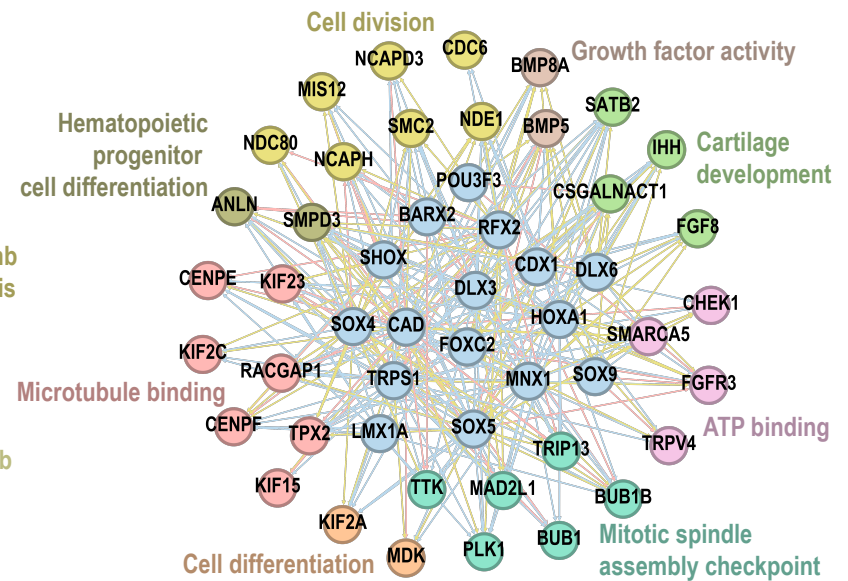
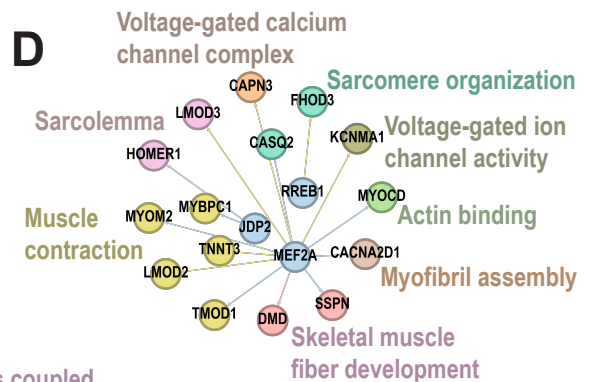
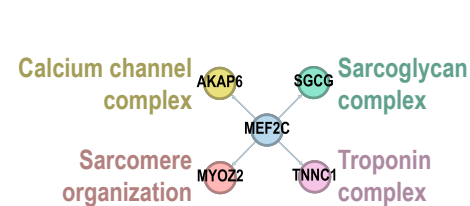


[illegible]

A network diagram with Nrf5a2 at the center, connected to six other genes: MICALL1, TRPM8, WIPF3, SMYD1, HTR4, and RASL10B. Each gene is represented by a colored circle, and each is associated with a biological process label in a matching color. The labels are: MICALL1 (Metal ion binding), TRPM8 (Divalent metal ion transport), WIPF3 (Actin filament-based movement), SMYD1 (Positive regulation of myotube differentiation), HTR4 (G protein-coupled receptor activity), and RASL10B (GTPase activity).



Acetyl-CoA biosynthetic process

AMP metabolic process

ATPase activity

Defense response to Gram-positive bacterium

Mitochondrion

Reactive oxygen species metabolic process

Inflammatory response

Negative regulation of satellite cell differentiation

Melanosome

Key genes: AK1, ACSS2, DCT, PMEL, ASAH2, CFTR, CARN1, IRF2, PARK2, ADHFE1, SOX10, HHEX, BCL2, IDH2, GATB, SNCA, SDC4, HGF, AGTR1, CRH, AGTR2, BNIP3, CATH1, KLF10, NR4A1, HYAL1, U2RX7.

ATP synthesis coupled proton transport

Mitochondrial respiratory chain complex I

Mitochondrial respiratory chain complex III

Electron transfer activity

Tricarboxylic acid cycle

Malate metabolic process

Mitochondrial respiratory chain complex IV

Electron transport chain

Glucose metabolic process

Glycogen metabolic process

Glycogen biosynthetic process

Mitochondrion

Pyruvate metabolic process

Glycolytic process

Respiratory electron transport chain

Legend: PC (red line), PC (yellow line), PC (blue line)

