## **Supporting Information belonging to publication**

## Synthesis of Heterobimetallic Complexes by Coordination of Rhodium(III) and Iridium(III) Poly-N,O-NHC Complexes to Silver(I), Copper(II) and Zinc(II)

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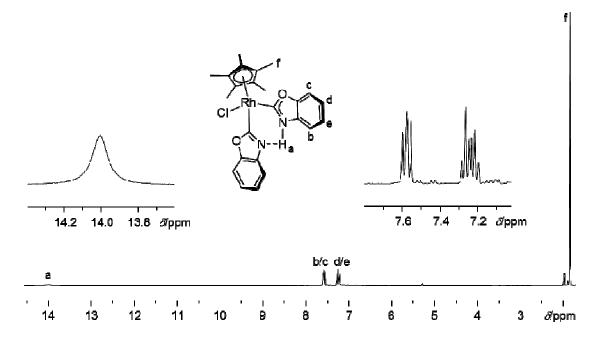


Figure S1. <sup>1</sup>H NMR spectrum of [2] in CDCl<sub>3</sub>.

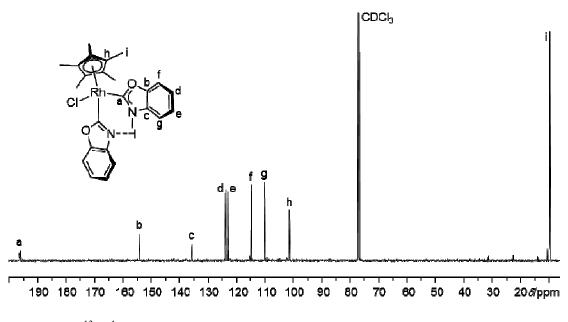


Figure S2.  ${}^{13}C{}^{1}H$  NMR spectrum of [2] in CDCl<sub>3</sub>.

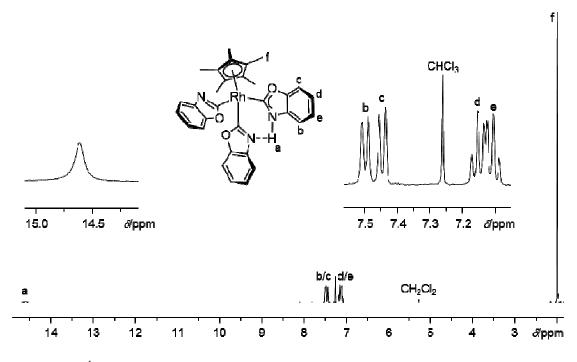


Figure S3. <sup>1</sup>H NMR spectrum of [3] in CDCl<sub>3</sub>.

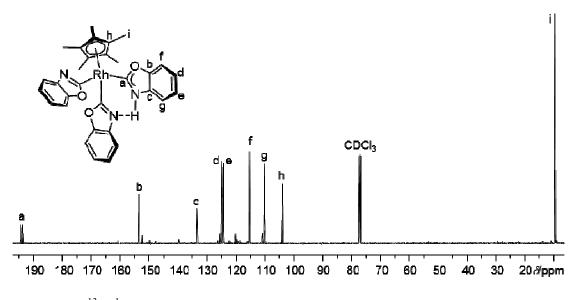


Figure S4.  ${}^{13}C{}^{1}H$  NMR spectrum of [3] in CDCl<sub>3</sub>.

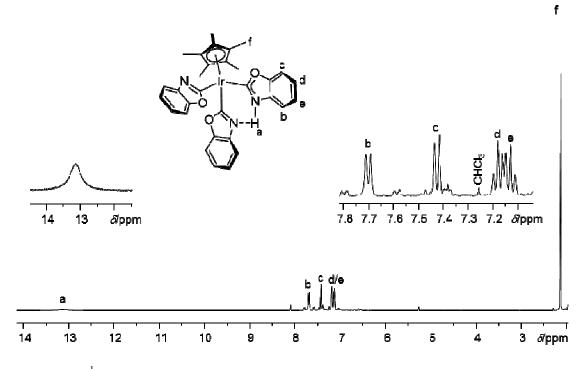


Figure S5. <sup>1</sup>H NMR spectrum of [4] in CDCl<sub>3</sub>.

