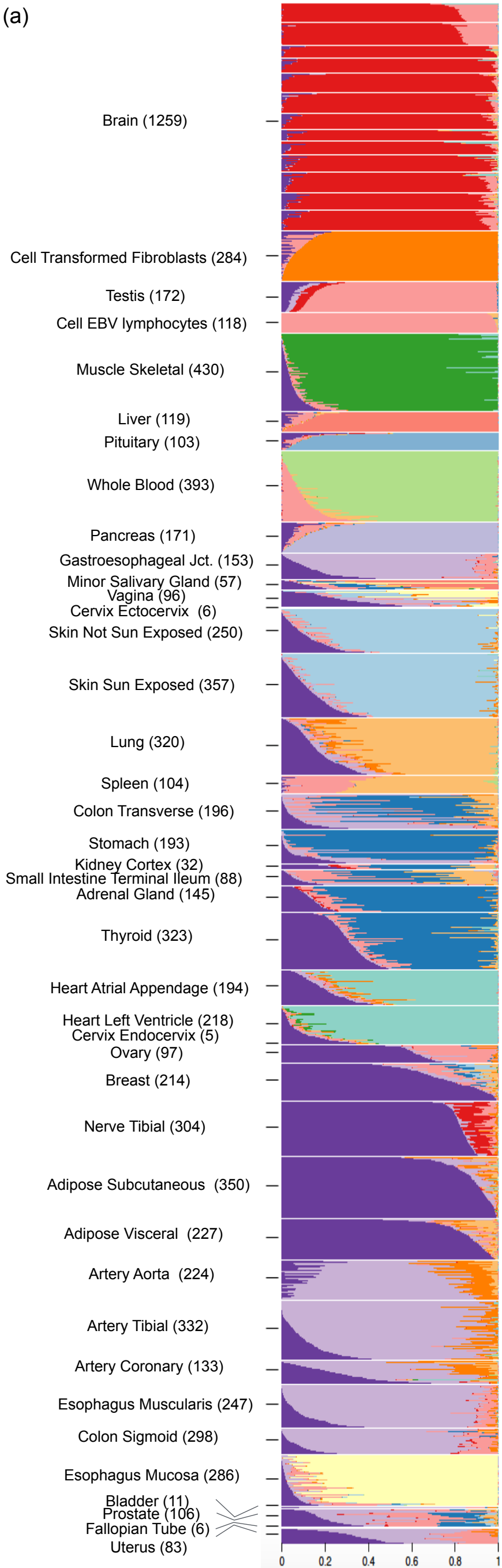
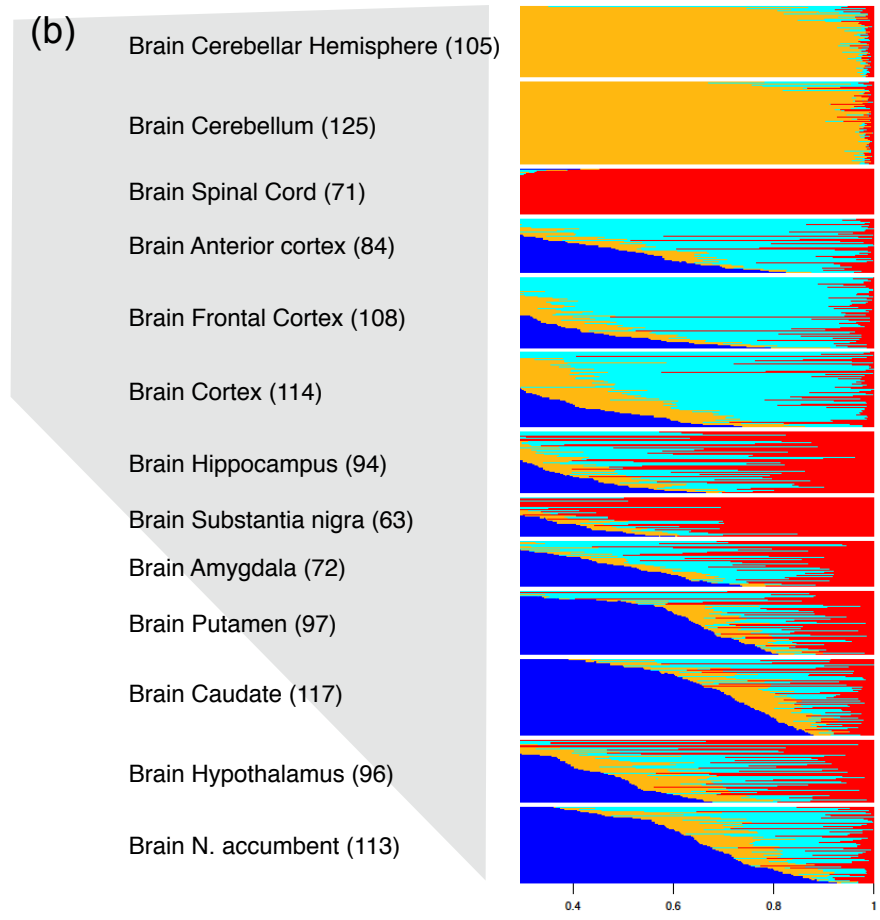
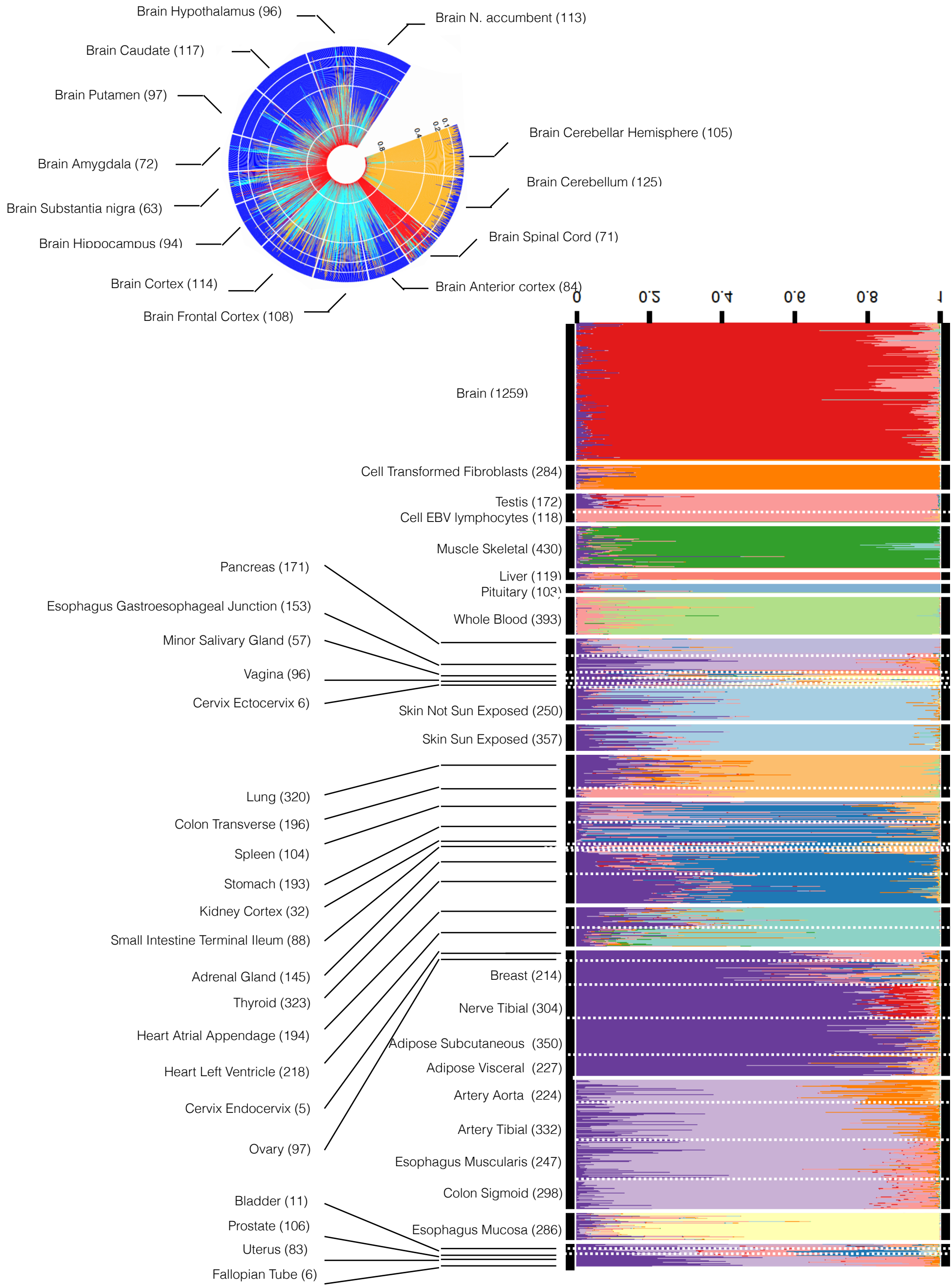
(a)
(b)
Brain (1259)
Cell Transformed Fibroblasts (284)
Testis (172)
Cell EBV lymphocytes (118)
Muscle Skeletal (430)
Liver (119)
Pituitary (103)
Whole Blood (393)
Pancreas (171)
Gastroesophageal Jct. (153)
Minor Salivary Gland (57)
Vagina (96)
Cervix Ectocervix 6)
Skin Not Sun Exposed (250)
Skin Sun Exposed (357)
Lung (320)
Spleen (104)
Colon Transverse (196)
Stomach (193)
Kidney Cortex (32)
Small Intestine Terminal Ileum (88)
Adrenal Gland (145)
Thyroid (323)
Heart Atrial Appendage (194)
Heart Left Ventricle (218)
Cervix Endocervix (5)
Ovary (97)
Breast (214)
Nerve Tibial (304)
Adipose Subcutaneous (350)
Adipose Visceral (227)
Artery Aorta (224)
Artery Tibial (332)
Artery Coronary (133)
Esophagus Muscularis (247)
Colon Sigmoid (298)
Esophagus Mucosa (286)
Bladder (11)
Prostate (106)
Fallopian Tube (6)
Uterus (83)
0
0.2
0.4
0.6
0.8
1
Brain Cerebellar Hemisphere (105)
Brain Cerebellum (125)
Brain Spinal Cord (71)
Brain Anterior cortex (84)
Brain Frontal Cortex (108)
Brain Cortex (114)
Brain Hippocampus (94)
Brain Substantia nigra (63)
Brain Amygdala (72)
Brain Putamen (97)
Brain Caudate (117)
Brain Hypothalamus (96)
Brain N. accumbent (113)
0.4
0.6
0.8
1
(a) clusters
1 : Purple
2 : Light Purple
3 : Red
4 : Light Red
5 : Blue
6 : Sky Blue
7 : Orange
8 : Light Orange
9 : Green
10 : Light Green
11 : Mint
12 : Light Yellow
13 : Light Violet
14 : Coral
15 : Steel Blue
(b) clusters
1 : Royal blue
2 : Yellow Orange
3 : Turquoise
4 : Red





