Equation A. 1 The quadratic polynomial model explaining the relationship between the response and variables
$R=\beta_{0}+\beta_{1} A+\beta_{2} B+\beta_{3} C+\beta_{4} D+\beta_{12} A B+\beta_{13} A C+\beta_{14} A D+\beta_{23} B C+\beta_{24} B D+\beta_{34} C D+\beta_{11} A^{2}+\beta_{22} B^{2}+$ $\beta_{33} C^{2}+\beta_{44} D^{2}$
where $R$ is the response; $\beta_{0}$ is the constant term; $\beta_{1}, \beta_{2}, \beta_{3}$ and $\beta_{4}$ are coefficients of linear terms; $\beta_{12}, \beta_{13}, \beta_{14}, \beta_{23}, \beta_{24}$ and $\beta_{34}$ are coefficients of interaction terms; $\beta_{11}, \beta_{22}$, $\beta_{33}$ and $\beta_{44}$ are coefficients of quadratic terms; and $A, B, C$ and $D$ are the variables.

