

Figure S1. The growing plants of *L. leucocephala* in our research.

Figure S2. The chemical structures of nineteen identified metabolites. The notations of 1-19 were corresponding to different metabolites as listed in Table 1.

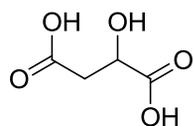
Figure S3. The  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectra of mimosine (14), quercetin (15), and quercetin-3-*O*- $\alpha$ -rhamnoside (16).

Figure S4. The summary of fits of PLS-DA models of JA, MeJA, CGM and control, respectively, when two components were calculated.

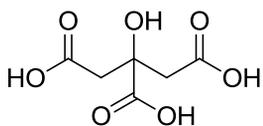
Figure S5. The permutations plots of JA, MeJA, JA-Ile and CGM treatments were performed, respectively, in order to validate PLS-DA model, with 200 permutations and two components calculated.



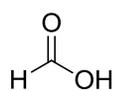
**Figure S1**



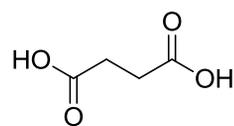
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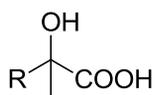
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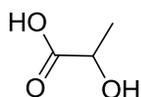
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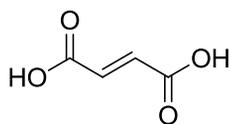
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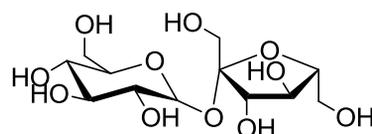
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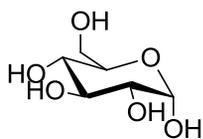
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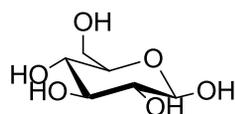
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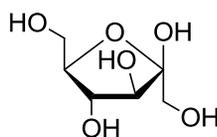
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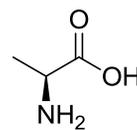
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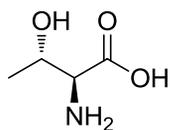
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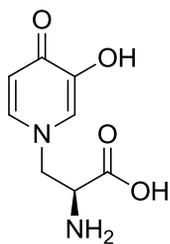
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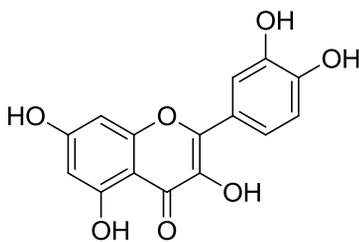
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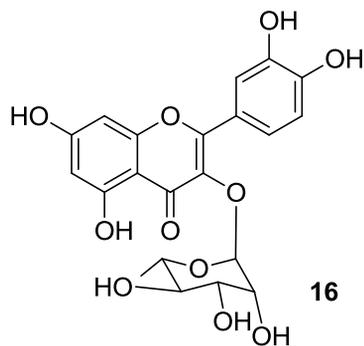
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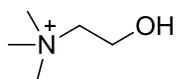
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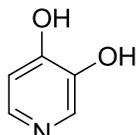
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19