(a) clusters	Top 5 driving genes
1 : Purple	FAB4, APOD, PLIN1, MPZ, GPX3
2 : Light Purple	MYH11, ACTA2, ACTG2, TAGLN, MYL9
3 : Red	MBP, GFAP, MTURN, SNAP25, MT3
4 : Light Red	PRM2, PRM1, PHF7, TSACC, TEX40
5 : Blue	TG, LIPF, PGC, PGA3, CYP11B1
6 : Sky Blue	KRT10, KRT1, KRT2, LOR, KRT14
7 : Orange	FN1, COL1A1, COL1A2, COL3A1, COL6A3
8 : Light Orange	SFTPB, SFTPA2, SFTPA1, SFTPC, IGHG1
9 : Green	MYH1, NEB, NYH2, MYBPC1, ACTA1
10 : Light Green	HBB, HBA2, HBA1, CSF3R, IFITM2
11 : Mint	NPPA, MYH6, ACTC1, TNNT2, MYBPC3
12 : Light Yellow	KRT13, KRT4, SPRR3, CRNN, RHCG
13 : Light Violet	PRSS1, PNLIP, CPA1, CELA3A, GP2
14 : Coral	MUC7, ALB, HP, FGA, FGB
15 : Steel Blue	PRL, GH1, POMC, CGA, CHGB

