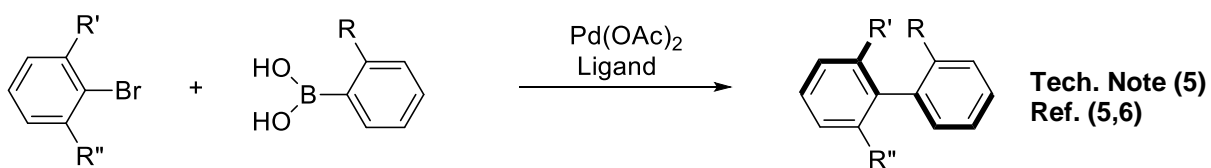
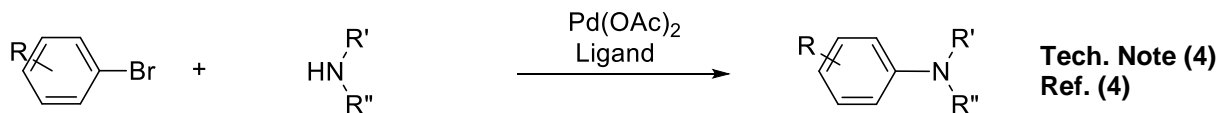
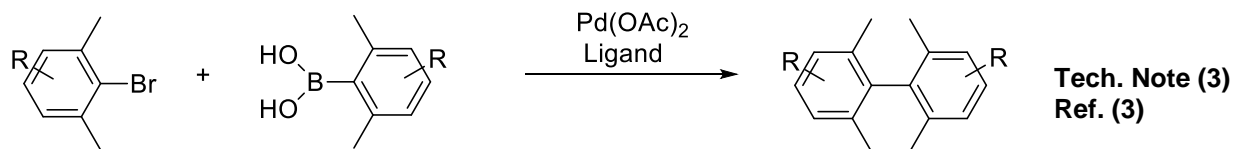
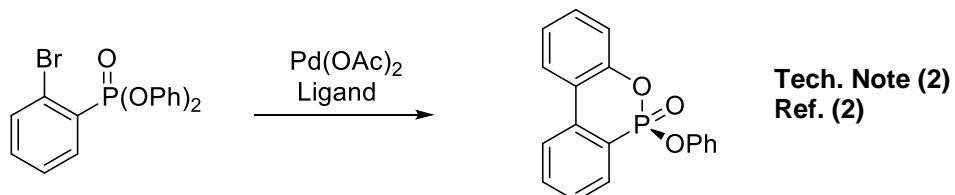
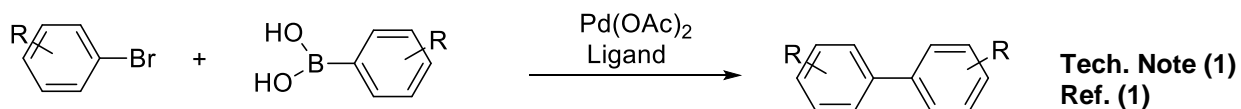
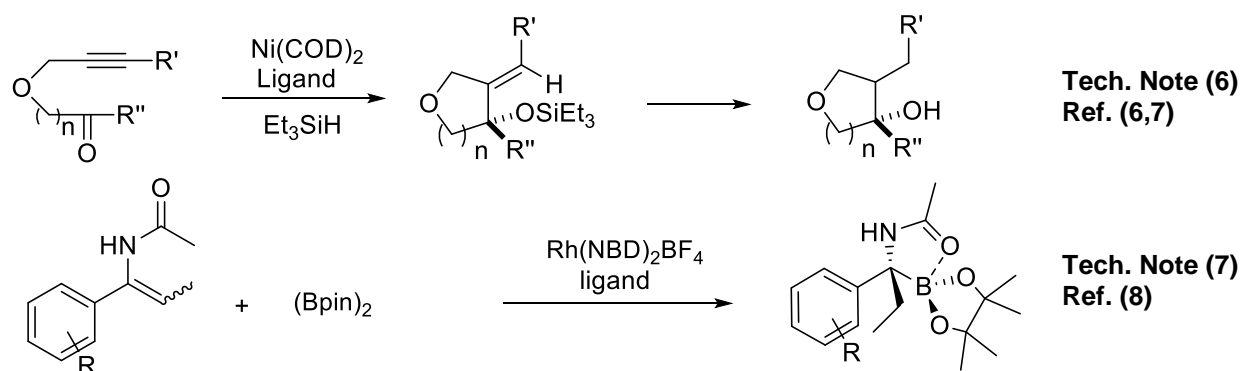


## Technical Notes:

1. Ligand/palladium catalyst for general Suzuki-Miyaura borylation reactions.
2. Ligand/palladium catalyst for Cyclization
3. Ligand/palladium catalyst for general and sterically demanding Suzuki-Miyaura cross-coupling reactions.
4. Ligand/palladium catalyst for sterically demanding Buchwald-Hartwig amination.
5. Ligand/palladium catalyst for asymmetric Suzuki-Miyaura cross-coupling reactions.
6. Ligand/nickel catalyst for asymmetric intramolecular/intremolecular reductive cyclization
7. Ligand/rhodium catalyst for asymmetric hydroboration





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