Figure S2

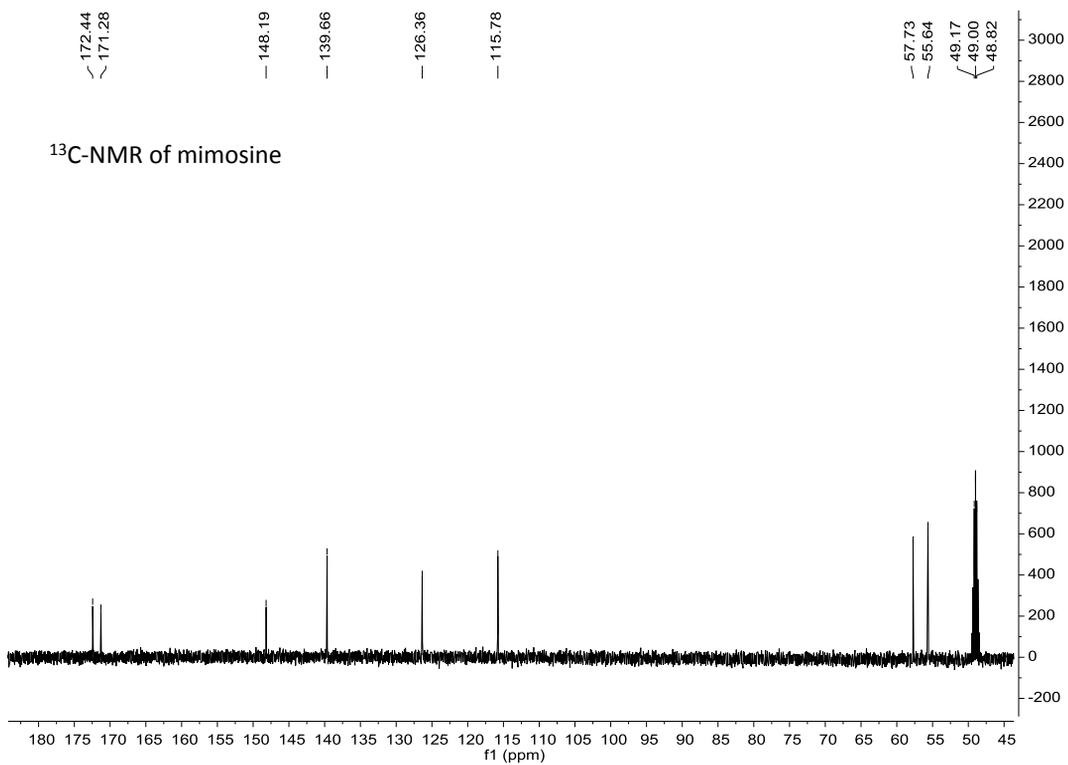
