Supplementary Material for PCCP

Supporting information of:

"**Molecular Recognition in Gas Phase: Benzocaine-Phenol as a Model of The Anesthetic-Receptor Interaction**",

By

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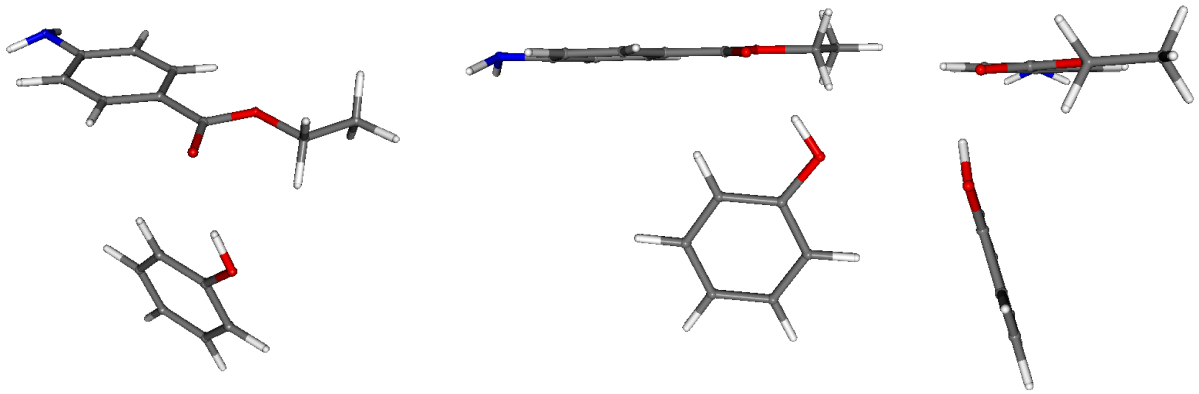
Supporting Figure S1. Benzocaine-phenol structures calculated at MP2/6-31g(d) level.

t-BzPhOH 1



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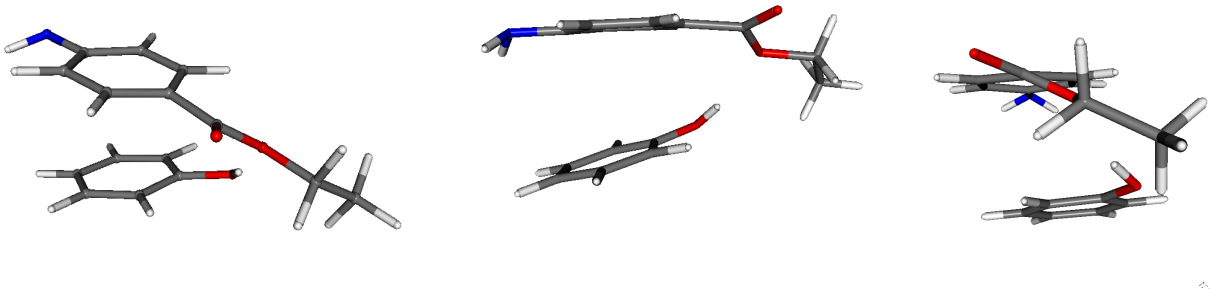

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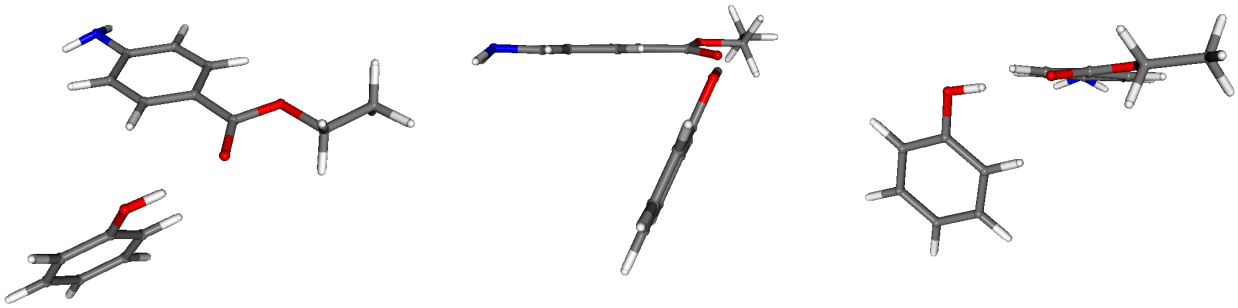

