Rect Abdominis (M) (24-83) Rect Abdominis (F) (29-81) S Airway Epith (F) (22-62) S Airway Epith (M) (29-73) Airway Epith (M) (31-61) Temporal Lobe (F) (26-99) Temporal Lobe (M) (20-97) Vast Lateral B (M) (32-71) Vast Lateral C (M) (32-71) Vast Lateral A (M) (32-71) Parietal Lobe (M) (20-97 Frontal Lobe (M) (20-97) Frontal Lobe (F) (26-99) A) Females Age-increased Genes Parotid Gland (19-69) Trachea (M) (34-60) Vast Lateral A (?) Vast Lateral B (?) Blood (M) (18-54) Blood (F) (17-40) Skin (M) (18-60) Blood (F) (7-63) Skin (F) (18-75) Blood (23-64) Blood (ribonucleoprotein complex assembly [25] cell projection organization [87] axon guidance [25] neuron projection morphogenesis [52] cell morphogenesis with neuron differentiation [47] neuron differentiation [90] V neurogenesis [104] brain development [47] lackeye morphogenesis [20] cell part morphogenesis [60] cell morphogenesis [85] lack• muscle contraction [43] pos regul I-kappaB kinase/NF-kappaB cascade [29] positive regulation of signal transduction [73] protein kinase cascade [110] negative regulation of cell proliferation [78] ▲ regulation of protein kinase activity [71] regulation of phosphorylation [94] ▼ pos regulation of phosphate metabolic process [23] lackregulation of phosphorus metabolic process [96] \blacktriangle ▼ $\overline{\blacktriangle}$ \blacktriangle positive regulation amino acid phosphorylation [23] ▼ \blacksquare lacklacktriangleregulation of protein modification process [69] ▼ ▼ positive regulation of protein metabolic process [57] regulation of primary metabolic process [605] ▼ ▼ immune response-activating signal transduction [18] positive regulation of immune response [32] ▲ positive regulation of response to stimulus [54] ▼ regulation of system process [50] nuclear mRNA splicing, via spliceosome [31] RNA splicing [86] mRNA metabolic process [95] \blacksquare regulation of intracellular protein transport [16] regulation of establishment of protein localization [30] regulation of cellular localization [45] lackprotein localization in nucleus [36] lack▲ $\overline{\blacktriangle}$ nuclear import [35] lacknuclear transport [53] ▼ \blacksquare cellular di-, tri-valent inorganic cation homeostasis [45] cation homeostasis [54] chemical homeostasis [85] defense response [101] immune response [135] response to endogenous stimulus [93] behavior [77] response to peptide hormone stimulus [38] response to steroid hormone stimulus [42] cellular response to hormone stimulus [35] response to glucocorticoid stimulus [20] response to cytokine stimulus [26] enzyme linked receptor protein signaling pathway [95]

Average 40-Year Fold Change (Old / Young)

