Central Lancashire Online Knowledge (CLoK)

Title	Blood-based near-infrared spectroscopy for the rapid low-cost detection of Alzheimer's disease
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1 # Supplementary Information

2 **Blood-based near-infrared spectroscopy for the rapid low-cost detection of**

3 **Alzheimer's disease**

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30 **Table S1:** Equations for calculating the statistical quality parameters. AC: accuracy, SENS:

31 sensitivity, SPEC: specificity, PPV: positive predictive value, NPV: negative predictive value,

32 TP: true positive, TN: true negative, FP: false positive, FN: false negative.

Parameter	Equation
AC (%)	$\left(\dfrac{TP + TN}{TP + FP + TN + FN}\right) \times 100$
SENS (%)	$\left(\dfrac{TP}{TP + FN}\right) \times 100$
SPEC (%)	$\left(\dfrac{TN}{TN + FP}\right) \times 100$
PPV (%)	$\left(\dfrac{TP}{TP + FP}\right) \times 100$
NPV (%)	$\left(\dfrac{TN}{TN + FN}\right) \times 100$

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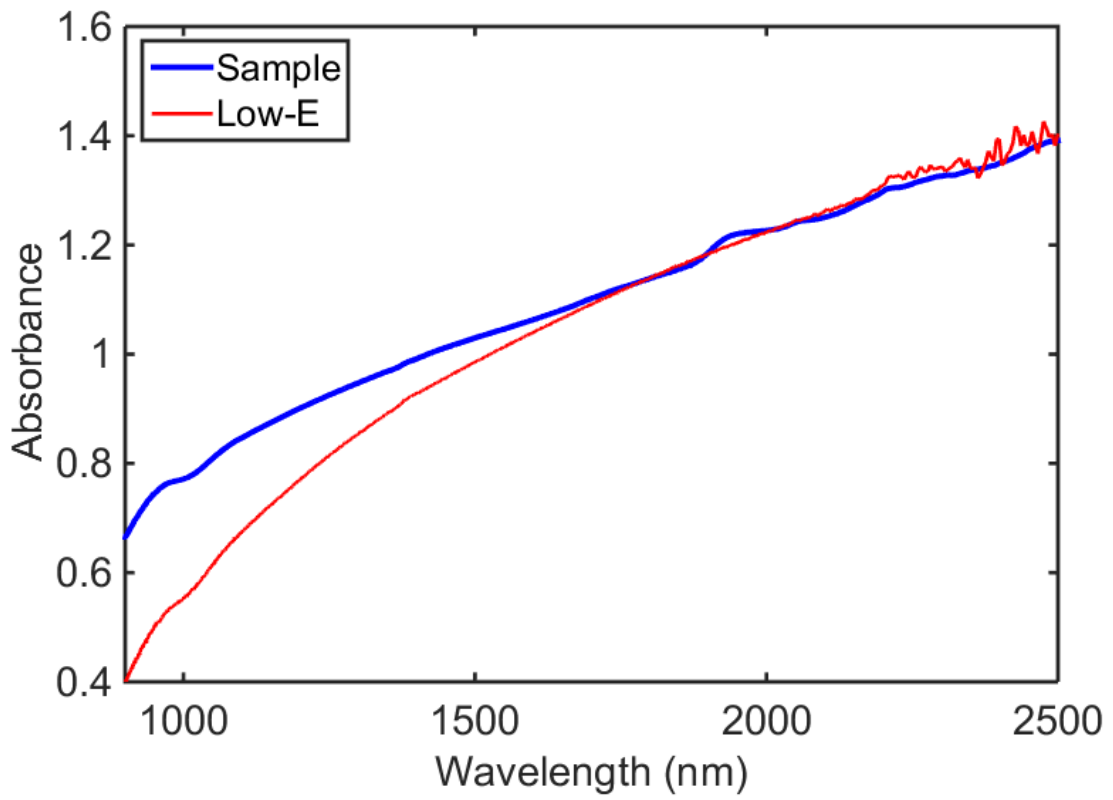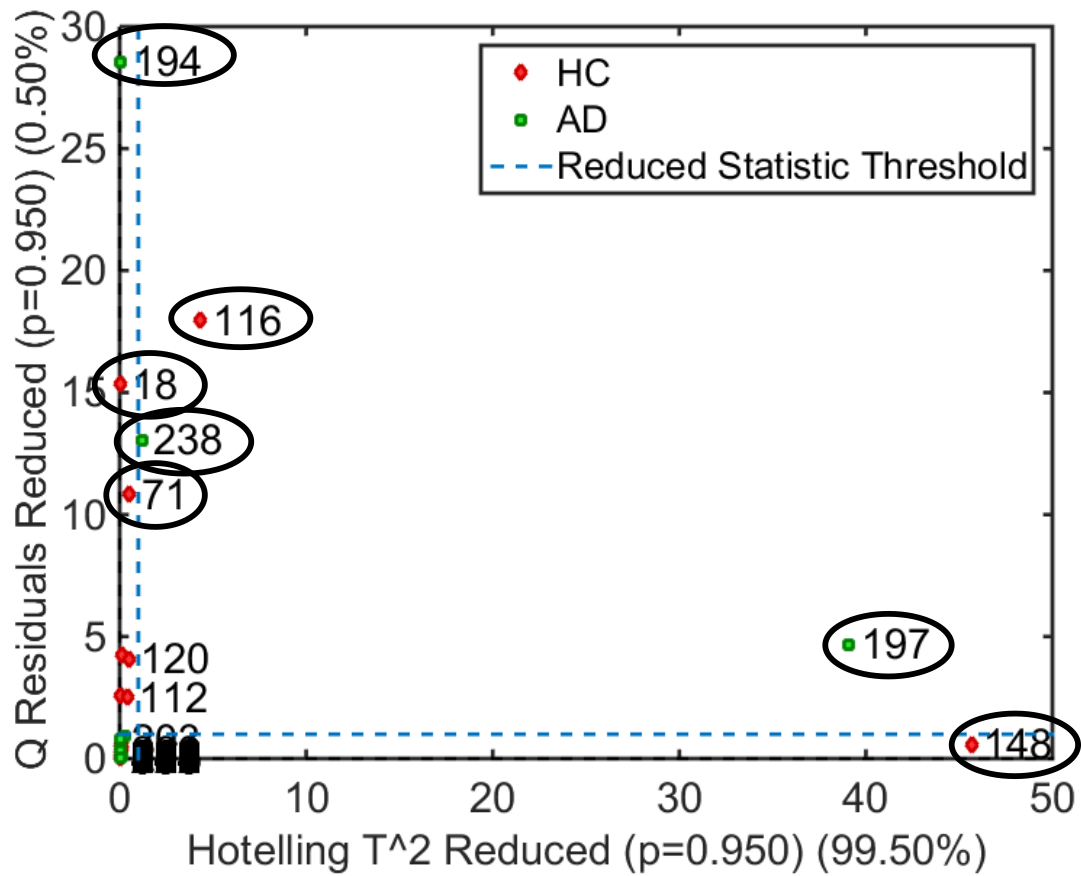
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46   **Figure S1:** Average NIR spectra showing absorbance from the samples and low-E slides.

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48   **Figure S2:** Hotelling T^2 *versus* Q residual test for identifying outliers (circled). Three outliers

49   came from AD and four from HC samples. Numbers correspond to sample codes.