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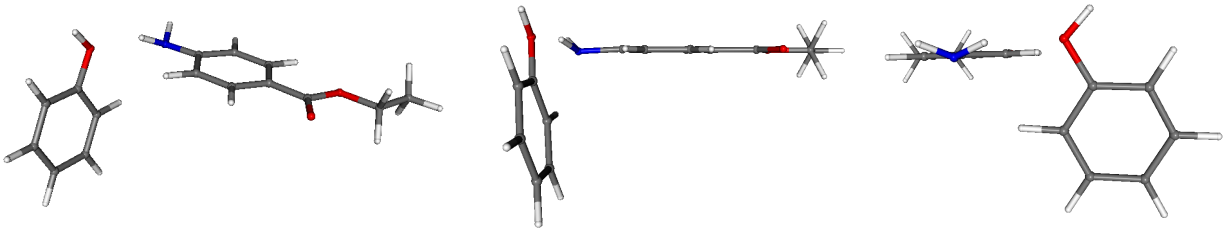
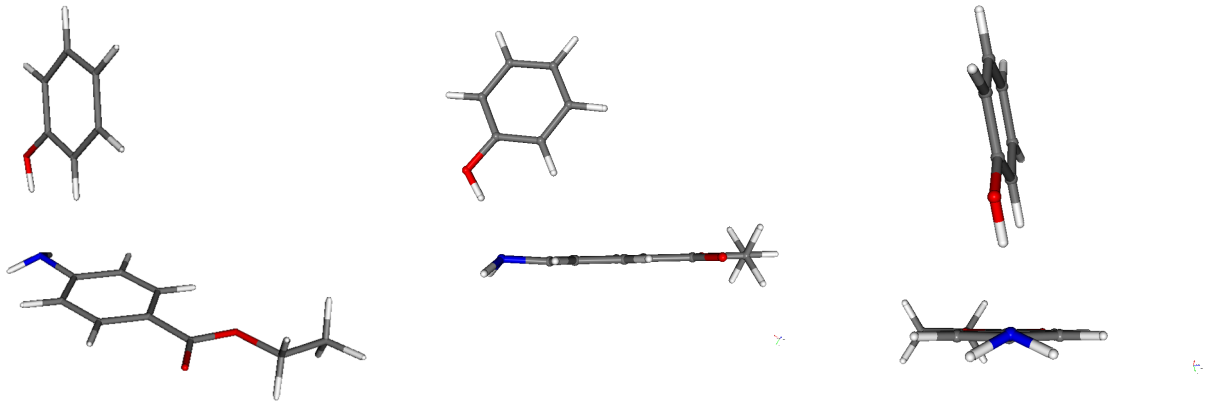
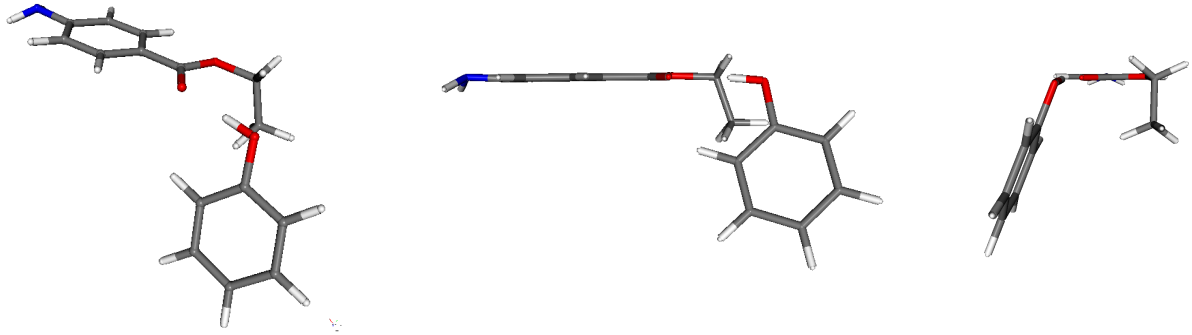