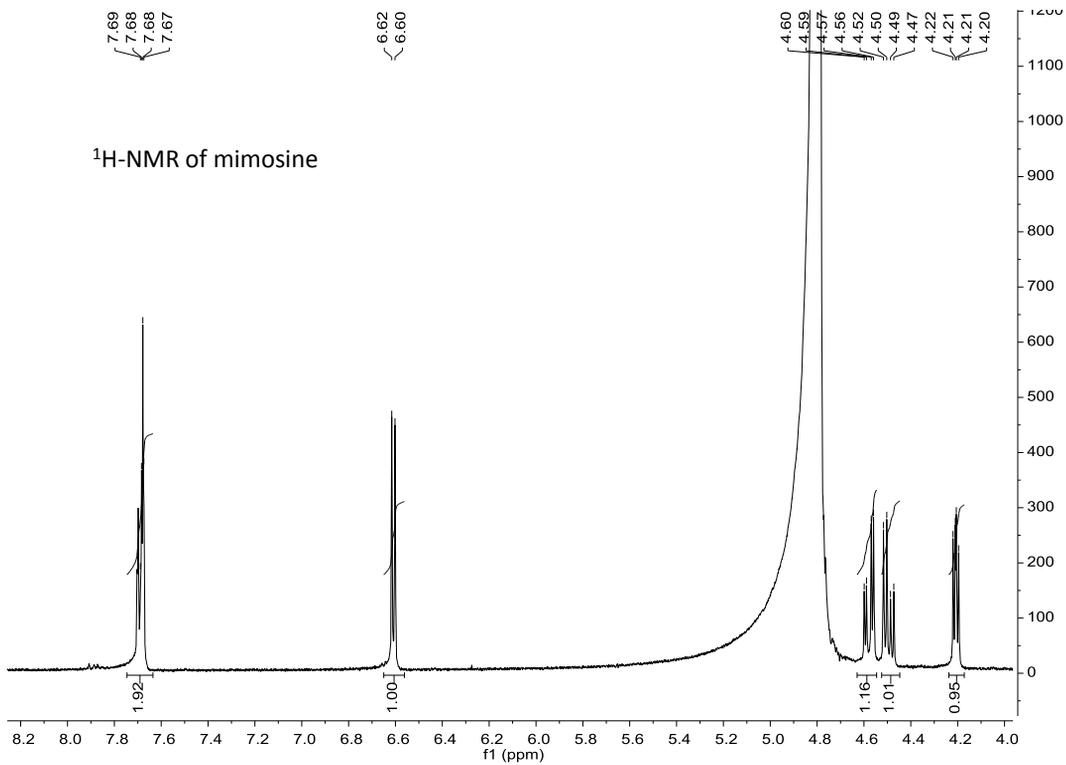


