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Supporting Information

**18-Membered Heterometallacyclic Gold(I) Compounds: Structural
Influences of Co-crystallized Solvent**

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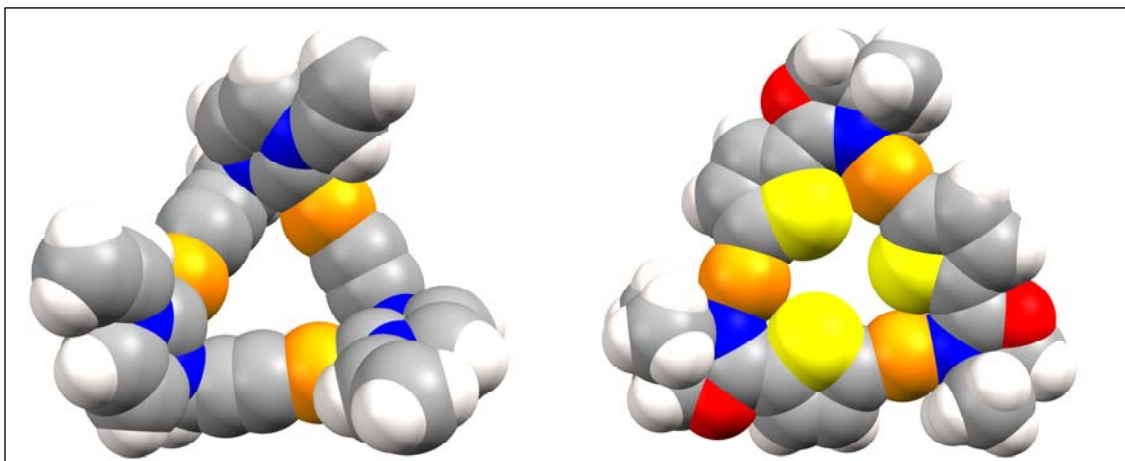


Fig. S1. Space-filling representation of two 18-membered gold-containing cyclic structures: a previously reported example on the left [1] (the trapped $\text{Au}(\text{PMe}_3)_2^+$ ion is omitted for clarity) and the gold complex of **1b** on the right. The S atoms in **1b** are involved in $\text{Au}(\text{orange})\cdots\text{S}(\text{yellow})$ interactions and occupy some of the space that is available in the other metallocycle.

- [1] U. E. I. Horvath, J. McKenzie, S. Cronje, H. G. Raubenheimer, L. J. Barbour, *Chem. Commun.* **2009**, 6598 – 6600.