Electronic Supplementary Information

Through-Bond Photoinduced Electron Transfer in a Porphyrin-Fullerene Conjugate Held by a Hamilton type Hydrogen Bonding Motif

Francis D'Souza^{*} Ganesh M Venukadasula, Ken-ichi Yamanaka, Navaneetha K. Subbaiyan, Melvin E. Zandler, and Osamu Ito^{*}



Fig. S1. ¹H NMR spectrum of amino pyridine appended fulleropyrrolidine (3 mM) on (a) 0.0 mM, (b) 0.2 mM, (c) 0.4 mM and (d) 0.6 mM addition of carboxyl functionalized zinc porphyrin in CDCl₃. The pyridine and amine protons of the fullerene derivative show small shielding effect due to hydrogen bonding interactions.



Fig. S2. Optical absorption spectrum of zinc tetraphenylporphyrin (2 μ M) on increasing addition of aminopyridine appended fulleropyrrolidine (3 μ M each addition) in *o*-dichlorobenzene.



Fig. S3. Stern-Volmer plots constructed for the fluorescence quenching of carboxylic acid appended zinc porphyrin ($\lambda_{ex} = 550$ nm) on increasing addition of (i) aminopyridine appended fulleropyrrolidine and (ii) 2-phenyl fulleropyrrolidine (without hydrogen bonding functionality) in *o*-dichlorobenzene.