Figure S3

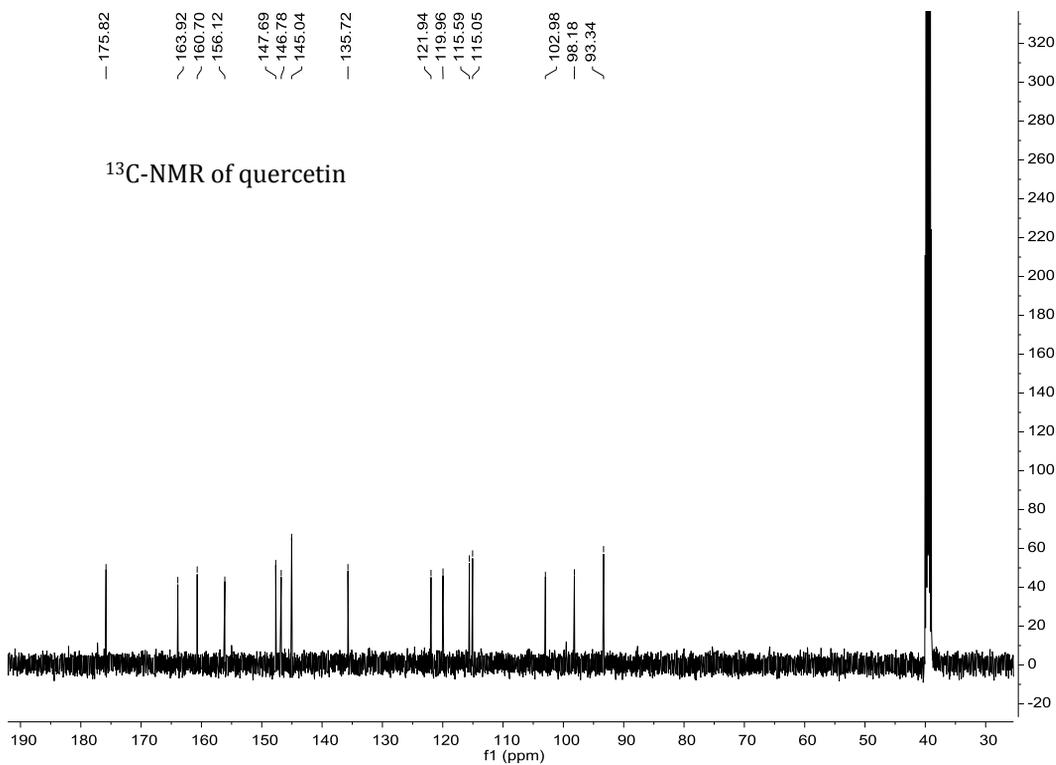
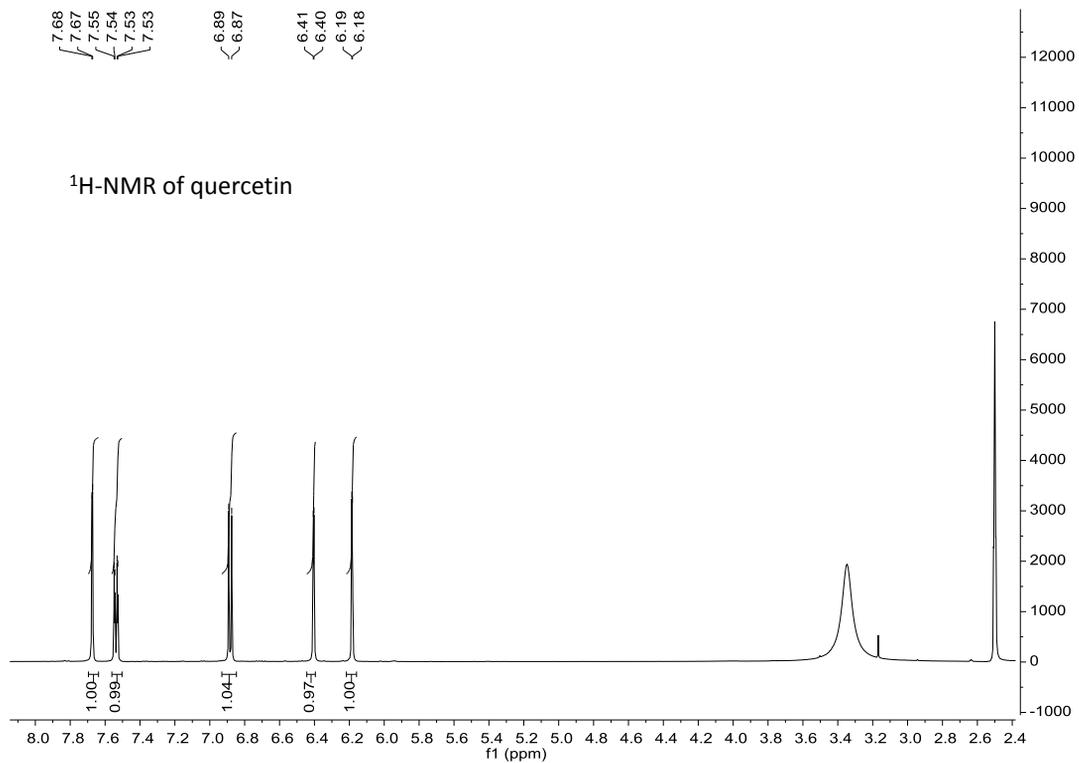


