 0.064114638 8.631042-63 3.55038-70 7.07641e-05 3.63963e-09 6.91265-88 1.05733e-07 0.134743369	ver neurons 3.0703e-102 0.027366517 1 1.06906e-08 6.37336e-79 0.064114638 1 1.07074e-07 4.97531e-78 6.87894e-12 0.865286437 4.091038-94 0.000138736 3.44687e-10 0.0003201864	tral progenitors 5.976e-161 6.9011e-25 4.99186e-07 1 3.2764e-156 8.83104e-26 1.70704e-07 1 2.2888e-134 3.86352e-42 2.53478e-09 0.60788622 1.5278-153 1.59481e-29 3.84086e-22 4.75121e-15	doi neurons 0.003286574 2.35643e-63 1.81735e-82 4.0332e-138 0.421733484 3.15038e-70 4.97531e-78 2.2888e-134 1 5.90579e-25 5.73308e-70 1.54211e-73 1 1.81722e-46 1 0.013449148	sal progenitors 4.45928e-41 0.000459166 2.40911e-44 8.99096e-37 7.07641e-05 6.87894e-12 3.86352e-42 5.90579e-25 1 2.20682e-09 1.14873e-19 9.11443e-35 0.30686818 0.308280464 1	ver neurons 2.42524e-93 0.629832969 1 9.60449e-11 7.45943e-88 1 1 1 2.20682e-09 1 0.126075115 1.79942e-85 0.007475323 1.20529-00 0.01907081	tral progenitors 1.08319e-91 1.28378e-08 1 0.15263962c 4.42393-8638-09 0.865286437 0.60788628 1.148738-19 0.126075115 1 2.6062e-86 1.13768e-11 3.36777e-17 7.68229e-09	doi neurons 1 1.04541e-72 1.9437e-99 4.2672e-157 1 6.91285e-88 4.09103e-94 1.3237e-153 1 9.11443e-35 1.79942e-85 2.6062e-66 1 2.6062e-66 1 0.09442248 0.000226238	rsal progenitors 2.96169e.67 1 2.76115e.05 1.69207e.31 3.7082e.62 1.000138736 1.50481e.29 3.81722e.46 0.306968318 0.007475323 1.13768e.1 1.13768e.1 1.13768e.1 0.000202096 1	ven neurons 0.013178984 9.62466e.07 9.50612e.11 2.20952e.29 0.099174573 1.056733e-07 3.44687e-10 3.84086e-28 1 0.338280464 1.20529e-08 1.20529e-08 0.094422481 0.000202096 1 1	tral           progenitors           2.434268-05           0.099067337           0.001768224           9.782888-16           0.00155363           0.003201864           1           0.0134743368           1           0.01907081           7.68229-09           0.000226238           1           1
O HD mono HD co CTRL mono CTRL co	Ucentral ventral ventral ventral ventral	neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors progenitors neurons progenitors act p-value	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 2.2775e-97 3.0703e-102 5.976e-161 0.003286574 4.45928e-41 2.45524e-93 1.093198-91 2.951698-67 0.013178984 2.43426e-05 ss (FIG 4I)	sal progenitors 1.63602e-88 1.03002e-88 1.030752188 9.04646e-27 5.30892e-83 1 0.027366517 6.9011e-25 2.35643e-63 0.000459166 0.629832969 1.04541e-79 1 9.62466e-07 0.299067337 CTR	ven neurons 9.141e-108 0.007752188 1 3.67513-08 1.3825e-102 0.022821389 1 4.99188e-07 1.817358-82 2.55215e-13 1 1 1.9437e-99 2.76115e-05 9.50612e-11 0.001769234	tral progenitors 7.93956-165 9.04646e-27 3.67513e-08 1 1.71915e-27 1.06906e-08 1.0332e-138 2.40911e-44 9.60449e-11 0.15263962-157 1.65207e-31 2.20952e-28 9.78288e-16	dor neurons 1.3825e-102 8.9414e-160 1.277755e-91 6.37336e-97 3.2764e-156 0.421733464 8.99096e-37 7.45943e-88 4.42333e-88 1.3.7082e-62 0.099174573 0.0001555363	sal progenitors 2.2775e-97 1.71915e-27 2.77755e-91 1.0022821389 1.71915e-27 2.77755e-91 1.0064114638 8.83104e-26 3.15033e-70 1.51033e-70 6.88963e-09 6.91285e-88 1.05733e-07 0.134743369 CTRL	ver neurons 3.07036-102 0.027366517 1 1.06906e-08 6.37336e-97 0.04114638 1 1.70704e-07 4.975318-78 6.87894e-12 1 0.865286437 4.901038-94 0.00138736 3.44687e-10 0.003201864 	tral progenitors 5.976e-161 6.9011e-25 4.99168e-07 1 3.2764e-156 8.8304e-25 8.8304e-22 2.2888e-134 