(b) clusters	Top 5 driving genes
1 : Royal blue	ATP1A2, CLU, PPP1R1B, APOE, GLUL
2 : Yellow Orange	PKD1, CBLN3, COL27A1, CHGB, PPFIA4
3 : Turquoise	ENC1, CALM2, MAP1A, CALM3, YWHAH
4 : Red	MBP, GFAP, TF, MTURN, PAQR6


Brain Hypothalamus (96)
Brain N. accumbent (113)
Brain Caudate (117)
Brain Putamen (97)
Brain Cerebellar Hemisphere (105)
Brain Amygdala (72)
Brain Cerebellum (125)
Brain Substantia nigra (63)
Brain Spinal Cord (71)
Brain Hippocampus (94)
Brain Cortex (114)
Brain Anterior cortex (84)
Brain Frontal Cortex (108)
0.1
0.2
0.4
0.8
0
2.0
4.0
6.0
8.0
Brain (1259)
Cell Transformed Fibroblasts (284)
Testis (172)
Cell EBV lymphocytes (118)
Muscle Skeletal (430)
Liver (119)
Pituitary (103)
Whole Blood (393)
Skin Not Sun Exposed (250)
Skin Sun Exposed (357)
Breast (214)
Nerve Tibial (304)
Adipose Subcutaneous (350)
Adipose Visceral (227)
Artery Aorta (224)
Artery Tibial (332)
Esophagus Muscularis (247)
Colon Sigmoid (298)
Esophagus Mucosa (286)
Pancreas (171)
Esophagus Gastroesophageal Junction (153)
Minor Salivary Gland (57)
Vagina (96)
Cervix Ectocervix 6)
Lung (320)
Colon Transverse (196)
Spleen (104)
Stomach (193)
Kidney Cortex (32)
Small Intestine Terminal Ileum (88)
Adrenal Gland (145)
Thyroid (323)
Heart Atrial Appendage (194)
Heart Left Ventricle (218)
Cervix Endocervix (5)
Ovary (97)
Bladder (11)
Prostate (106)
Uterus (83)
Fallopian Tube (6)

(a)

(b)

(c)

Brain (1259)
Cell Transformed Fibroblasts (284)
Testis (172)
Cell EBV lymphocytes (118)
Muscle Skeletal (430)
Liver (119)
Pituitary (103)
Whole Blood (393)
Pancreas (171)
Gastroesophageal Jct. (153)
Minor Salivary Gland (57)
Vagina (96)
Cervix Ectocervix 6)
Skin Not Sun Exposed (250)
Skin Sun Exposed (357)
Lung (320)
Spleen (104)
Colon Transverse (196)
Stomach (193)
Kidney Cortex (32)
Small Intestine Terminal Ileum (88)
Adrenal Gland (145)
Thyroid (323)
Heart Atrial Appendage (194)
Heart Left Ventricle (218)
Cervix Endocervix (5)
Ovary (97)
Breast (214)
Nerve Tibial (304)
Adipose Subcutaneous (350)
Adipose Visceral (227)
Artery Aorta (224)
Artery Tibial (332)
Artery Coronary (133)
Esophagus Muscularis (247)
Colon Sigmoid (298)
Esophagus Mucosa (286)
Bladder (11)
Prostate (106)
Fallopian Tube (6)
Uterus (83)

0 0.2 0.4 0.6 0.8 1

Brain Cerebellar Hemisphere (105)
Brain Cerebellum (125)
Brain Spinal Cord (71)
Brain Anterior cortex (84)
Brain Frontal Cortex (108)
Brain Cortex (114)
Brain Hippocampus (94)
Brain Substantia nigra (63)
Brain Amygdala (72)
Brain Putamen (97)
Brain Caudate (117)
Brain Hypothalamus (96)
Brain N. accumbent (113)

0.4 0.6 0.8 1

(a), (b) clusters

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

(c) clusters

1 2 3 4

(a)