Figure S3

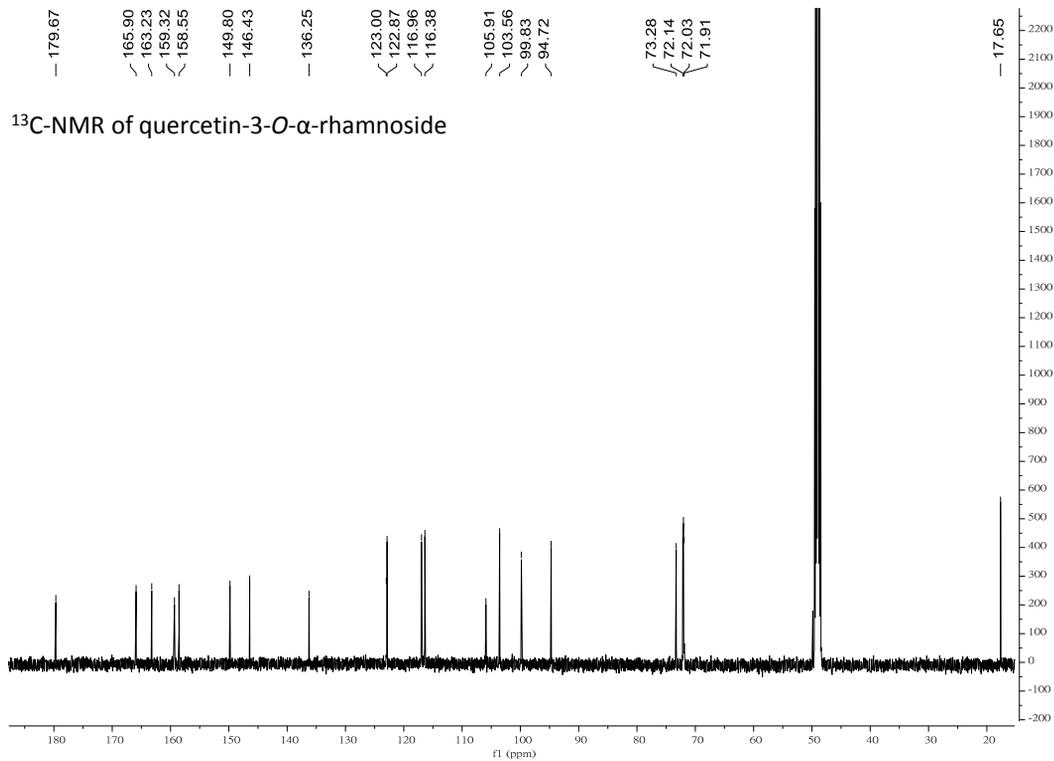
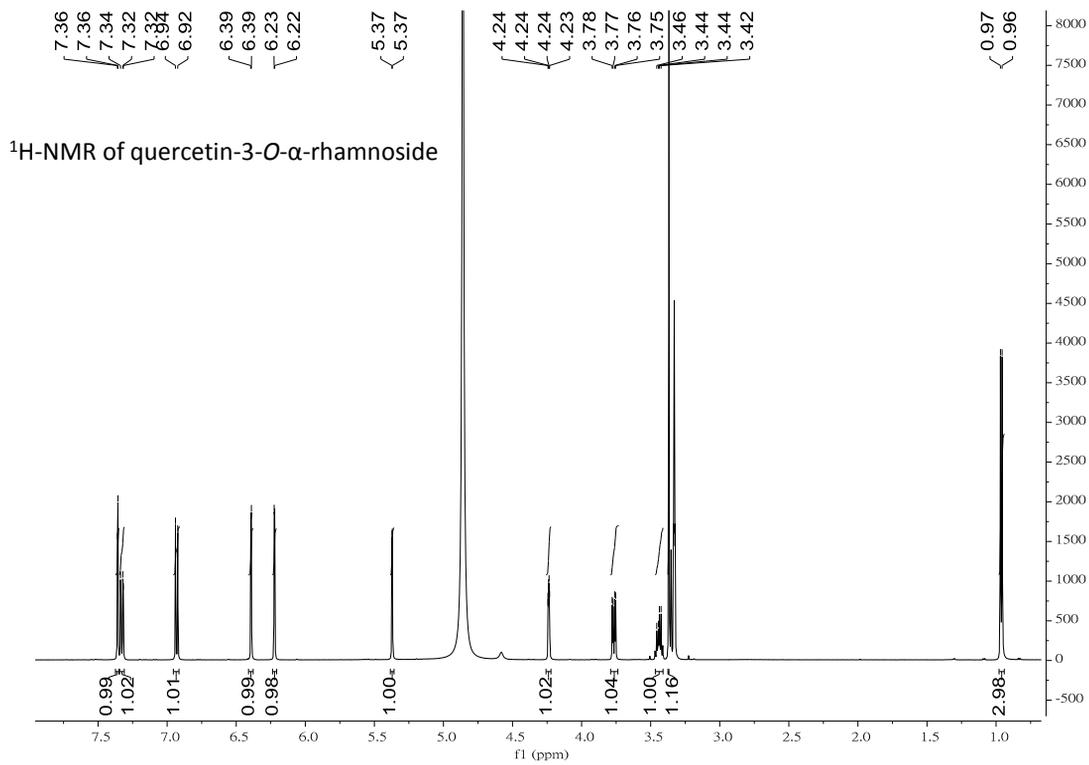


