## Syntheses and Structures of $[Pt(N_3)_2(dppf)]$ and $[Pt(CN_4C_6H_{11})_2(dppf)](dppf = Fe(\eta^5-C_5H_4PPh_2)_2)$

<u>김완성</u>, 한원석, 이순원 성균관대학교 이과대학 화학과

PdCl<sub>2</sub>(dppf)<sub>2</sub> (1) reacted with Me<sub>3</sub>SiN<sub>3</sub> in a refluxing tetrahydrofuran solution to give a bis(azido) platinum(II) complex Pd(N<sub>3</sub>)<sub>2</sub>(dppf)<sub>2</sub> (2). Compound 2 could also be prepared from the reaction of compound 1 and NaN<sub>3</sub> in dichloromethane at room temperature. Compound 2 reacted with cyclohexylisocyanide (C<sub>6</sub>H<sub>11</sub>NC) in dichloromethane at room temperature to give a stetrically congested compound [Pt(CN<sub>4</sub>C<sub>6</sub>H<sub>11</sub>)<sub>2</sub>(dppf)] (3), which has two *C*-bonded tetrazolate rings (CN<sub>4</sub>-C<sub>6</sub>H<sub>11</sub>) and one bidentate dppf ligand. Crystallographic data for 2: triclinic space group  $\overline{P1}$ , a = 10.957(1) Å, b = 12.377(1) Å, c = 15.236(1) Å, a = 107.776(7)°, a = 94.098(7)°, a = 114.408(6)°, a =