Supporting Figure 1 (cont.)

t-BzPhOH 5



g-BzPhOH SS1



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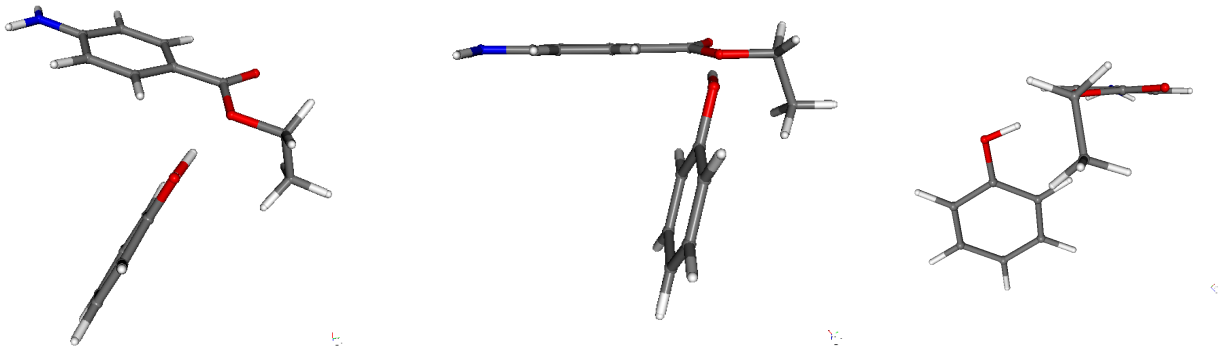
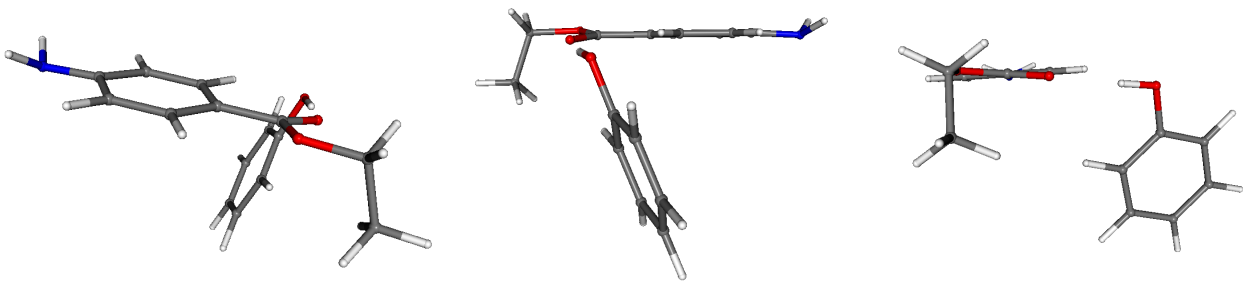
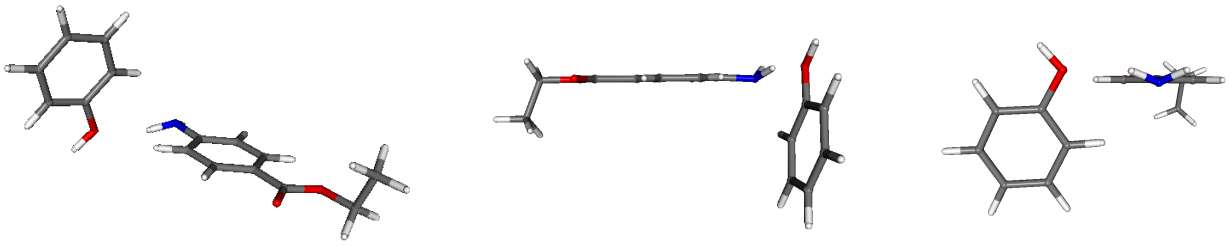