Figure S3

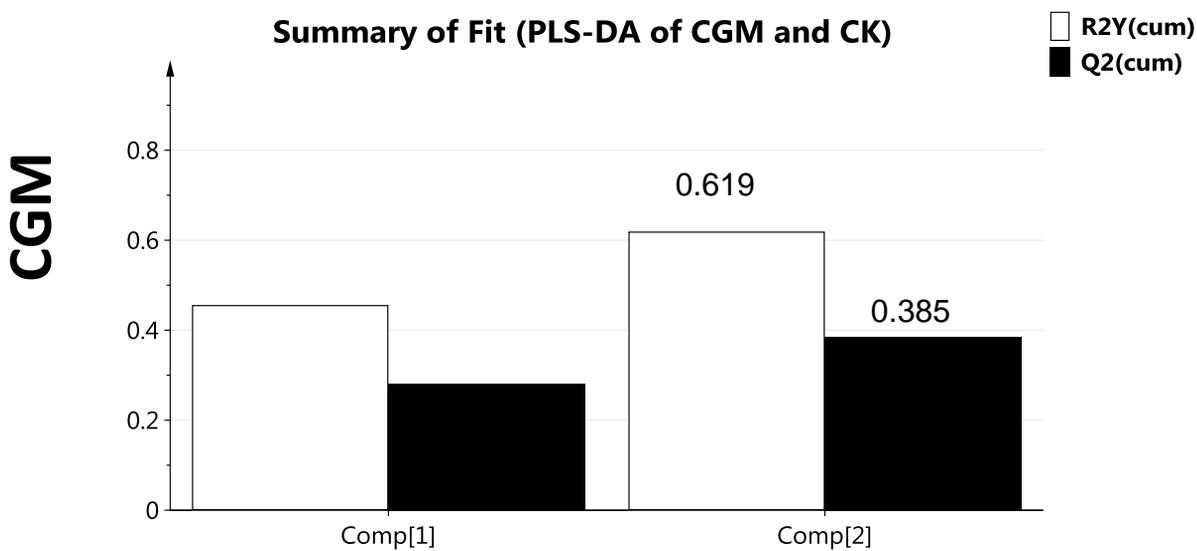
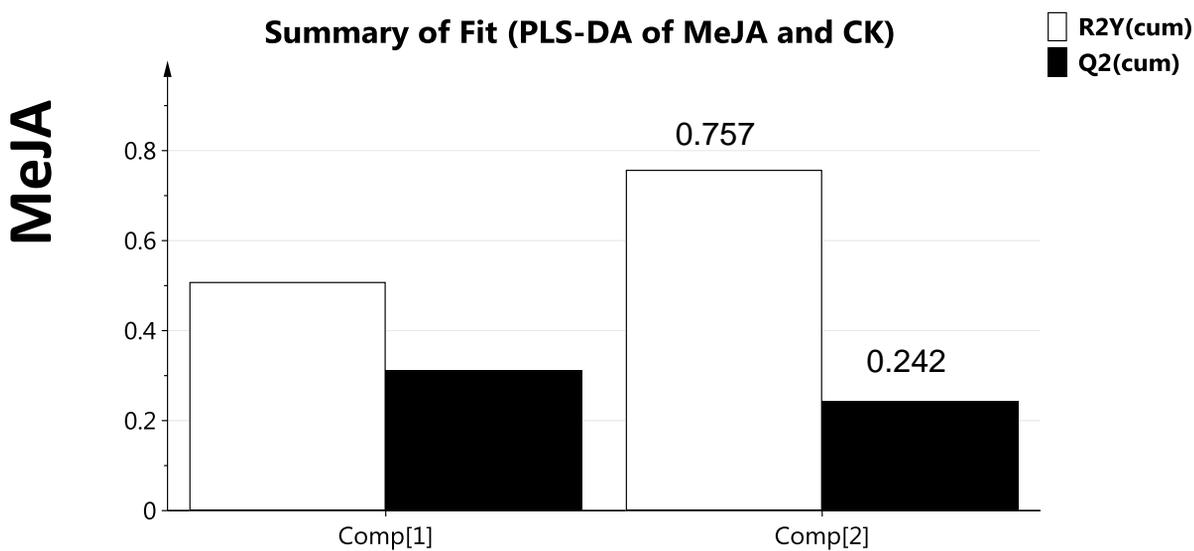
