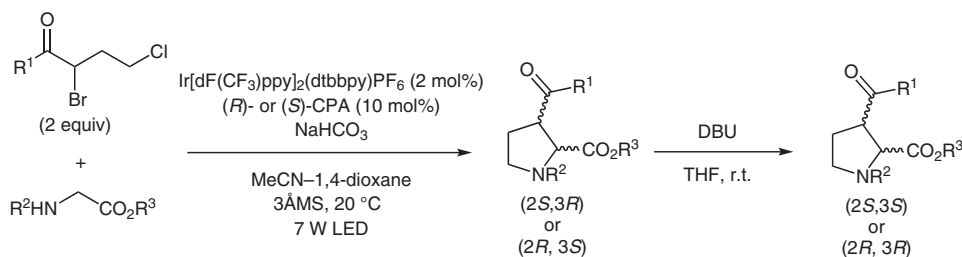
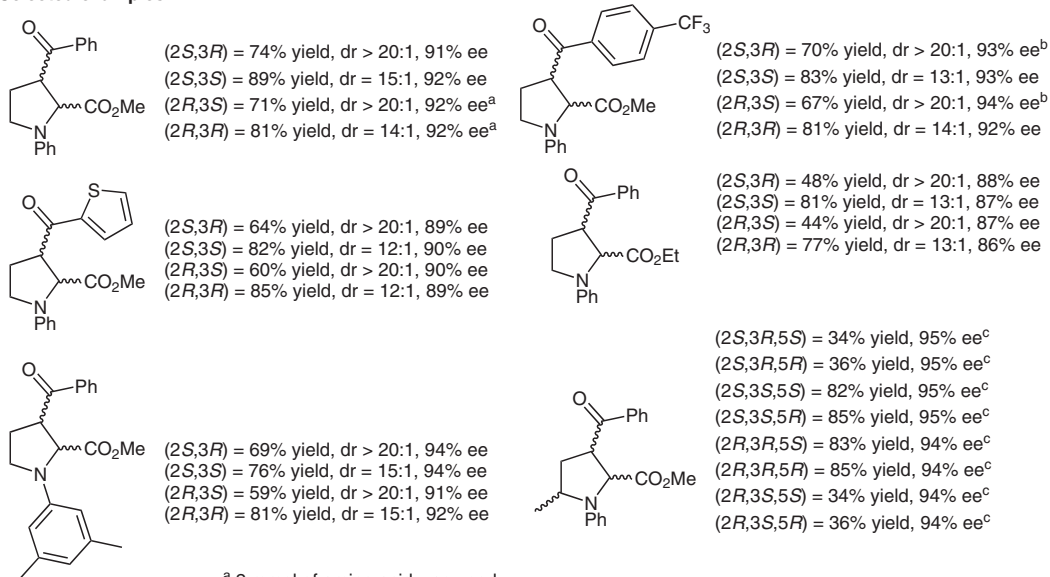


## Ir-Catalyzed Enantio- and Diastereoselective Synthesis of 3-Substituted Proline Derivatives



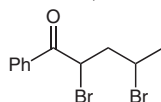
### Selected examples:



<sup>a</sup> 2 mmol of amino acid was used.

<sup>b</sup> After irradiation, the reaction mixture was stirred at room temperature for additional 10 h.

<sup>c</sup> was used instead of  $\alpha$ -bromo  $\gamma$ -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.