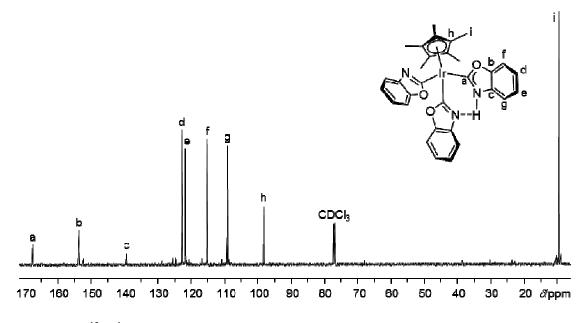
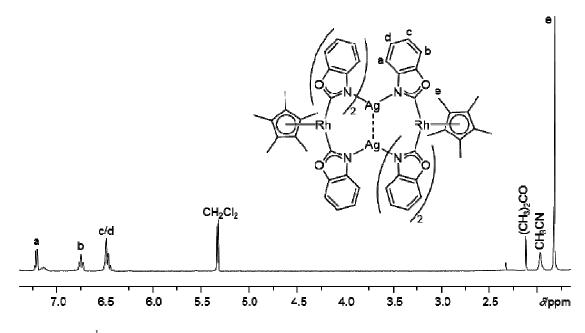
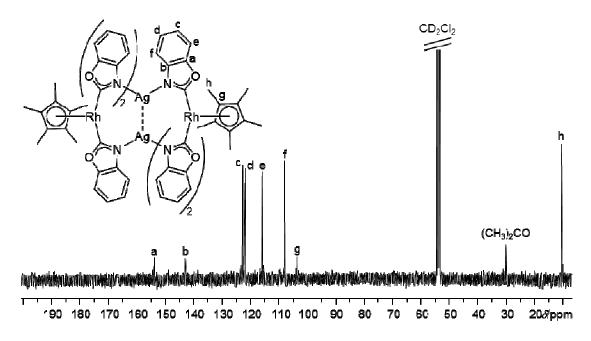


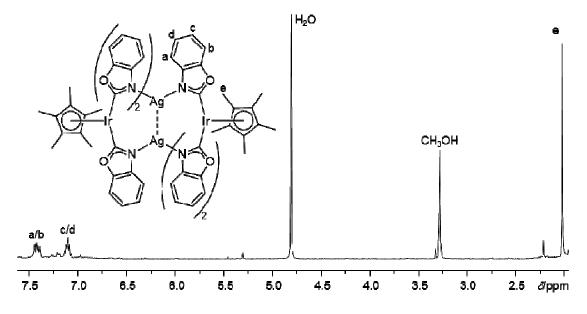
Figure S6.  ${}^{13}C{}^{1}H$  NMR spectrum of [4] in CDCl<sub>3</sub>.



**Figure S7.** <sup>1</sup>H NMR spectrum of [5] in  $CD_2Cl_2$ .



**Figure S8.**  ${}^{13}C{}^{1}H$  NMR spectrum of [5] in CD<sub>2</sub>Cl<sub>2</sub>. The resonance for the carbene carbon atoms (C2) was not observed.



**Figure S9.** <sup>1</sup>H NMR spectrum of [6] in  $CD_3OD$ .

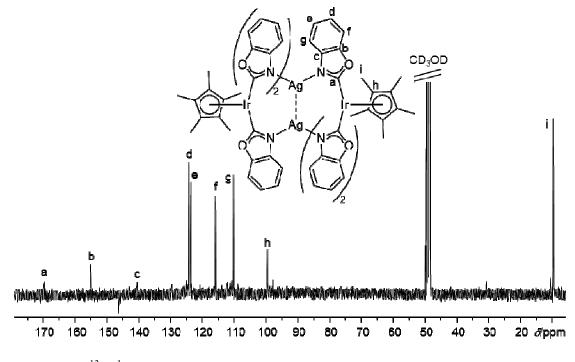


Figure S10.  ${}^{13}C{}^{1}H$  NMR spectrum of [6] in CD<sub>3</sub>OD.

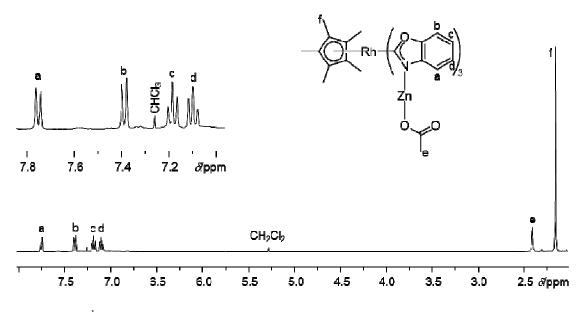


Figure S11. <sup>1</sup>H NMR spectrum of [10] in CDCl<sub>3</sub>.

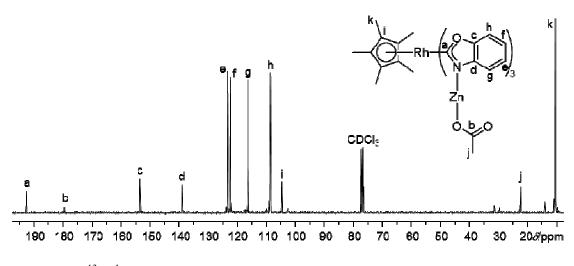


Figure S12.  ${}^{13}C{}^{1}H$  NMR spectrum of [10] in CDCl<sub>3</sub>.