Mechanism for apigenin complexing with cellular phosphatidylcholine

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Abstract
Quantum-chemical methods, as well as $^{13}$C and $^1$H NMR spectroscopy, have been used for studying the complexing of trihydroxyflavone (apigenin) molecule with cellular phosphatidylcholine (lecithin). Change of electronic structure and conformation states of lecithin is shown. The energy of complexing has been defined.