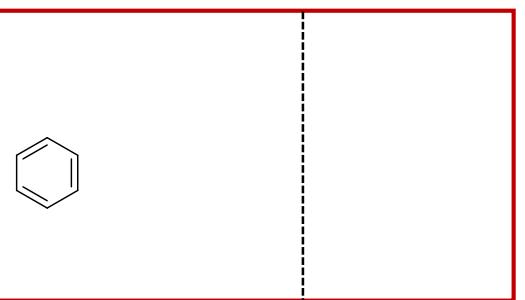
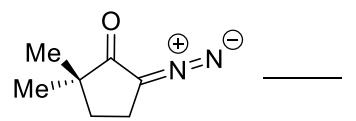
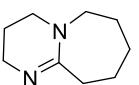


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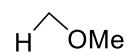


10 to 11: C-2 Base-



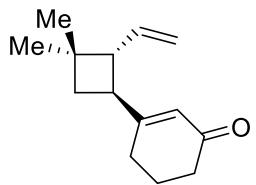
11 to ()-12: Carbonyl Protection

11 to ()-12: Methyl Orthoformate as a H₂O Scavenger

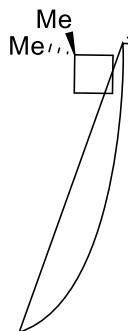
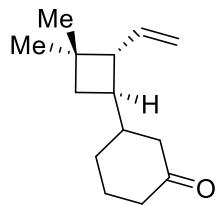


11 to ()-12: Amide Reduction



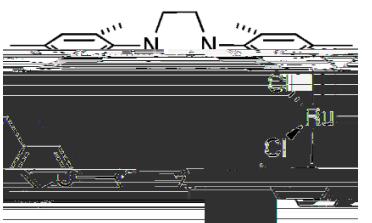
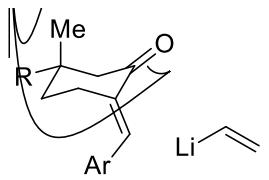


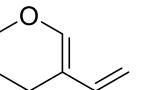
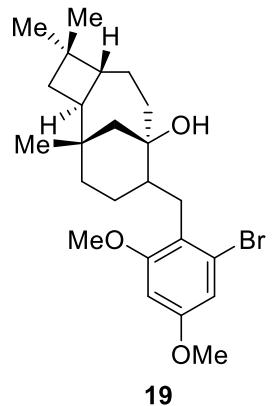
(+)-12



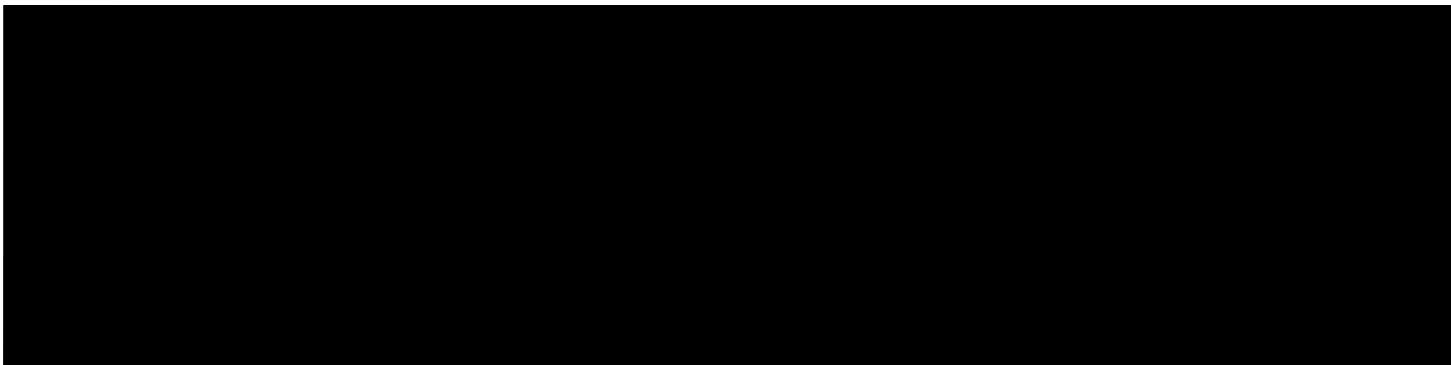


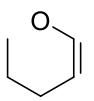
18 to 3: Ring-





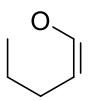
20 to 21: Cuprate Addition





21 to 1: Demethylation





21 to 1: Rieche Formylation