> 1.251.20 - 1.25

1.15 - 1.201.10 - 1.15

1.05 - 1.10

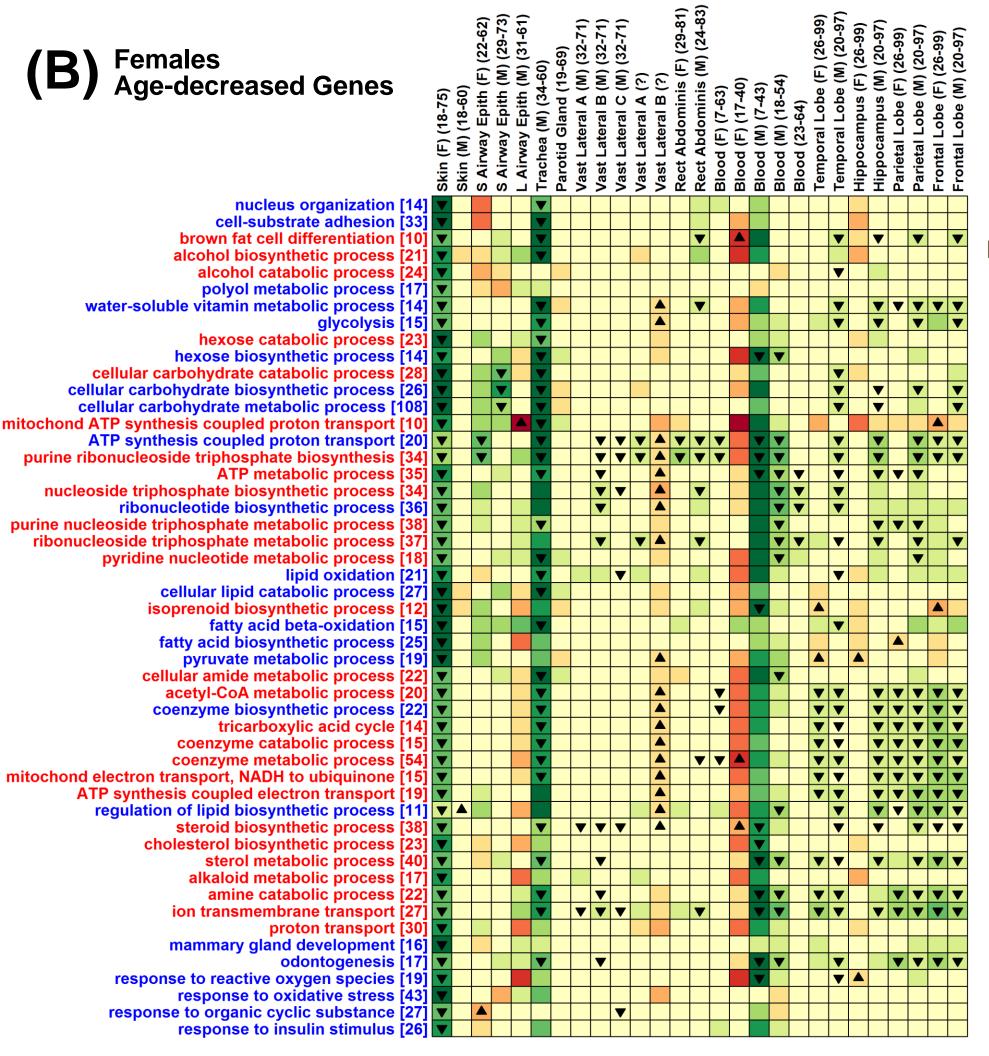
0.95 - 1.050.90 - 0.95

0.85 - 0.90

0.80 - 0.85

0.75 - 0.80

< 0.75



Average 40-Year Fold Change (Old / Young)

