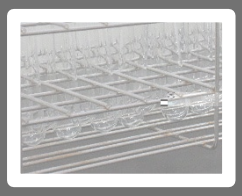

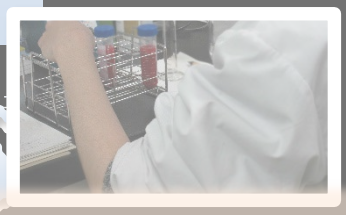

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Asymmetric catalysis is a very broad and exciting field. In spite of hundreds of chiral ligands developed, phosphine ligands are keeping their prestigious role as the most powerful and frequently-used ligands. With the exceptionally high demand of chiral phosphine ligand, it is significant to develop efficient methods for construction these chiral organophosphorus compounds. Transition metal-catalyzed asymmetric hydrophosphination is the most direct pathway for the synthesis of chiral phosphine compounds. Recently, our group developed asymmetric hydrophosphination of alkenes, alkene and alkynes. These approaches allowed concise, direct, modular and unprecedented accesses to potentially valuable chiral phosphorus compounds.