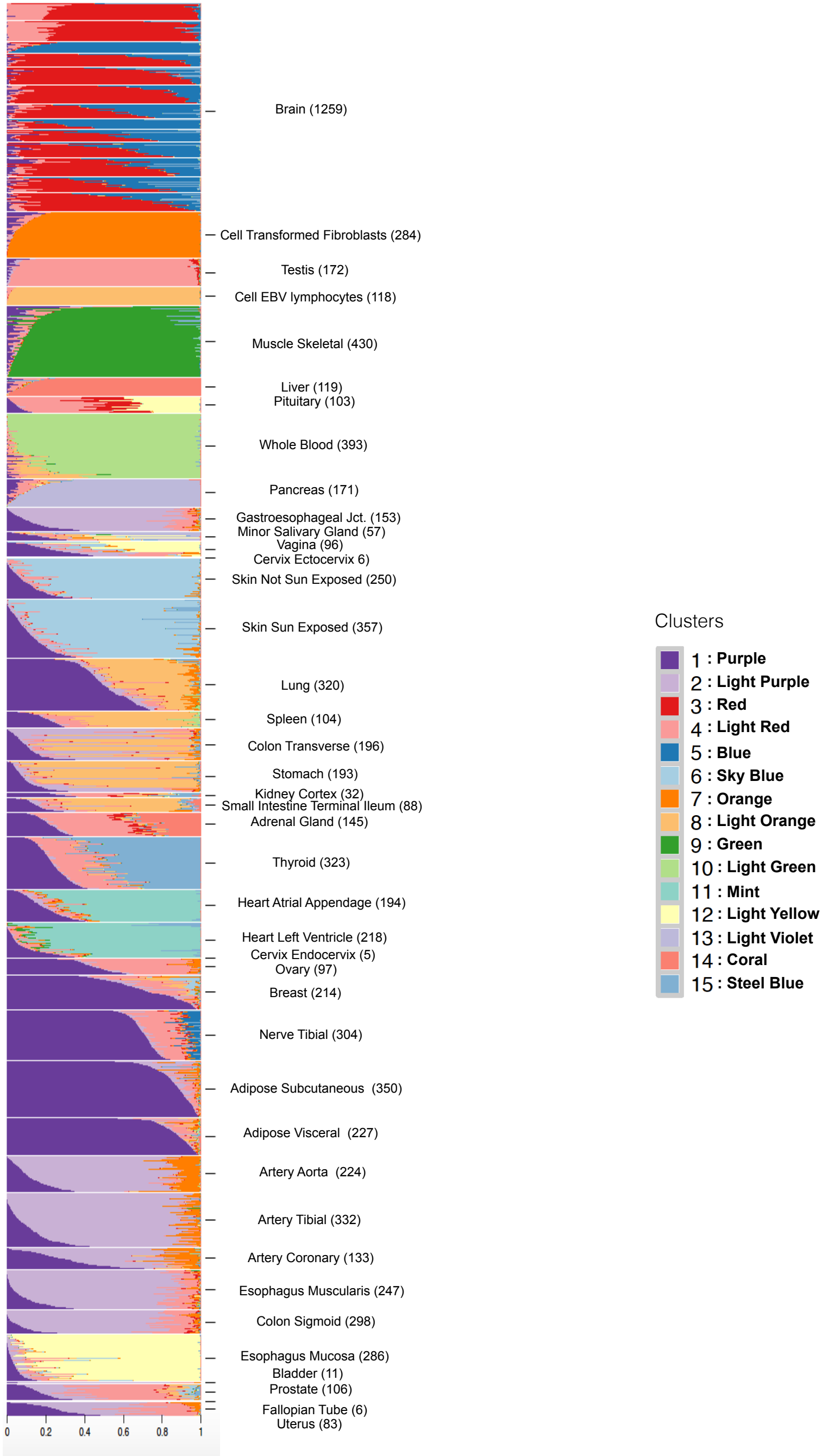
(b)