3.86352e-42 2.53478e-09 0.60788628 1.53451e-29 3.84086e-22 4.75121e-15	doi neurons 0.002286574 2.35543e-63 1.81735e-62 4.0332e-138 0.421733484 3.15033e-70 2.2888e-134 1 5.90579e-25 5.73308e-70 1.54211e-73 1.54211e-73 1.54211e-73 1.54211e-73 1.54214e-74 1 0.013449148	sal progenitors 4.45928e-41 0.000459166 2.55215e-13 2.40911e-44 8.99096e-37 7.07641e-05 6.87894e-12 3.863562e-42 5.90579e-25 1 2.20682e-09 1.14873e-19 9.11443e-35 0.30868318 0.338280464 1 HD	ver neurons 2.42524e-93 0.629832960 1 9.60449e-11 7.45943e-84 1 1 2.53478e-09 2.0682e-09 1.0220682e-09 1.20529e-08 0.07475323 1.20529e-08 0.01907081 C0	tral progenitors 1.093196-91 1.28378e-08 1 0.1526339626 4.42393e-88 6.88963e-09 0.865286437 0.60788628 1.54211e-73 1.14873e-19 0.126075115 1 2.6062e-86 1.13768e-11 3.96777e-17 7.68229e-09	doi neurons 1 104541e-79 1.9437e-99 4.2672e-157 1 6.91285e-88 4.09103e-94 1.3237e-153 1 1.3237e-153 1.3237e-153 1.3237e-153 1.3237e-153 1.79942e-85 2.6062e-86 1 7.71732e-60 0.09442248 0.000226238	rsal progenitors 2.96169e-67 1 2.76115e-05 1.69207e-31 3.7082e-62 1.59481e-29 3.81722e-46 0.000138788e-11 7.71732e-60 0.000698318 0.007475323 1.37688e-11 7.71732e-60 1.000202096 1 HD_	ven neurons 0.013178984 9.62466e.07 9.50612e-11 2.099174573 1.05733e-07 3.44687e-10 3.44687e-10 3.44687e-10 3.340264e-28 1 0.032280464 1.20529e-08 3.66777e-17 0.094422481 0.000202096 1 1 mono	tral           progenitors           2.43426e-05           0.299067337           0.001760224           9.78288e-16           0.000155363           0.000156124           1           0.0134493148           1           1           1
D HD mono HD co CTRL mono CTRL co	m ventral ventral ventral oorsal	neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 1 2.2775e-97 3.0703e-102 5.976e-161 0.003286574 4.45922e-41 2.45224e-93 1.09319e-91 2.96169e-67 0.013178984 2.43426e-05 s: (FIG 41) c) do	sal progenitors 1.63602e-88 1.03602e-88 1.0007752188 9.04646e-27 5.30892e-83 1.027366517 6.9011e-25 2.35543e-63 0.027366517 6.9011e-25 2.35543e-63 0.0004591660 0.29832966 1.28378e-08 1.04541e-79 1.9.52466e-07 0.299067337 CTR rsal	ven neurons 9.141e-108 0.007752188 1 3.67513e-08 1.3825e-102 0.022821389 1 4.99186e-07 1.81735e-82 2.55215e-13 1 1 1.9437e-99 2.76115e-05 9.50612e-11 0.001769234 kco	tral progenitors 7.3366-165 9.04646e-27 3.67513e-08 1.3414e-160 1.71915e-27 1.06906e-08 1.01915e-27 1.06906e-08 1.01915e-27 1.069026e-08 1.01915e-27 1.069207e-31 2.20952e-29 9.76288e-16 9.76288e-16 1.20952e-29 9.76288e-16 1.20952e-29 9.76288e-16 1.20952e-29 9.76288e-16 1.20952e-29 9.76288e-16 1.20952e-29 9.76288e-16 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29 1.20952e-29	dor neurons 5.30892e-83 1.3825e-102 8.9414e-160 1 2.77755e-91 6.37336e-97 3.2764e-156 0.421733484 8.99006e-37 4.745943e-88 4.42393e-88 4.42393e-82 0.099174573 0.00155363	sal progenitors 2.27756-97 1 0.022821389 1.719156-27 2.777556-91 1.719156-27 2.777556-91 1.719156-27 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D HD mono HD co CTRL mono CTRL co	entral dorsal dorsal dorsal rentral ventral ventral ventral	neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors areurons progenitors neurons progenitors	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 1 2.2775e-97 3.0703e-102 5.976e-161 0.003286574 4.459286-41 2.42524e-93 1.09319e-91 1 2.42524e-95 2.43245e-05 ss (FIG 4I) do neurons	sal progenitors 1.63602e-88 1.03602e-88 1.03602e-88 