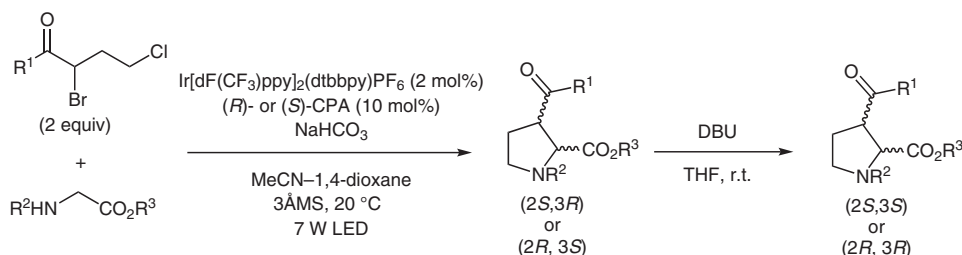
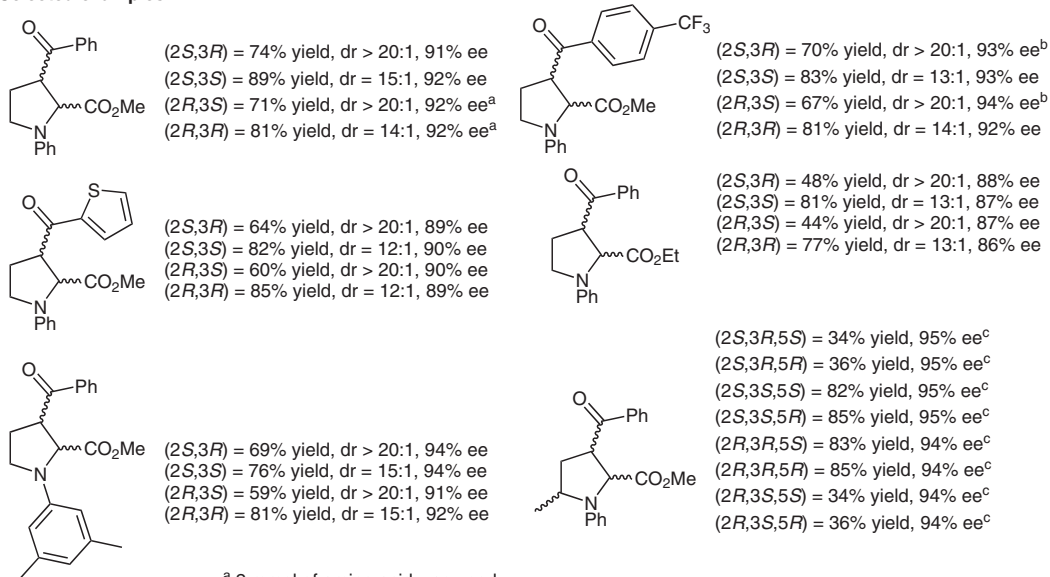


Ir-Catalyzed Enantio- and Diastereoselective Synthesis of 3-Substituted Proline Derivatives



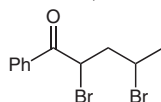
Selected examples:



^a 2 mmol of amino acid was used.

^b After irradiation, the reaction mixture was stirred at room temperature for additional 10 h.

^c was used instead of α -bromo γ -chloro ketone.



Significance: Peptides, including proline, are ubiquitous in biologically active molecules due to their unique structure. The Authors have developed a synthesis of diastereo- and enantioselective proline derivatives.

Comment: The synthesis of proline derivatives was undergone by the help of iridium catalysis to afford various types of 3-substituted prolines in high to excellent yields with great diastereo- and enantioselectivity.