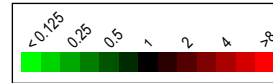


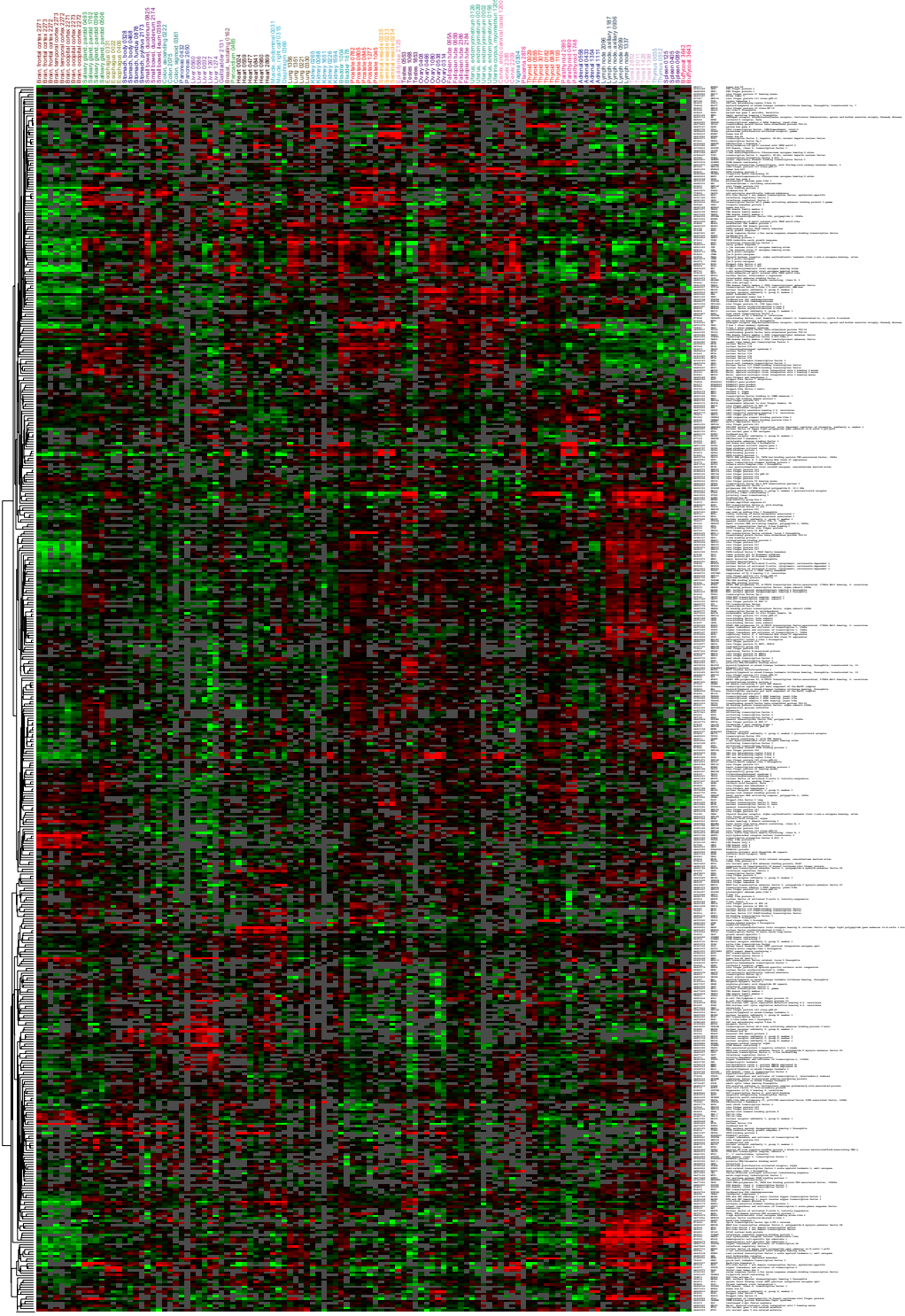
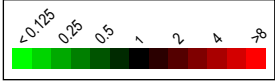
a. Tyrosine kinases



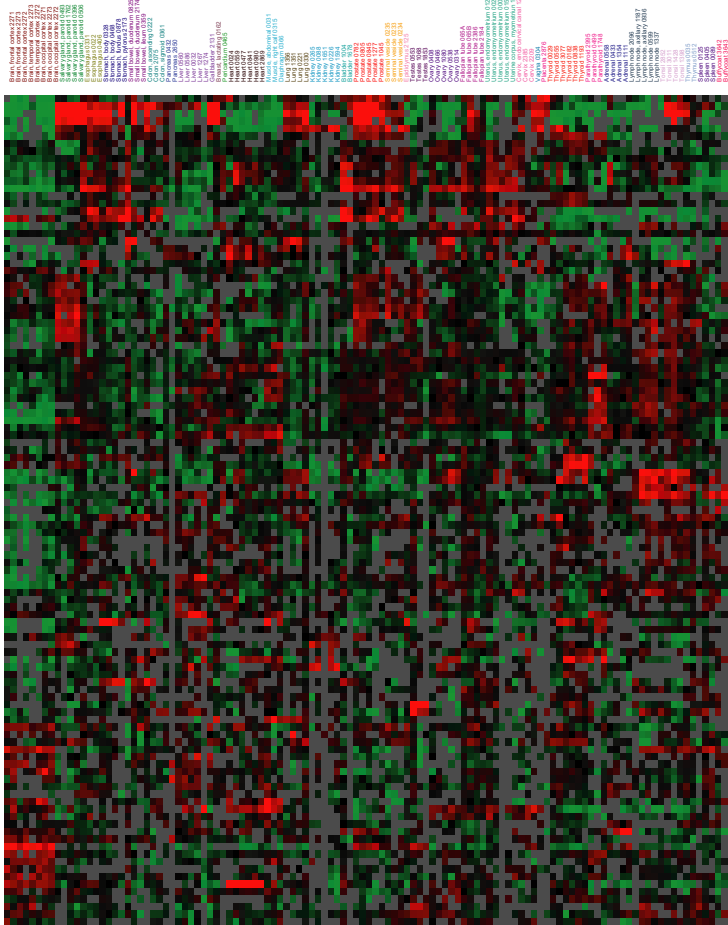
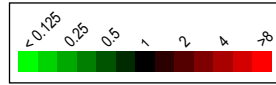
b. Kinases



d. Transcription factors

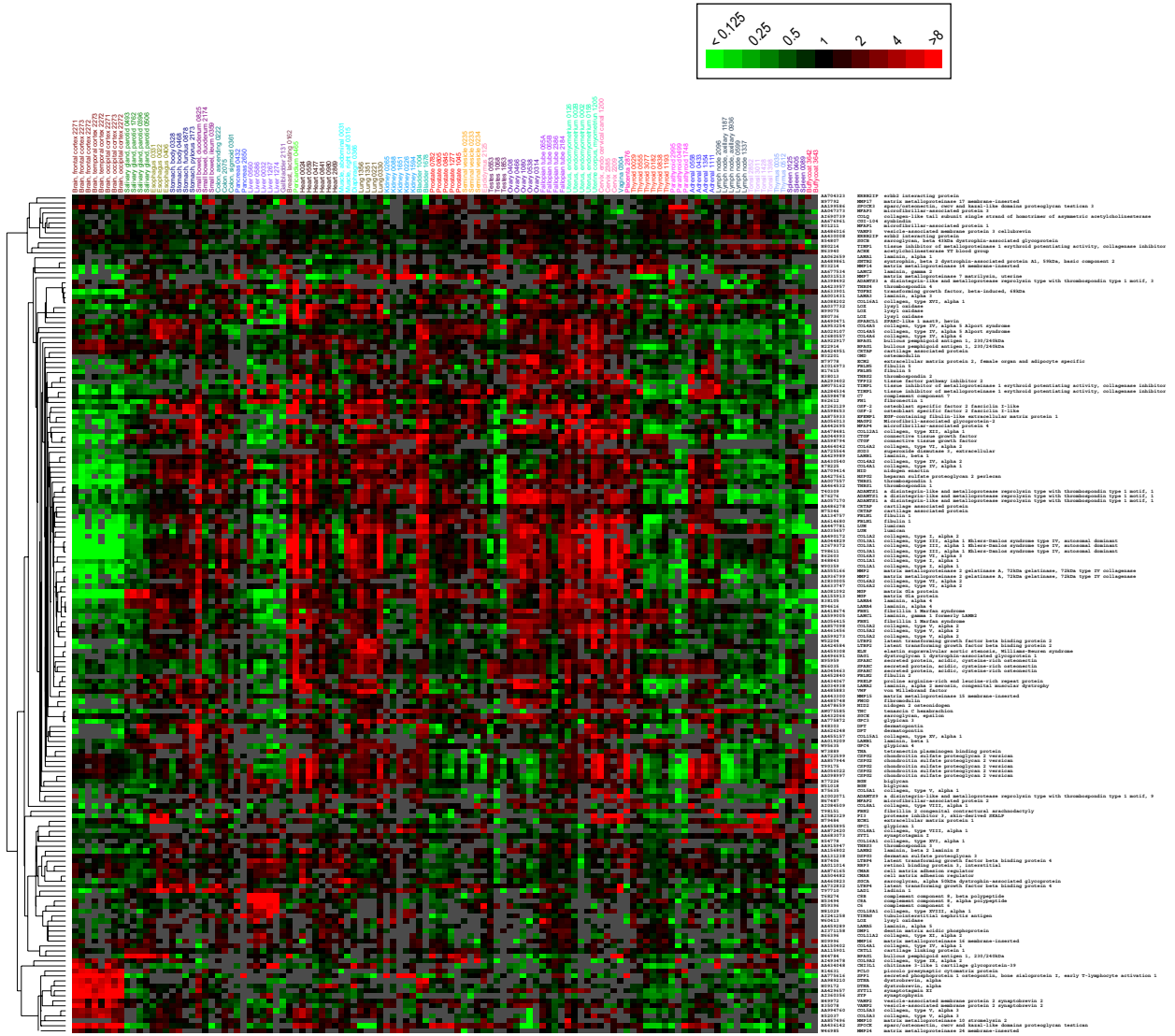


e. Ion channels



HE3532	GABRE	gamma-aminobutyric acid GABA A receptor, epsilon
AI171856	FXR3	FXR domain containing ion transport regulator 3
AA033583	FXR3	FXR domain containing ion transport regulator 3
AA443773	FXR3	FXR domain containing ion transport regulator 3
AA458982	SCN11A	sodium channel, nonvoltage-gated 3 alpha
AA126009	FXR3	FXR domain containing ion transport regulator 3
NC1154	KCTD15	potassium channel tetramerization domain containing 15
AA136165	KCTD15	potassium channel tetramerization domain containing 15
HE4211	PLD2	phosphatidylinositol 3-kinase-related domain containing 11
AA170702	CLIC4	chloride intracellular channel 4
AA142841	CLIC4	chloride intracellular channel 4
AA117861	CLIC4	chloride intracellular channel 4
AA487528	KCNB3	sodium channel, voltage-gated, type II, beta
HE1796	KCTD10	potassium channel tetramerization domain containing 10
NC1840	KCTD10	potassium channel tetramerization domain containing 10
AA029289	KCNMB1	potassium large conductance calcium-activated channel gamma-aminobutyric acid GABA A receptor, gamma 2
HE1109	GABRG2	potassium large conductance calcium-activated channel gamma-aminobutyric acid GABA A receptor, gamma 2
AA115034	KCTD12	potassium channel tetramerization domain containing 12