1.0007752188 9.04646e-27 5.30892e-83 5.30892e-83 0.027366517 6.9011e-25 2.35543e-63 0.00459166 0.029832966 1.28378e-08 1.04541e-79 1 9.62466e-07 0.299067337 CTR rsal	ven neurons 9.141e-108 0.007752188 1 3.67513e-08 1.3825e-102 0.022821389 1 1.3825e-102 2.55215e-13 1 1.9437e-99 2.76115e-05 9.50612e-11 0.001769234 8L_co ver neurons	tral progenitors 7.3356-165 9.04646-273 3.67513e-08 1 1 8.9414e-160 1 4.0332e-138 2.40911e-44 9.06449e-11 0.152639626 4.2672e-157 1.69207e-31 2.20952e-29 9.78288e-16 tral progenitors	dor neurons 1 5.00892e-83 1.3825e-102 8.9414e-160 1 2.77755e-91 6.37336e-97 3.2764e-156 0.421733464 8.99006e-37 7.45943e-88 4.42393e-88 1 7.45943e-88 0.099174573 0.000155363 dor neurons	sal progenitors 2.27755e-97 1 0.022821389 1.719156-27 2.77755e-91 1 0.064114638 8.831042-26 3.15033e-70 7.07641e-05 1 6.88963e-09 6.91285e-88 1 1.05733e-07 0.134743369 CTRL sal progenitors progenitors	ver neurons 3.0703e-102 0.027366517 1 1.06906e-08 6.37336e-97 0.064114638 1 1.07074e-07 4.97531e-78 6.87884e-12 1 0.865286437 1 0.000138736 3.44687e-10 0.000138736 3.44687e-10 0.000138736 	ttral progenitors 5.976e-161 6.9011e-25 4.99186e-07 1 3.2764e-166 8.83104e-26 1.70704e-07 1 2.2888e-134 3.66352e-42 5.53478e-00 0.60788628 1.3237e-153 1.59431e-23 3.84086e-26 4.75121e-15 ttral progenitors	doi neurons 0.003286574 2.35543e-63 1.81735e-82 4.0332e-138 0.421733484 3.15033e-70 4.97531e-78 2.2888e-134 1 5.90579e-25 5.73308e-70 1.54211e-73 1 0.013449148 0.013449148 doi neurons	sal progenitors 4.45928e-41 0.0004591662 2.55215e-13 2.40911e-44 8.99096e-37 7.07641e-05 6.87894e-12 3.86352e-42 5.90579e-25 1 2.20682e-09 1.14873e-19 9.114432e-35 0.338280464 1 HC rsal progenitors	ver neurons 2.42524e-93 0.629832969 1 9.60449e-11 7.45943e-88 1 1 1 2.2662e-09 1 0.126075115 1.79942e-85 0.01907081 1.20529e-08 0.01907081 _co ver neurons	tral progenitors 1.08378e-08 1.28378e-08 1.28378e-08 1.28378e-08 1.28378e-08 1.28378e-08 1.28378e-08 0.052862437 0.06788628 1.54211e-73 1.48738e-19 0.06788628 1.54211e-73 1.48738e-19 1.12607511e 1.260751e 1.396777e-17 7.68229e-09 tral progenitors	doi neurons 1 1.04541e-722e-157 1.9437e-99 4.2672e-157 1 6.91285e-88 4.09103e-94 1.3237e-153 1.11433e-35 1.11433e-35 2.6062e-86 1 1.79242e-85 2.6062e-86 1 0.09442248 0.000226238 0.000226238	rsal progenitors 2.96169e.67 1 2.76115e.05 1.69207e.31 3.7082e.62 3.81722e.46 0.306966318 0.306966318 0.306966318 0.000475323 1.13768e.11 7.71732e.60 1 0.000202096 1 mD_ rsal progenitors	ven neurons 0.013178984 0.013178984 0.013178984 0.03262e-29 0.099174573 1.05733e-07 3.44687e-10 3.84086e-28 3.96777e-17 0.094422481 0.000202096 1 1 ven non ven ven neurons	tral progenitors 2.43426e-05 0.299067337 0.001769234 9.78288e-16 0.000155585 0.00155585 0.00155585 0.00155585 0.0014549148 1 0.001970781 1 1 1 1 tral progenitors
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1.05733e-07 3.44687e-10 3.84086e-28 1 0.33280464 1 1.1 mono ver neurons 3.7810e-104	tral           progenitors           2.43426e-05           0.099067337           0.001769224           9.78288e-16           0.00155363           0.00125364           0.003201864           1.013443368           0.0134493168           1           0.0134493168           1           0.019070811           1.68229e-09           0.000226238           1           1           1           1           1           1           1           1           1           1           1           1