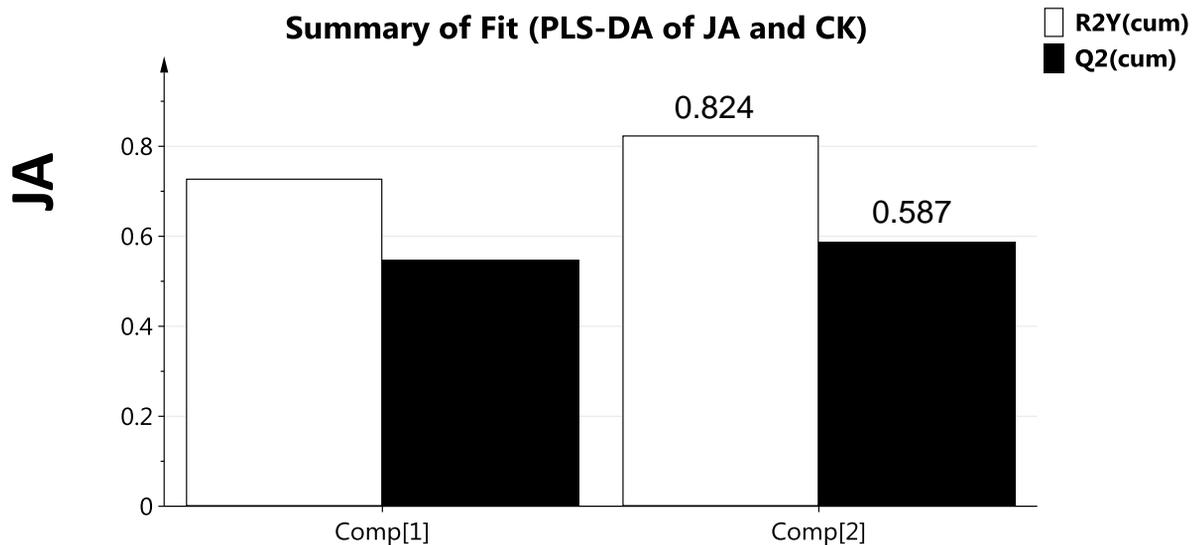
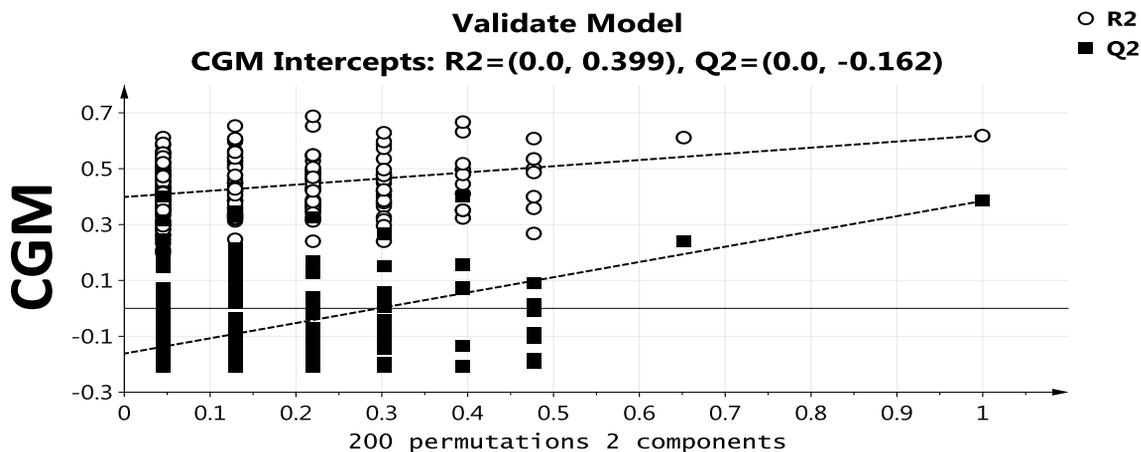
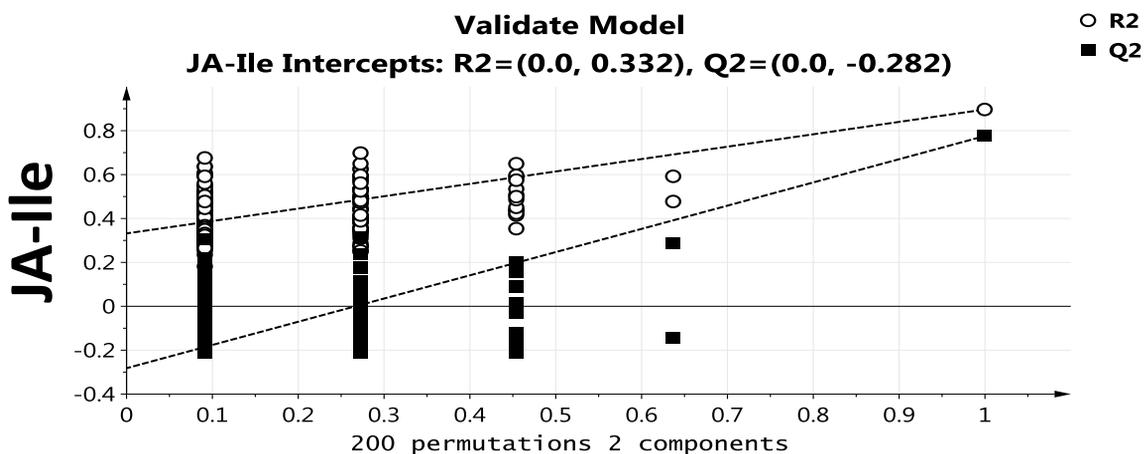