HE4021	KCNMB4	potassium large conductance calcium-activated channel gamma-aminobutyric acid GABA A receptor, gamma 2
AA431182	SCN7A	sodium channel, voltage-gated, type VII, alpha
AA136184	KCNH8	potassium inwardly-rectifying channel, subfamily J, member 8
AA036956	KCNH8	potassium inwardly-rectifying channel, subfamily J, member 8
AI100647	KCNH8	potassium inwardly-rectifying channel, subfamily J, member 8
HE1821	PLD2	phosphatidylinositol 3-kinase-related domain containing 11
AA451865	CLIC3	chloride channel, subfamily G, member 1
AI190889	ATP8V1A	ATPase, H ⁺ transporting, lysosomal 70kDa, VI subunit A
AI182881	ATP8V1A	ATPase, H ⁺ transporting, lysosomal 70kDa, VI subunit A
HE1810	CLIC3	chloride channel 3
AA459710	CLIC3	chloride channel 3
AI182114	CLIC3	chloride channel 3
HE6520	TPP2	**inositol 1,4,5-trisphosphate receptor, type 2
AA479093	TPP2	**inositol 1,4,5-trisphosphate receptor, type 2
HE3661	TPP2	**inositol 1,4,5-trisphosphate receptor, type 2
AA487851	CUL5	Cullin 5
AA044147	P2RX5	purinergic receptor P2X2, ligand-gated ion channel, 5
HE3493	ORP1	Aa channel tetramerization protein
AA460728	VMC3	voltage-dependent anion channel 3
HE1473	KCNJ7	potassium inwardly-rectifying channel, subfamily J, member 2
AA134384	CUL5	Cullin 5
AA107436	ANKA7	**Ankemin A7
HE1810	ANKA7	**Ankemin A7
AI102813	TRPM7	**transient receptor potential cation channel, subfamily M, member 7
AI103114	TRPM7	**transient receptor potential cation channel, subfamily M, member 7
HE1415	CLIC3	chloride intracellular channel 3
HE4813	VMC2	voltage-dependent anion channel 2