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1.01915e-27 1.06906e-08 1.05262e-29 9.78268e-16 tral progenitors 6.5127e-241 9.0745e-92	dor neurons 1.38258-83 1.38258-102 8.9414e-160 1 2.777558-91 6.37336e-97 3.2764e-156 0.421733464 8.990966-37 3.2764e-156 0.421733464 8.990966-37 3.2764e-156 1.37082e-62 0.099174573 0.000155363 1.4262e-199	sal progenitors 2.2776e-97 1 0.022821389 1.71915e-27 2.77756e-91 1 0.022821389 1.71915e-27 2.77756e-91 0.064114638 8.83104e-26 3.150338-70 7.07641e-05 1 0.64114638 8.83104e-26 3.150338-70 7.07641e-05 1 0.6414638 6.91285e-88 6.91285e-88 CTRL sal progenitors 6.3912e-146 0.2053	ver neurons 3.07036-102 0.027366517 1 1.06906e-08 6.37336e-97 0.064114638 1.070704e-07 4.97531e-78 6.87894e-12 1.0865286437 4.90103e-94 0.000138736 3.44687e-10 0.003201864 mono ver neurons 0 2.7733e-137	ttral progenitors 5.976e-161 6.0011e-25 4.99186e-07 1.2764e-156 8.83104e-26 1.70704e-07 1.22888e-134 3.26835e-424 2.53478e-09 0.60788628 1.59481e-29 3.84086e-26 4.75121e-15 ttral progenitors 1.707e-424 4.3656e-95	doi neurons 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TRL_co O <u>HD_mono HD_co CTRL_mono</u> CTRL_co	ntal dorsal (ventral dorsal dorsal dorsal ntal m ventral ventral ventral	neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors act p-value neurons progenitors neurons	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 1 2.2775e-97 3.0703e-102 5.976e-161 0.003286574 4.45922e-41 2.45224e-93 1.08319e-91 2.96169e-67 0.013178984 2.43426e-05 8.6[FG 41] do neurons 1.7923e-171 0.7923e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 0.7924e-171 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Dio CTRL_co <u> </u>	ventral (ventral ventral ventral ventral)	neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors act p-value neurons progenitors neurons progenitors neurons progenitors neurons progenitors	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 1 2.27758e-97 3.0703e-102 5.976e-161 0.003286574 4.45928e-41 2.42524e-95 4.45928e-41 2.42524e-95 st (FIG 4I) 	sal progenitors 1.63602e-88 1.03602e-88 1.03602e-88 1.03602e-88 1.03602e-88 1.03602e-88 1.0027366517 6.0011e-25 2.35643e-63 0.000459166 0.029823966 1.04541e-79 1.052466e-07 0.299067337 CTR rsal progenitors 1.7923e-171 1.5586e-139 9.07459e-92 1.4920-170	ven neurons 9.141e-108 0.007752188 1 1.3825e-102 0.022821389 1.3825e-102 0.022821389 1.3825e-102 0.022821389 1.817358-82 2.552158-13 1.94376-95 9.50612e-11 0.001769234 8L_co ver neurons 0 1.5586e-139 1 0.004444 0.004444	tral progenitors 7.3356-165 9.04646e-27 3.67513e-08 1 1.04506e-08 1 4.0332e-138 2.40911e-44 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0.6062	tral           progenitors           2.43426e-05           2.93067337           0.001769234           9.78288e-16           0.000155362           0.00155362           0.03201864           4.75121e-15           0.013449148           1           0.01907081           1.7632e-09           0.000226238           1           1           1           1           1           1.4633e-49           3.7179e-20           1           5.3206e-52           1.9245e-24
