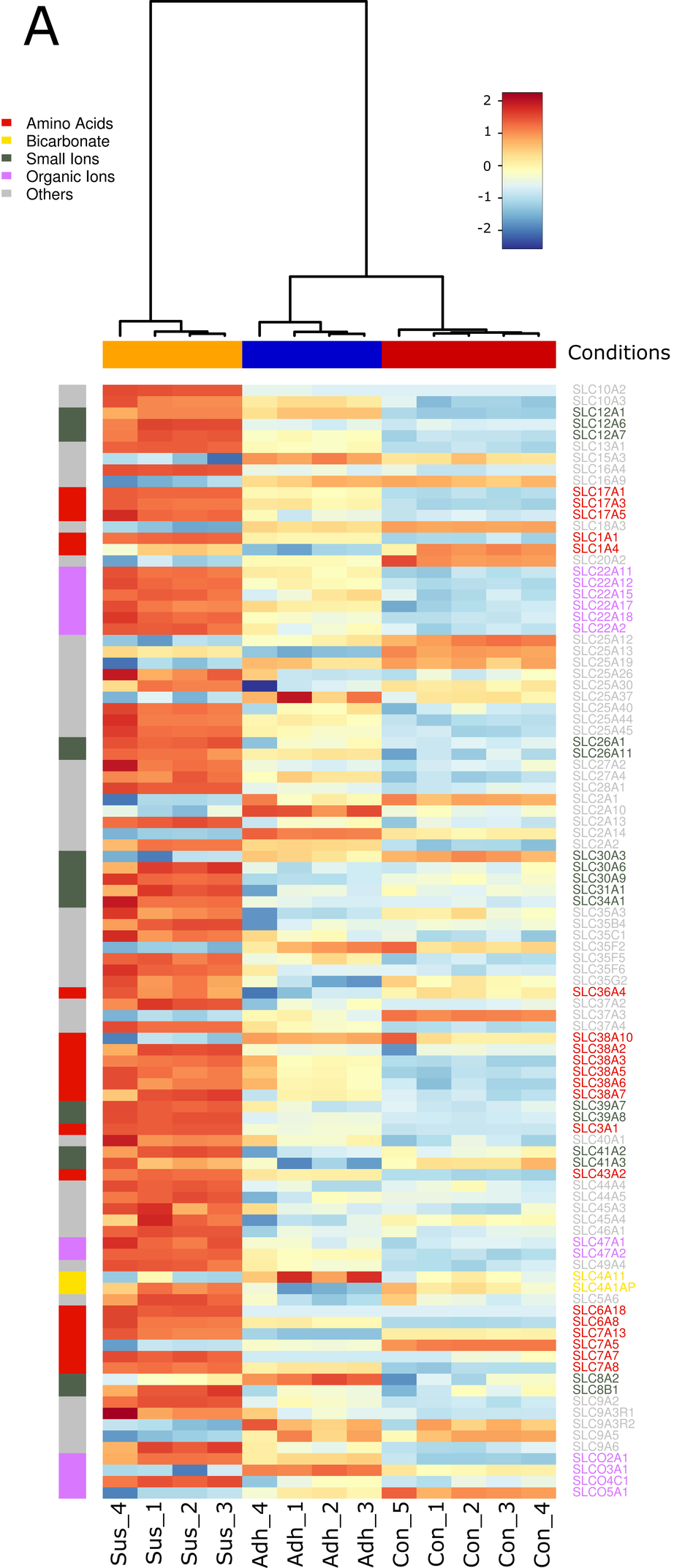
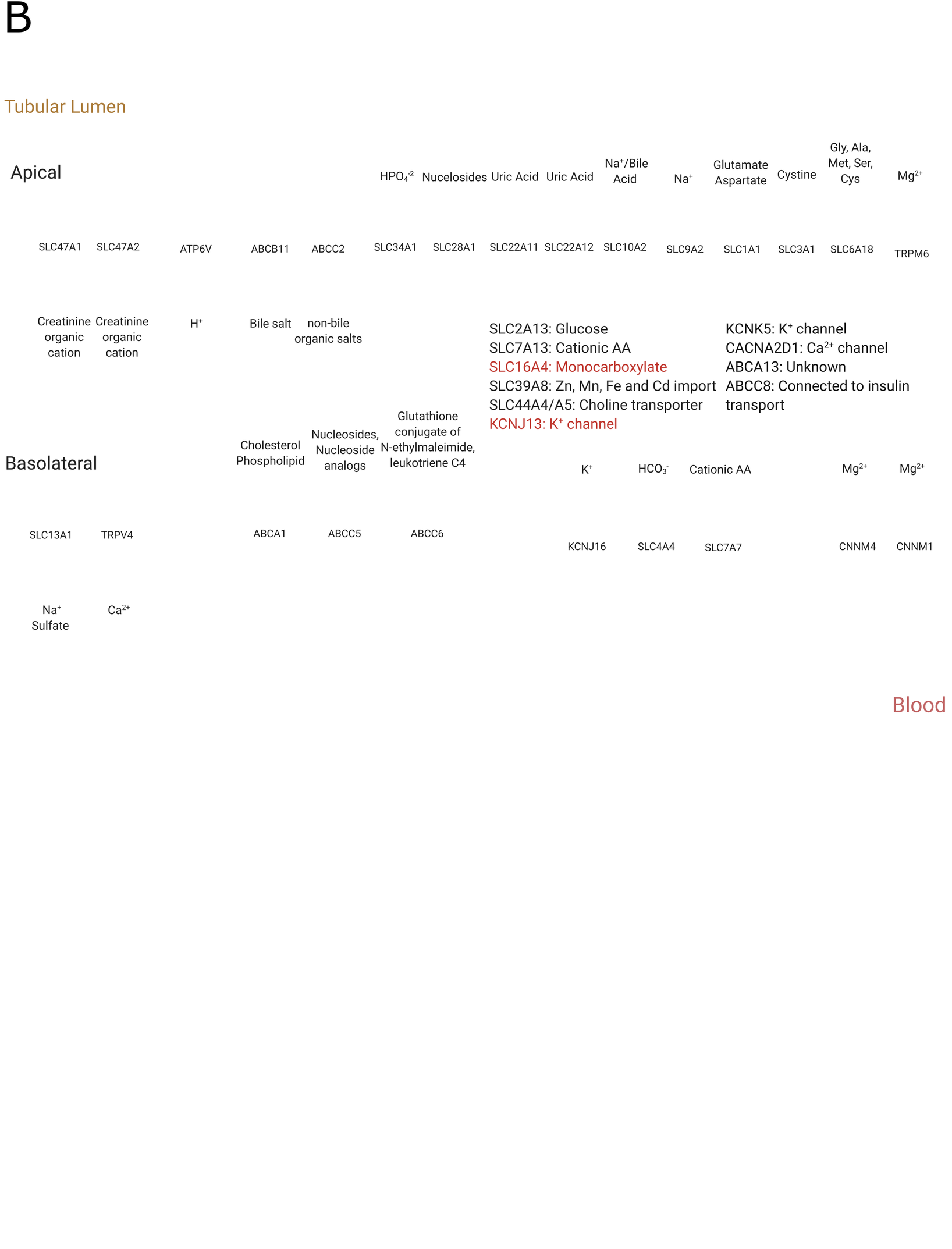
A