g-BzPhOH SS3

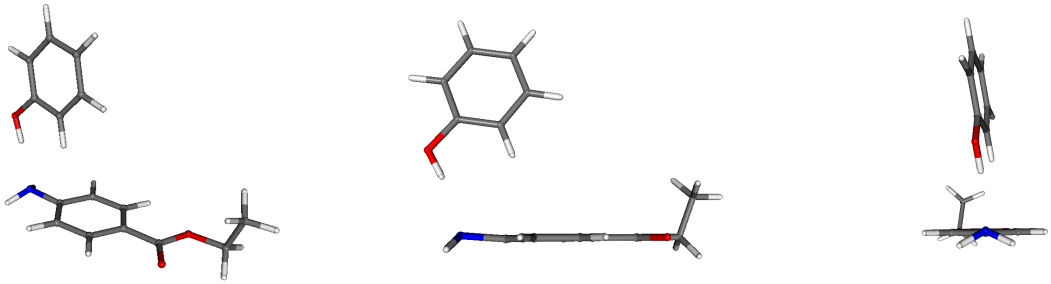


Supporting Figure 1 (cont.)

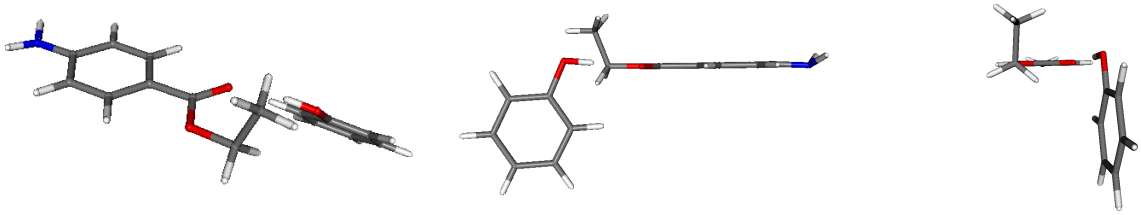
g-BzPhOH SS4



g-BzPhOH SS5



g-BzPhOH OS1



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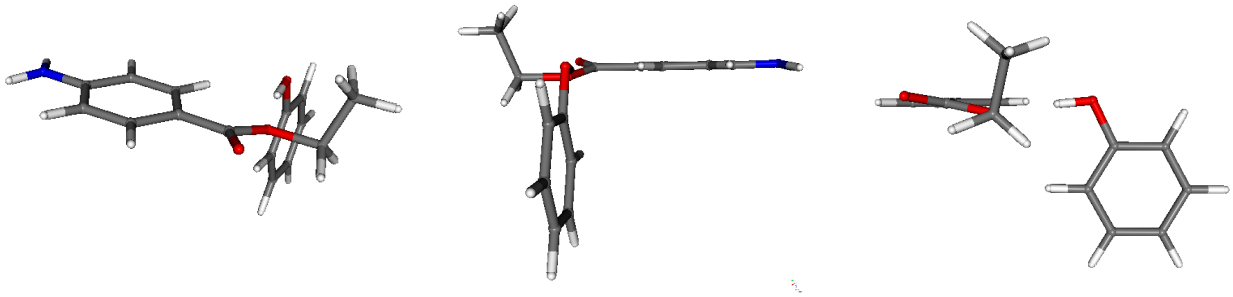
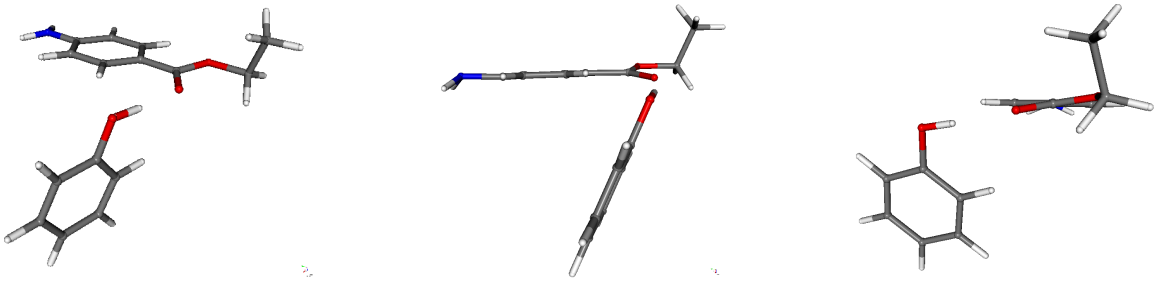
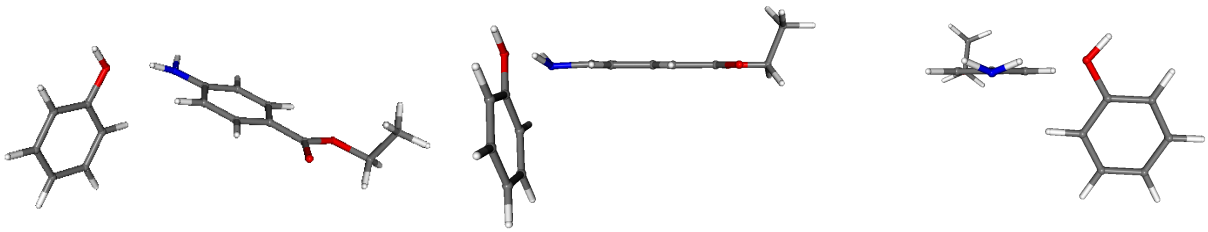


g-BzPhOH OS3

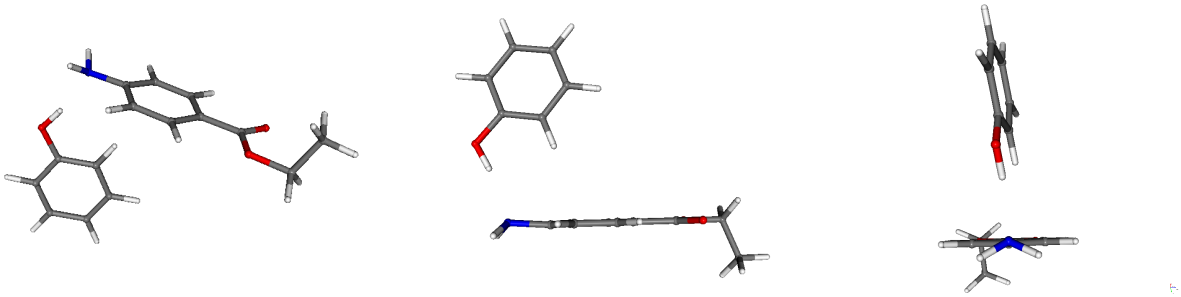


Supporting Figure 1 (cont.)

g-BzPhOH OS4



g-BzPhOH OS5



Supporting Fig. S2. Bz ionization thresholds obtained using 1+1' REMPI and Bz-PhOH ionization and fragmentation threshold obtained by scanning the ionization laser in a 2-color REMPI experiment, setting the pump laser on the origin band at 34129 cm^{-1} and integrating either the $[Bz\text{-}PhOH]^+$ (ionization) or the Bz^+ mass channel (fragmentation, red trace).