> 1.251.20 - 1.25

1.15 - 1.201.10 - 1.15

1.05 - 1.10

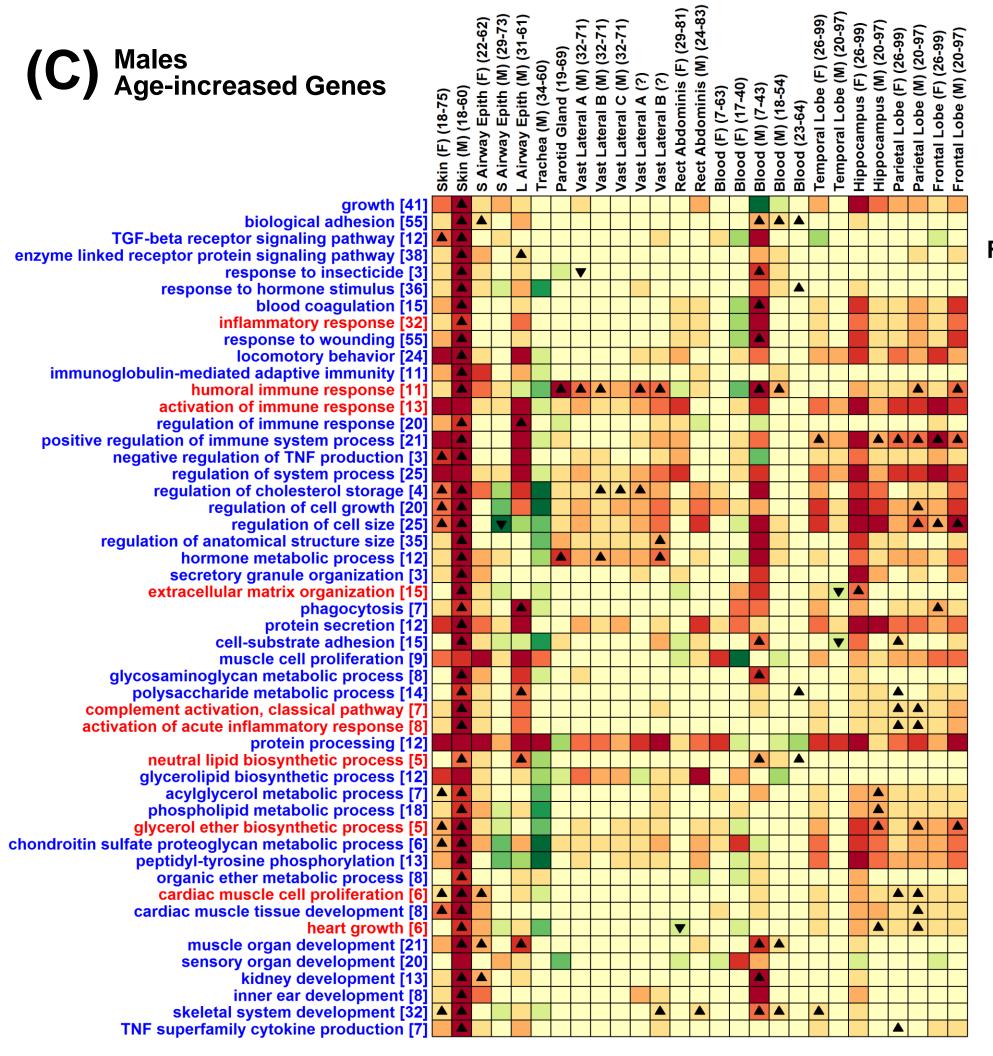
0.95 - 1.05

0.90 - 0.95 0.85 - 0.90

0.80 - 0.85

0.75 - 0.80

< 0.75



Average 40-Year Fold Change (Old / Young)

■ > 1.25 ■ 1.20 - 1.25

1.15 - 1.20

1.10 - 1.15

1.05 - 1.10

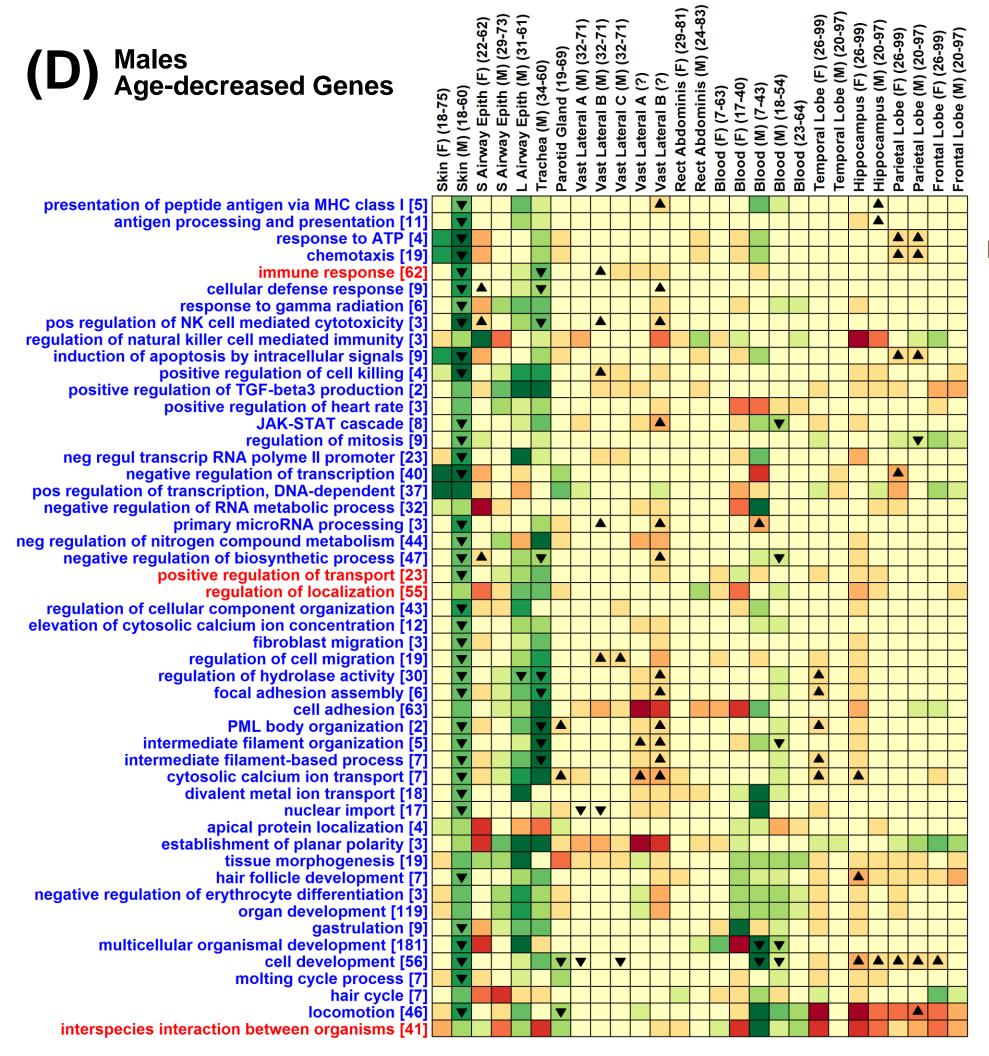
0.95 - 1.050.90 - 0.95

0.85 - 0.90

0.80 - 0.85

0.75 - 0.80

< 0.75



Average 40-Year Fold Change (Old / Young)

1.25

1.20 - 1.25

■ 1.15 - 1.20 ■ 1.10 - 1.15

1.05 - 1.10

0.95 - 1.05

0.90 - 0.95

0.85 - 0.900.80 - 0.85

0.75 - 0.80

< 0.75