Supplementary Material

Carbene-Anchored/Pendent-Imidazolium Species as
Precursors to Di-N-Heterocyclic Carbene-Bridged
Mixed-Metal Complexes

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Figure S1-1. $^1$H Spectrum of Compound 2c
Figure S1-2. $^{13}\text{C}\{^1\text{H}\}$ Spectrum of Compound 2c
Figure S2-1. $^1$H Spectrum of Compound 8b
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Figure S2-2. $^1$H Spectrum Expansion of Compound 8b
Figure S2-3. $^1$H Spectrum Expansion of Compound 8b
Figure S2-4. $^{13}\text{C}^{1\text{H}}$ Spectrum of Compound 8b
Figure S3-1. $^1$H Spectrum of Compound 10b
Figure S3-2. $^1$H Spectrum Expansion of Compound 10b
Figure S3-3. $^{13}$C{$^{1}$H} Spectrum of Compound 10b
Figure S4-1. $^1$H Spectrum Expansion of Compound 23b
Figure S4-2. $^{13}$C{1H} Spectrum Expansion of Compound 23b
Figure S4-3. $^{13}\text{C}\{^{1}\text{H}\}$ Spectrum Expansion of Compound $23\text{b}$

* impurity
Figure S4-4. $^{13}$C{${}^1$H} Spectrum Expansion of Compound 23b
Figure S4-5. $^{13}\text{C}\{^{1}\text{H}\}$ Spectrum Expansion of Compound 23b
Figure S5. NMR Decoupling Experiments on Compound 9b

\[ \text{^1H NMR} \]

\[ \text{^1H \{^31P\} NMR} \]

\[ \text{^1H \{^1H\} NMR} \]