Unraveling the regulatory mechanisms underlying tissue-dependent genetic variation of gene expression

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\[ \text{rho} = 0.67 \]
The image shows a scatter plot with the x-axis labeled as chromosome 1. The y-axis represents Z score. There are two lines indicating a threshold. The plot compares data from Blood and Liver samples. The correlation coefficient (rho) is given as 0.54.
CHRNA4

Z score

Blood
Liver

rho = −0.14
Z score

chro

om

e1

3

4

109000000 109500000 110000000 110500000

Blood

Liver

rho = -0.06
Z score

Blood
Liver

cM/Mb

CYP4F2

rho = −0.17
Z score

Blood
Liver

rho = 0.91
Z score

chromosome17

Blood

Liver

rho = 0.53
Z score

Blood
Liver

rhop = 0.02
Z score vs. chromosome22

Blood and Liver samples plotted with Z scores. The correlation coefficient (rho) is 0.41.
Z score

Blood
Liver

cM/Mb

NDFIP1

rho = −0.01

Liver

Blood
Z score

Blood
Liver

rho = 0.57
Z score vs. cM/Mb for chromosome 1.

Plot showing the distribution of Z scores for Blood and Liver genotypes. The Z score values range from -5 to 5 on the y-axis and -50 to 50 on the x-axis. The NPHP4 locus is indicated.

Correlation coefficient (rho) for Blood and Liver genotypes is 0.33.
Z score

Blood
Liver

rho = −0.09
chromosome5

Z score

Blood
Liver

cM/Mb

PPIC

0.0 0.2 0.4 0.6

0 1 2 3 4 5

121500000 122000000 122500000 123000000

rho = −0.04

Liver
Blood

0 1 2 3 4 5

0.0 0.2 0.4 0.6
Z score

Blood
Liver

chromosome13

rho = 0.08
chr14

Z score

Blood
Liver

cM/Mb

RAD51L1

0 1 2 3 4

0 10 20 30 40 50

ρ = 0.11
Z score

Blood
Liver

chromosome19

rho = 0.39
Z score

Blood
Liver

scg5
ho = −0.05
Z score

Blood
Liver

rho = −0.24
The figure shows a scatter plot with two axes: Z score on the y-axis and cM/Mb on the x-axis. Points are color-coded by tissue type—blood in orange and liver in blue. A dashed green line indicates the Z score threshold. The correlation coefficient (rho) is -0.02.
Z score

SLC39A8

rho = 0.75
Z score

Blood
Liver

SLC7A9

rho = 0.05
The image shows a scatter plot and a correlation plot.

The scatter plot on the right illustrates the correlation between Blood and Liver with a correlation coefficient $\rho = -0.06$.

The scatter plot on the left displays the Z score against chromosome 5, with data points indicating Blood and Liver distributions.
Z score

Blood
Liver

cM/Mb

SORT1

rho = −0.14

Liver

Blood

rho = −0.14
$\rho = 0.39$
Z score

Blood
Liver

cM/Mb

sult2a1

rho = 0.12
Liver Blood

Z score

\[ \rho = -0.07 \]
Z score

Liver
Blood
chromosome2

\[ \rho = 0.53 \]
Z score

chromosome16

Blood

Liver

VKORC1

\[ \text{rho} = 0.67 \]