CTRL_mono     CTRL_mono     HD_mono     HD_mono       dama     dama     dama     dama	central ventral oorsal oorsal oorsal oorsal oorsal ventral ventral ventral ventral ventral	neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 1 2.2775e-97 3.0703e-102 5.976e-161 0.003286574 4.45928e-41 2.45224e-93 1.08319e-91 2.96169e-67 0.013178984 2.43426e-05 2.43426e-05 2.43426e-05 2.43426e-05 2.43426e-05 2.43426e-05 0.013178984 0.01639-146 0.01633 0.0163e-146 0.0163	sal progenitors 1.63602e-88 1.03602e-88 1.03602e-88 1.03602e-88 1.0007552188 0.04646e-27 5.30892e-83 1.037366617 6.9011e-25 2.35643a-63 0.0024591660-07 0.0004591660 1.04541e-79 1.04541e-79 1.9.52466e-07 0.299067337 CTF rsal progenitors 1.79226-171 1.15586e-133 9.07459e-92 1.26254 2.7734e-137 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1.5705e	sal progenitors 2.27756-97 1 0.022821369 1.719156-27 2.777556-91 1.719156-27 2.777556-91 1.719156-27 2.777556-91 1.777556-91 3.150336-70 1.057336-70 1.057336-70 0.134743369 CTRL sal progenitors 6.39126-162 5.70256-108 8.55396-174 1.66246-159 6.74046-111	ver neurons 3.0703e-102 0.027366517 1.06906e-08 6.37336e-97 0.064114638 1.70704e-07 4.97531e-78 6.87894e-12 1 0.665286437 4.90103e-94 0.000138736 3.44687e-10 0.003201864 	tral progenitors 5.976e-161 6.9011e-25 4.99186e-07 1 2.2888e-134 3.86352e-42 2.2888e-134 3.86352e-42 2.2888e-134 3.86352e-42 2.5478e-00 0.60788628 1.59481e-20 0.60788628 1.59481e-20 1.59481e-20 1.59481e-20 1.59481e-20 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 1.5748e-28 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_c0 ver neurons 0.02594-08 2.3594e-130 0.05085 1.05085 1.05085	tral progenitors 1.09319e-91 1.28378e-08 1.28378e-08 1.28378e-08 1.28378e-08 0.152639626 4.2393e-88 0.865286437 0.60788628 1.54211e-73 1.14878e-11 1.012675115 9.3744e-165 4.2112e-71 1 1 1.0479e-176 7.3223e-83 1 1	doi neurons 1 1,04541e-791 1,9437e-99 4,2672e-157 1 6,91285e-88 4,09103e-94 1,3237e-153 1 1,14343e-355 2,6062e-66 1 7,71732e-60 0,09442248' 0,000226238 0,000226238 1,0202e-237 0,01464 1,0101e-144 0,02 2,4732e-237	rsal	ven neurons 0.013178984 9.62466e.07 9.50612e-11 2.20952e-29 0.099174573 1.05733e-07 3.44687e-10 3.440867e-10 3.440867e-10 3.440867e-10 1.205296-08 3.96777e-17 0.004222486 0.000202066 1 1.205296-08 3.96777e-17 0.004222487 0.000202066 1 1.85156-38 0.61566 1 1.9135e-47 0.60622 1 1	tral           progenitors           2.43426e-05           0.299067337           0.001769234           9.78288e-16           0.000155368           0.00155082           0.003201864           1           0.01907081           0.01907081           0.01907081           1           1           1           1           1           1           1           1           1.46338-49           3.71798-20           1           5.3206e-52           1           1
D CTRL mono CTRL co O HD mono HD co CTRL mono CTRL co	ventral dorsal Custal dorsal dorsal dorsal dorsal ventral vent	neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-165 1 2.27756-97 3.0703e-102 5.976e-161 0.003286574 4.45922e-41 2.45226e-05 38 (FIG 41) 	sal progenitors 1.63602e-88 1.63602e-88 1.03602e-88 1.03602e-88 1.03602e-88 1.04646e-27 5.3682e-83 1.027366517 6.0011e-25 2.35643e-63 0.000459166 0.000459166 0.000459166 0.029823966 1.04541e-79 1.04541e-79 1.04548e-03 1.04548e-03 1.025466-07 0.299007337 CTFF rsal progenitors 1.7823e-171 1.5586e-139 9.07459e-92 1.4262e-199 0.2054 2.7734e-137 4.3666e-95 2.2025e-194	ven neurons 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5.90579e-25 5.73308e-70 1.54211e-73 1 0.013449148 	sal progenitors 4.45928e-41 0.000459166 2.55215e-13 2.40911e-44 8.99096e-37 7.07641e-05 6.87894e-12 3.86352e-42 5.90579e-25 