Supplementary Data

Prediction of S-glutathionylated Proteins Progression in Alzheimer’s Transgenic Mouse Model Using Principle Component Analysis

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CALIBRATION CURVE FOR DETERMINATION OF MOLECULAR WEIGHT

Here, \( \mu \) is electrophoretic mobility; \( L \) is capillary length (30 cm); \( T \) is migration time; and \( V \) is applied voltage (–17.1 kV).

\[
\mu = \frac{L^2}{VT} \tag{3}
\]

Equation (3) shows a relationship between the logarithm of molecular mass and electrophoretic mobility for the five standard proteins indicating that the dextrin separation system described in this study is a size-based separation.

\[
y = -16.414x + 6.4574(R^2 = 0.9079) \tag{4}
\]

In hence, the Mw range of protein can be estimated with the calibration curve and migration time.
Supplementary Figure 1. A schematic block diagram describing overall experimental procedure.

Supplementary Figure 2. Transformation of migration time (a) to molecular weight (Mw) value (b). Log of molecular mass of standard proteins as a function of their electrophoretic mobility.
Supplementary Table 1
PCA variance in brain tissues and blood samples

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<th>Cumulative variance (%)</th>
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