Metastatic cells 5-8F mitochondrial proteins (M)

Nonmetastatic cells 6-10B mitochondrial proteins (N)

Internal standard (M + N; M : N = 1 : 1)

50µg 50µg 50µg 50µg 50µg 50µg 50µg 50µg 50µg

Cy3
Cy5
Cy3
Cy5
Cy3
Cy5
Cy2
Cy2
Cy2

Gel 1
Gel 2
Gel 3

Cy2 image
Cy3 image
Cy5 image
Cy2 image
Cy3 image
Cy5 image
Cy2 image
Cy3 image
Cy5 image

Ratio (M) = \( \frac{n_{Cy3}}{n_{Cy2}} \)

Ratio (N) = \( \frac{n_{Cy5}}{n_{Cy2}} \)

Ratio (M) = \( \frac{n_{Cy3}}{n_{Cy2}} \)

Ratio (N) = \( \frac{n_{Cy5}}{n_{Cy2}} \)

Note: \( n_{Cy2} \) = normalized gel-spot density in each Cy2 image map.
\( n_{Cy3} \) = normalized gel-spot density in each Cy3 image map.
\( n_{Cy5} \) = normalized gel-spot density in each Cy5 image map.

Paired Student’s t-test determines the DEP-contained gel spots (X-fold=5-8F/6-10B>2, \( P<0.05 \))