AA044059	VMC2	voltage-dependent anion channel 2
HE3822	KCNJ2	hyperpolarization-activated cyclic nucleotide-gated potassium channel 1
AA467172	TRPA1	**transient receptor potential cation channel, subfamily A, member 1
HE4766	KCNMB1	potassium voltage-gated channel, shaker-related subfamily, beta member 1
AA113094	KCNMB1	potassium voltage-gated channel, shaker-related subfamily, beta member 1
AI111809	CLIC2	chloride intracellular channel 2
HE2201	CLIC2	chloride intracellular channel 2
AI109341	KCNH3	potassium voltage-gated channel, shaker-related subfamily, member 3
AA144801	KCNH3	potassium voltage-gated channel, shaker-related subfamily, member 3
AA086475	CUL5	Cullin 5
AI109341	KCNH3	potassium voltage-gated channel, shaker-related subfamily, member 3
AA144801	KCNH3	potassium voltage-gated channel, shaker-related subfamily, member 3
AA101976	TPP3	**inositol 1,4,5-trisphosphate receptor, type 3
HE18205	TPP3	**inositol 1,4,5-trisphosphate receptor, type 3
AA095093	NOL4	nucleolar protein family A, member 1/NACA small nuclear RNAs
AA134607	TRPM7	**transient receptor potential cation channel, subfamily M, member 7
TRP645	KCTD5	potassium channel tetramerization domain containing 5
AA17488	KCTD5	potassium channel tetramerization domain containing 5
AI168710	KOHL	MAP3K cascade 1
AI173182	KCNJ10	potassium channel, subfamily J, member 10
AA017112	TRPC1	transient receptor potential cation channel, subfamily C, member 1
HE4063	GABRB1	gamma-aminobutyric acid GABA A receptor, beta 1
