Equation A.1 The quadratic polynomial model explaining the relationship between the response and variables

$$R = \beta_0 + \beta_1 A + \beta_2 B + \beta_3 C + \beta_4 D + \beta_{12} A B + \beta_{13} A C + \beta_{14} A D + \beta_{23} B C + \beta_{24} B D + \beta_{34} C D + \beta_{11} A^2 + \beta_{22} B^2 + \beta_{33} C^2 + \beta_{44} D^2$$
(1)

where *R* is the response; β_0 is the constant term; β_1 , β_2 , β_3 and β_4 are coefficients of linear terms; β_{12} , β_{13} , β_{14} , β_{23} , β_{24} and β_{34} are coefficients of interaction terms; β_{11} , β_{22} , β_{33} and β_{44} are coefficients of quadratic terms; and *A*, *B*, *C* and *D* are the variables.