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Molecular iodine mediated oxidative cross-coupling of sp^3 C-H with sp^2 C-H: direct synthesis of substituted indolo[2,3-*b*]carbazoles via formal [2+2+1+1] cyclization

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Graphical Abstract

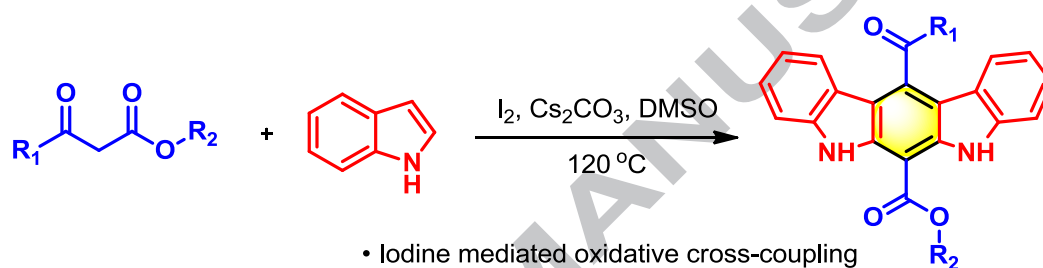
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$R_1 = \text{Aryl}$; $R_2 = \text{Me, Et}$

- Iodine mediated oxidative cross-coupling
- Substituted indolo[2,3-*b*]carbazoles
- Free of metal catalyst

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