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Supplementary Information

Organometallic Rhodium(III) and Iridium(III) Cyclopentadienyl Complexes with Curcumin and Bisdemethoxycurcumin Co-ligands.

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Table S1. Crystal Data and Details of the Structure Determination for **5**, **6** and **8**.

	5	6	8
Chemical formula	C ₃₈ H ₄₆ F ₃ N ₃ O ₉ PRhS	C ₃₆ H ₄₂ F ₃ N ₃ O ₇ PRhS	C ₃₆ H ₄₂ F ₃ IrN ₃ O ₇ PS
Formula weight	911.72	851.67	940.96
Crystal system	triclinic	triclinic	triclinic
Space group	<i>P</i> -1	<i>P</i> -1	<i>P</i> -1
<i>a</i> (Å)	9.6907(5)	10.7522(8)	10.7256(7)
<i>b</i> (Å)	13.8415(16)	12.8029(6)	12.7714(14)
<i>c</i> (Å)	16.1294(16)	14.1428(16)	14.1260(17)
α (°)	71.423(8)	98.723(7)	98.921(10)
β (°)	88.332(7)	94.670(7)	94.649(9)
γ (°)	76.420(6)	106.621(6)	106.740(7)
Volume (Å ³)	1991.0(3)	1827.9(3)	1814.3(3)
<i>Z</i>	2	2	2
<i>D</i> _{calc} (g cm ⁻³)	1.521	1.547	1.722
<i>F</i> (000)	940	876	940
μ (mm ⁻¹)	0.593	0.636	3.850
Temp (K)	100(2)	100(2)	100(2)
Wavelength (Å)	0.71073	0.71073	0.71073
Measured reflections	41149	26911	29732
Unique reflections	13758	8362	10271
Unique reflections	11322	6774	8726
[<i>I</i> > 2 σ (<i>I</i>)]			
Data / parameters	13758 / 513	8362 / 506	10271 / 511
<i>R</i> ^a [<i>I</i> > 2 σ (<i>I</i>)]	0.0383	0.0463	0.0468
<i>wR</i> ₂ ^a (all data)	0.0840	0.1018	0.1297
GoF ^b	1.103	1.136	1.062

^a $R = \sum |F_o| - |F_c| / \sum |F_o|$, $wR_2 = \{\sum [w(F_o^2 - F_c^2)^2] / \sum [w(F_o^2)^2]\}^{1/2}$; ^b GoF = $\{\sum [w(F_o^2 - F_c^2)^2] / (n-p)\}^{1/2}$ where *n* is the number of data and *p* is the number of parameters refined.

Crystallographic data for the structures reported in this paper have been deposited with the Cambridge Crystallographic Data Centre as a supplementary publication no. CCDC 1412115-1412117.

Copies of the data can be obtained free of charge on application to CCDC, 12

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