Amino Acids
Bicarbonate
Small Ions
Organic Ions
Others
2
1
0
-1
-2
Conditions
SLC10A2
SLC10A3
SLC12A1
SLC12A6
SLC12A7
SLC13A1
SLC15A3
SLC16A4
SLC16A9
SLC17A1
SLC17A3
SLC17A5
SLC18A3
SLC1A1
SLC1A4
SLC20A2
SLC22A11
SLC22A12
SLC22A15
SLC22A17
SLC22A18
SLC22A2
SLC25A12
SLC25A13
SLC25A19
SLC25A26
SLC25A30
SLC25A37
SLC25A40
SLC25A44
SLC25A45
SLC26A1
SLC26A11
SLC27A2
SLC27A4
SLC28A1
SLC2A1
SLC2A10
SLC2A13
SLC2A14
SLC2A2
SLC30A3
SLC30A6
SLC30A9
SLC31A1
SLC34A1
SLC35A3
SLC35B4
SLC35C1
SLC35F2
SLC35F5
SLC35F6
SLC35G2
SLC36A4
SLC37A2
SLC37A3
SLC37A4
SLC38A10
SLC38A2
SLC38A3
SLC38A5
SLC38A6
SLC38A7
SLC39A7
SLC39A8
SLC3A1
SLC40A1
SLC41A2
SLC41A3
SLC43A2
SLC44A4
SLC44A5
SLC45A3
SLC45A4
SLC46A1
SLC47A1
SLC47A2
SLC49A4
SLC4A11
SLC4A1AP
SLC5A6
SLC6A18
SLC6A8
SLC7A13
SLC7A5
SLC7A7
SLC7A8
SLC8A2
SLC8B1
SLC9A2
SLC9A3R1
SLC9A3R2
SLC9A5
SLC9A6
SLCO2A1
SLCO3A1
SLCO4C1
SLCO5A1
Sus_4
Sus_1
Sus_2
Sus_3
Adh_4
Adh_1
Adh_2
Adh_3
Con_5
Con_1
Con_2
Con_3
Con_4

B


Tubular Lumen
Apical
HPO_4^{-2}
Nucelosides
Uric Acid
Uric Acid
Na^+/Bile Acid
Na^+
Glutamate Aspartate
Cystine
Gly, Ala, Met, Ser, Cys
Mg^{2+}
SLC47A1
SLC47A2
ATP6V
ABCB11
ABCC2
SLC34A1
SLC28A1
SLC22A11
SLC22A12
SLC10A2
SLC9A2
SLC1A1
SLC3A1
SLC6A18
TRPM6
Creatinine organic cation
Creatinine organic cation
H^+
Bile salt
non-bile organic salts
SLC2A13: Glucose
SLC7A13: Cationic AA
SLC16A4: Monocarboxylate
SLC39A8: Zn, Mn, Fe and Cd import
SLC44A4/A5: Choline transporter
KCNJ13: K^+ channel
KCNK5: K^+ channel
CACNA2D1: Ca^{2+} channel
ABCA13: Unknown
ABCC8: Connected to insulin transport
Basolateral
Cholesterol Phospholipid
Nucleosides, Nucleoside analogs
Glutathione conjugate of N-ethylmaleimide, leukotriene C4
K^+
HCO_3^-
Cationic AA
Mg^{2+}
Mg^{2+}
SLC13A1
TRPV4
ABCA1
ABCC5
ABCC6
KCNJ16
SLC4A4
SLC7A7
CNNM4
CNNM1
Na^+ Sulfate
Ca^{2+}
Blood