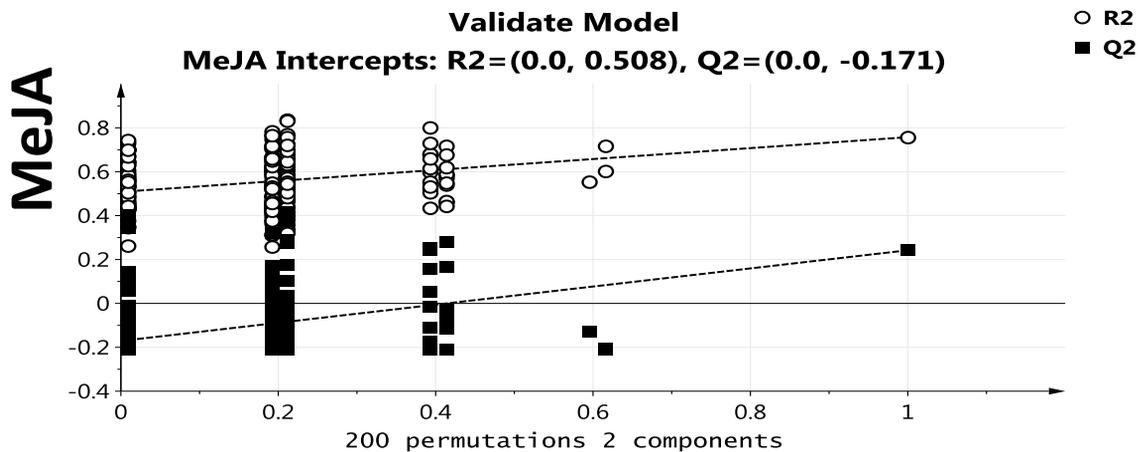
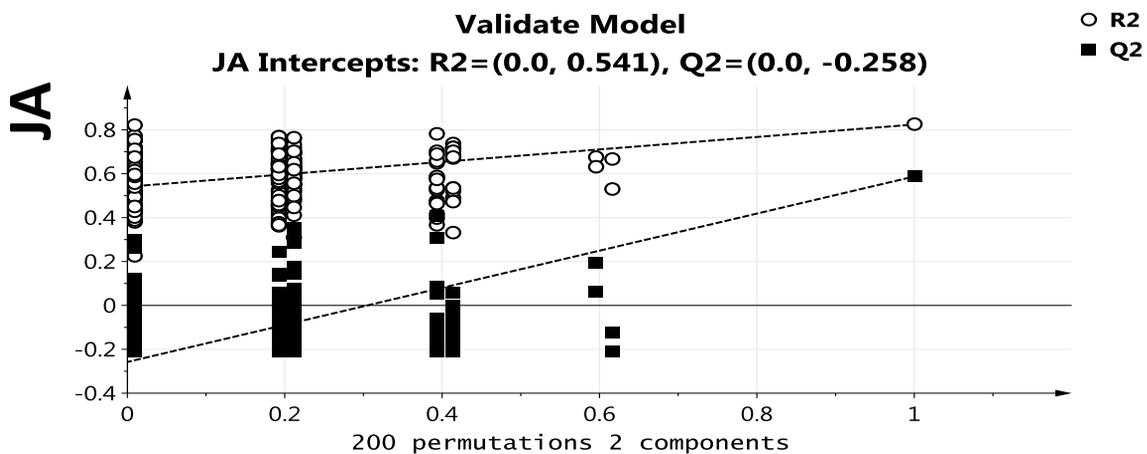


Figure S4



**Figure S5**