AI155379	TRPC1	transient receptor potential cation channel, subfamily C, member 1
AA163116	TRPA1	tumor necrosis factor, alpha-induced protein 1, endothelial
AA188792	PLD2	phosphatidylinositol 3-kinase-related domain containing 11
AA447727	PLI12770	hypothetical protein FLI2770
HE1471	CLIC4	chloride intracellular channel 4
W14471	CNMG1	cyclic nucleotide-gated channel alpha 1
AA437058	KCNMB1	potassium voltage-gated channel, shaker-related subfamily, beta member 1
AI164871	ATP8V1B1	ATPase, H ⁺ transporting, lysosomal 56/58kDa, VI subunit B, isoform 1
AA104159	ATP8V1B1	ATPase, H ⁺ transporting, lysosomal 56/58kDa, VI subunit B, isoform 1
AA023671	SLC9A5	solute carrier family 9 sodium/hydrogen exchanger, isoform 2
HE9727	CLIC5	chloride channel 5/superoxide channel 2, X-linked, Dent disease
HE6443	KCNMB1	**calcium channel, voltage-dependent, alpha 1B subunit
AI140031	TRPA1	**transient receptor potential cation channel, subfamily A, member 1
AI150825	KCNH1	potassium voltage-gated channel, Shal-related subfamily, member 1
HE1818	CLIC6	chloride channel 6
AA431192	TPP1	transmembrane phosphatase with tannin homology
AI107102	KCNH4	potassium voltage-gated channel, Shal-related subfamily, member 4
AI121776	KCNH1	potassium channel, subfamily H, member 1
HE2620	KCNH1	potassium channel, subfamily H, member 1
HE4848	AP3L	apical protein-like domain family 1
HE2926	CACNA1D	calcium channel, voltage-dependent, L type, alpha 1D subunit
AI14383	KCNMB2	potassium voltage-gated channel, Shal-related subfamily, member 2
HE4334	GABRA2	gamma-aminobutyric acid GABA A receptor, alpha 2