1 2.20682e-09 1.14873e-19 9.11443e-35 0.338280464 1 HD rsal progenitors 7.0249e-157 1 9.2513e-133 7.7019e-183 1 1.2210e-136 7.7514e-66 2.75514e-67 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 2.9762e-176 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1.69207e-31           3.7082e-62           3.7082e-62           3.81722e-46           0.306968318           0.3007475323           1.13768e-11           7.71732e-60           1           0.000202096           1           Progenitors           1.5447e-148           7.831e-135           3.7544e-89           3.9611e-174           1           1.3579e-132           1.3529e-91           3.929e-169	ven neurons 0.013178984 9.62466e.07 9.50612e-11 2.20652e-29 0.099174573 1.05733e-07 3.44687e-10 3.84086e-28 3.84086e-28 3.84086e-28 1 0.038280464 1.20529e-08 3.96777e-17 0.094422481 0.000202096 1 1.120529e-08 1 1.8515e-38 0.6156 1 1.9135e-47 0.6156 1 1.9135e-47 0.6602 1 4.7827e-110	tral           progenitors           2.43426e-05           0.299067337           0.001769234           9.78288e-16           0.000155365           0.00155365           0.01449148           1           0.01902022           1           0.0197081           1           0.0197081           1           1           1           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iono HD_co CTRL_mono CTRL_co O HD_co CTRL_mono CTRL_co	lorsal dorsal dorsal oorsal oorsal dorsal dorsal dorsal dorsal oorsal oorsal oorsal ventral ventra	neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons progenitors neurons	dor neurons 1 1.63602e-88 9.141e-108 7.9395e-155 1 2.2775e-97 1.7395e-155 3.0703e-102 5.976e-161 0.003286574 4.45928e-41 2.45524e-33 1.09319e-91 2.96169e-67 0.013178984 2.43426e-05 1.09319e-91 do neurons 1 1.7923e-171 0 0.01633-1042 1 0.01633-1042 1 7.0849e-157 0 9.3744e-169 1 5.447e-148	sal progenitors 1.63602e-88 1.63602e-88 1.03602e-88 1.03602e-88 1.03602e-88 1.03602e-88 1.0027366517 6.0011e-25 2.35543e-63 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3.7775e-135 2.3898e-72 7.0188e-155 1 1 1 2.210e-136 7.75514e-96 2.3776e-138 2.3898e-72 7.0188e-155 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	ver neurons 2.42524e-93 0.629832969 1 9.604499-11 7.45943e-88 1 1 1 5.73308e-70 2.20682e-09 1 0.250475415 1.79942e-85 0.01907081 2.3594e-136 1 0.05605 1 0.05085 0 3.7776e-135 1 1 2.6662e-131 1 0 2.6662e-131 1 0 2.6662e-131 0 0 0 0 0 0 0 0 0 0 0 0 0	tral progenitors 1.093198-91 1.28378e-08 1.28378e-08 1.28378e-08 1.28378e-08 1.28378e-08 1.28378e-08 2.865286437 0.865286437 0.865286437 0.60788628 1.54211e-73 1.148778e-19 1.04205115 1.03768e-1 1.0479e-176 1.0479e-176 1.0479e-176 1.0479e-177 2.3988e-72 1.1 3.52658e-167 1.1 3.52658e-167 1.0180e-R0 1.0180E 1.0180E 1.01	doi neurons 1 1.04541e-722e-157 1.9437e-99 4.26722e-157 1 6.91285e-88 4.09103e-94 1.3237e-153 1 9.11443e-35 1.3237e-153 2.6062e-86 1.179942e-85 2.6062e-86 0.09442248 0.000226238 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        0.000155363           0.00155363           0.01449148           1           0.01902082           1           0.0197081           1           0.01970821           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1
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Supplementary Table 2 – Exact p-value of plots in Fig 4 (A) relative to Fig 4E (B) relative to Fig 4F (C) relative to Fig 4H (D) relative to Fig 4I.