Brain (1259)
Cell Transformed Fibroblasts (284)
Testis (172)
Cell EBV lymphocytes (118)
Muscle Skeletal (430)
Liver (119)
Pituitary (103)
Whole Blood (393)
Pancreas (171)
Gastroesophageal Jct. (153)
Minor Salivary Gland (57)
Vagina (96)
Cervix Ectocervix 6)
Skin Not Sun Exposed (250)
Skin Sun Exposed (357)
Lung (320)
Spleen (104)
Colon Transverse (196)
Stomach (193)
Kidney Cortex (32)
Small Intestine Terminal Ileum (88)
Adrenal Gland (145)
Thyroid (323)
Heart Atrial Appendage (194)
Heart Left Ventricle (218)
Cervix Endocervix (5)
Ovary (97)
Breast (214)
Nerve Tibial (304)
Adipose Subcutaneous (350)
Adipose Visceral (227)
Artery Aorta (224)
Artery Tibial (332)
Artery Coronary (133)
Esophagus Muscularis (247)
Colon Sigmoid (298)
Esophagus Mucosa (286)
Bladder (11)
Prostate (106)
Fallopian Tube (6)
Uterus (83)

0 0.2 0.4 0.6 0.8 1

Clusters

1 : Purple
2 : Light Purple
3 : Red
4 : Light Red
5 : Blue
6 : Sky Blue
7 : Orange
8 : Light Orange
9 : Green
10 : Light Green
11 : Mint
12 : Light Yellow
13 : Light Violet
14 : Coral
15 : Steel Blue


Brain (1259)
Cell Transformed Fibroblasts (284)
Testis (172)
Cell EBV lymphocytes (118)
Muscle Skeletal (430)
Liver (119)
Pituitary (103)
Whole Blood (393)
Pancreas (171)
Gastroesophageal Jct. (153)
Minor Salivary Gland (57)
Vagina (96)
Cervix Ectocervix 6)
Skin Not Sun Exposed (250)
Skin Sun Exposed (357)
Lung (320)
Spleen (104)
Colon Transverse (196)
Stomach (193)
Kidney Cortex (32)
Small Intestine Terminal Ileum (88)
Adrenal Gland (145)
Thyroid (323)
Heart Atrial Appendage (194)
Heart Left Ventricle (218)
Cervix Endocervix (5)
Ovary (97)
Breast (214)
Nerve Tibial (304)
Adipose Subcutaneous (350)
Adipose Visceral (227)
Artery Aorta (224)
Artery Tibial (332)
Artery Coronary (133)
Esophagus Muscularis (247)
Colon Sigmoid (298)
Esophagus Mucosa (286)
Bladder (11)
Prostate (106)
Fallopian Tube (6)
Uterus (83)
0
0.2
0.4
0.6
0.8
1
Clusters
1 : Purple
2 : Light Purple
3 : Red
4 : Light Red
5 : Blue
6 : Sky Blue
7 : Orange
8 : Light Orange
9 : Green
10 : Light Green
11 : Mint
12 : Light Yellow
13 : Light Violet
14 : Coral
15 : Steel Blue

(a)

(b)

Brain (1259)
Cell Transformed Fibroblasts (284)
Testis (172)
Cell EBV lymphocytes (118)
Muscle Skeletal (430)
Liver (119)
Pituitary (103)
Whole Blood (393)
Pancreas (171)
Gastroesophageal Jct. (153)
Minor Salivary Gland (57)
Vagina (96)
Cervix Ectocervix 6)
Skin Not Sun Exposed (250)
Skin Sun Exposed (357)
Lung (320)
Spleen (104)
Colon Transverse (196)
Stomach (193)
Kidney Cortex (32)
Small Intestine Terminal Ileum (88)
Adrenal Gland (145)
Thyroid (323)
Heart Atrial Appendage (194)
Heart Left Ventricle (218)
Cervix Endocervix (5)
Ovary (97)
Breast (214)
Nerve Tibial (304)
Adipose Subcutaneous (350)
Adipose Visceral (227)
Artery Aorta (224)
Artery Tibial (332)
Artery Coronary (133)
Esophagus Muscularis (247)
Colon Sigmoid (298)
Esophagus Mucosa (286)
Bladder (11)
Prostate (106)
Fallopian Tube (6)
Uterus (83)

0 0.2 0.4 0.6 0.8 1

0 0.2 0.4 0.6 0.8 1

01 & 001

Clusters

1 : Purple
2 : Light Purple
3 : Red
4 : Light Red
5 : Blue
6 : Sky Blue
7 : Orange
8 : Light Orange
9 : Green
10 : Light Green
11 : Mint
12 : Light Yellow
13 : Light Violet
14 : Coral
15 : Steel Blue