

## Supporting Information

### Ultrafast molecular rotor based ternary complex in a nanocavity: A potential “turn on” fluorescence sensor for hydrocarbon chain

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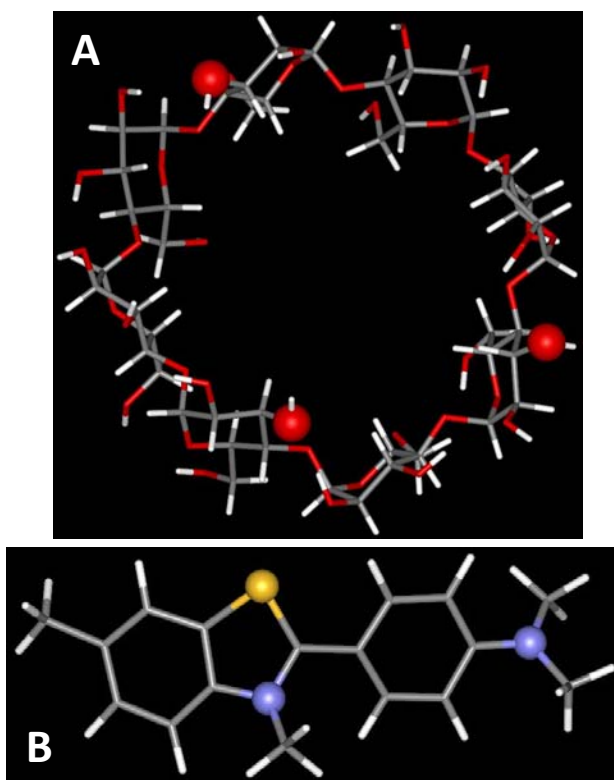


Figure 1S: Molecular structure of  $\gamma$ -CD (A) and ThT (B). Atoms which have been used to define the molecular plane (see main text) have been shown as balls.