A.

Y-axis: SAM d-statistic distribution Basal: AU v AI

X-axis: SAM d-statistic distribution AU-S v AI-S

r = -0.09
p = 7.6x10^{-25}

B.

Y-axis: SAM d-statistic distribution Basal: AU v AI

X-axis: SAM d-statistic distribution AU-NS v AI-NS

r = -0.09
p = 6.9 x 10^{-27}

Figure S3. **Spatial and Non-spatial protocols induce expression profiles distinct from basal expression**. **A.** SAM d-statistics for each probeset derived from basal aged dataset AU v AI comparison [14] are plotted on the Y-axis against the corresponding data derived from AU-S v AI-S comparison on the X-axis. A slight negative correlation was found (r=-0.09; p=7.6 x 10^{-25}) that was significant only because of the large number of data points(N>15,000 probesets). The lack of positive correlation indicated little similarity between the spatial and basal profiles. **B.** SAM d-statistics for each probeset derived from basal aged dataset AU v AI comparison are plotted on the Y-axis against the corresponding data derived from the NS data (AU-NS v AI-NS) on the X-axis. A slight negative correlation was found (r=-0.09; p=6.9 x 10^{-27}) that was significant only because of the large number of data points(N>15,000 probesets). The lack of positive correlation indicated little similarity between the NS and basal profiles.