HE1710	GABRA2	gamma-aminobutyric acid GABA A receptor, alpha 2
HE2765	KCNMB1	potassium voltage-gated channel, Shal-related subfamily, member 1
AA159316	CLIC4	chloride channel 4
AA443074	TRPM40	translocase of outer mitochondrial membrane 40 homolog yeast
HE1514	GRIN2C	glutamate receptor, ionotropic, N-methyl D-aspartate 2C
HE3103	SCN1B	sodium channel, voltage-gated, type I, beta
HE1736	FXR3	FXR domain containing ion transport regulator 1 phospholeman
HE1826	CACNB3	calcium channel, voltage-dependent, beta 3 subunit
HE1820	CLIC4	chloride channel 4/superoxide channel 2, X-linked, Dent disease
AA118500	CLIC4	chloride channel 4/superoxide channel 2, X-linked, Dent disease
HE1834	TRPM21	transmembrane 4 superfamily member 11/plasminogen
AA176716	GABRA1	gamma-aminobutyric acid GABA A receptor, alpha 1
HE1801	SLC9A6	solute carrier family 9 sodium/hydrogen exchanger, isoform 6
HE1376	KCNH4	potassium voltage-gated channel, Shal-related subfamily, member 4
HE1768	KCNQ3	potassium voltage-gated channel, KCQ-like subfamily, member 3
AI107388	ACCE1	acidic-sensitive cation channel 2, neuronal
HE1791	TRP2	transient receptor 2 cardiac
HE1854	KCNQ3	potassium voltage-gated channel, KCQ-like subfamily, member 3
AA093385	SLC9A9	solute carrier family 9 sodium/hydrogen exchanger, isoform 9
AA481319	KCTD11	potassium channel tetramerization domain containing 11
HE4371	KCTD2	potassium channel tetramerization domain containing 2
HE1813	KCNH1	potassium voltage-gated channel, Shal-related subfamily, member 1

f. Extracellular matrix



g. Cell adhesion



