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Domino Wittig - Diels Alder reaction: synthesis of carbazole lignans

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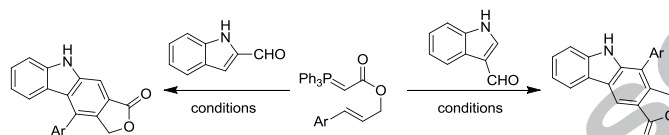


## Graphical Abstract

**Domino Wittig - Diels Alder reaction:  
synthesis of carbazole lignans**

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Ar = C<sub>6</sub>H<sub>5</sub> (a), 4Cl-C<sub>6</sub>H<sub>4</sub> (b), 2Cl-C<sub>6</sub>H<sub>4</sub> (c), 3,4-(OCH<sub>2</sub>O)-C<sub>6</sub>H<sub>3</sub> (d)  
conditions: 1. Ph<sub>2</sub>O, reflux, 59-82%, 2. DDQ, dioxane, reflux, 58-83%

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