



## Supporting Information

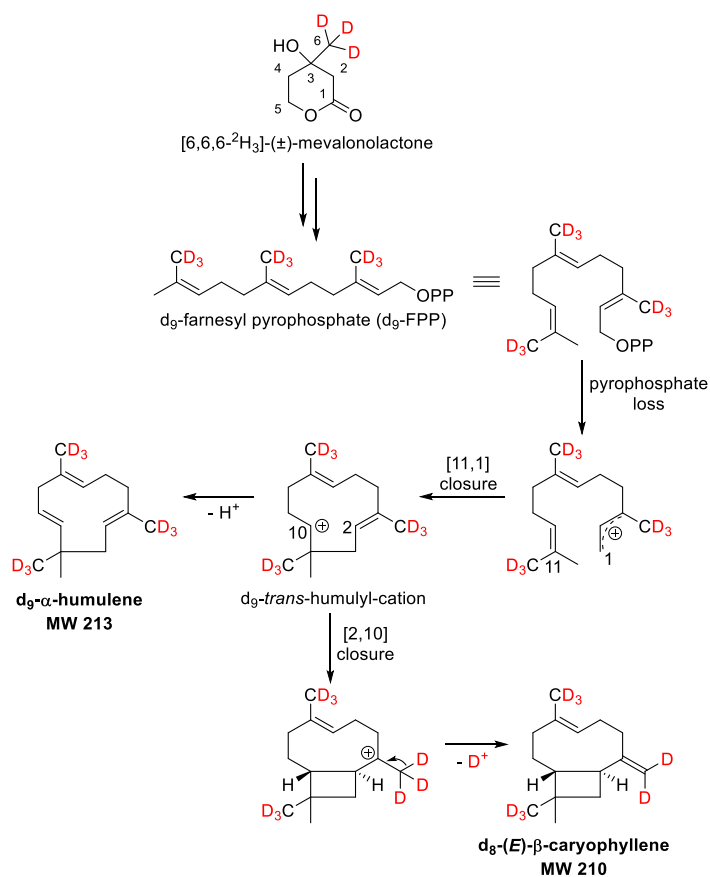
for

### **Analysis of sesquiterpene hydrocarbons in grape berry exocarp (*Vitis vinifera* L.) using in vivo-labeling and comprehensive two-dimensional gas chromatography–mass spectrometry (GC×GC–MS)**

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### **Putative formation pathway of $d_8$ -(*E*)- $\beta$ -caryophyllene and $d_9$ - $\alpha$ -humulene starting from $d_9$ -farnesyl pyrophosphate**



**Scheme S1:** Possible formation of the sesquiterpene hydrocarbons  $d_8\text{-}(E)\text{-}\beta\text{-caryophyllene}$  and  $d_9\text{-}\alpha\text{-humulene}$  in grapes from  $d_9\text{-farnesyl pyrophosphate (d}_9\text{-FPP)}$ . The assumed structural formulas of  $d_8\text{-}(E)\text{-}\beta\text{-caryophyllene}$  and  $d_9\text{-}\alpha\text{-humulene}$  are based on feeding experiments of isolated exocarp of the grape variety Lemberger using  $d_3\text{-MVL}$ .