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Tetrahedron Letters

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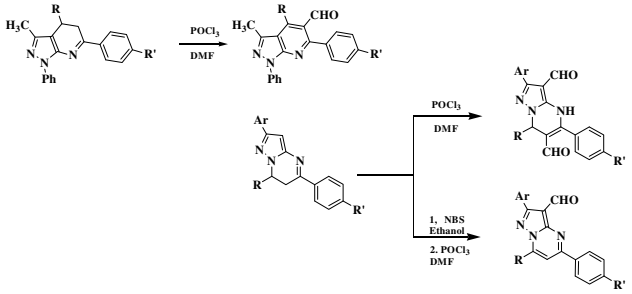
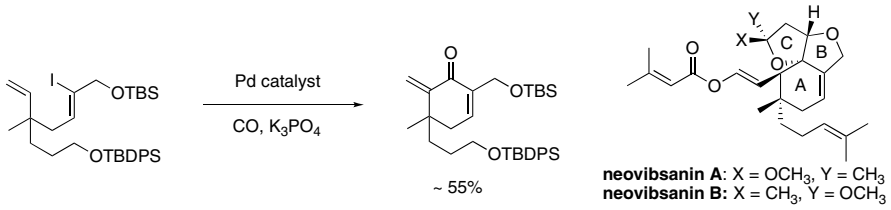
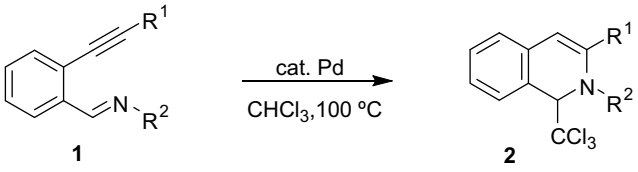
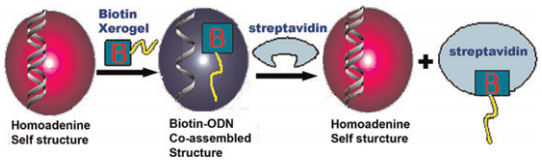
Contents

COMMUNICATIONS

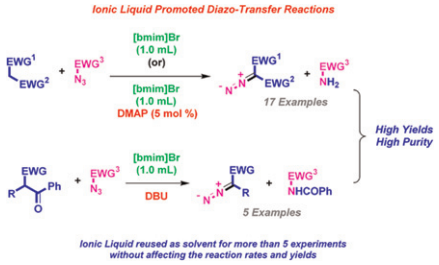


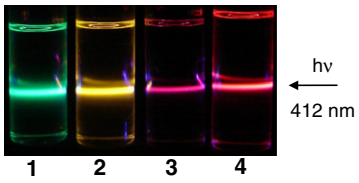




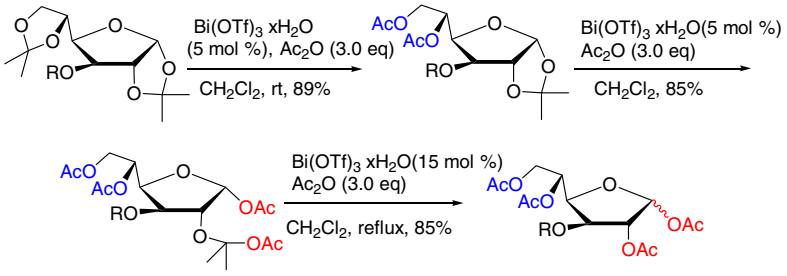


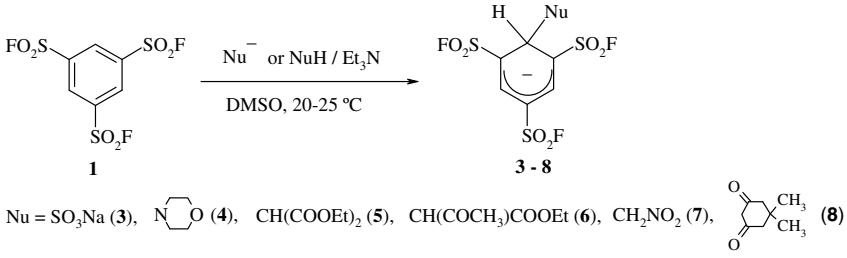
A co-assembly system consisting of fluorescent ODN and biotin has been developed to recognize streptavidin, and it shows a fluorescent discrimination between blue and red signals through recognizing streptavidin.



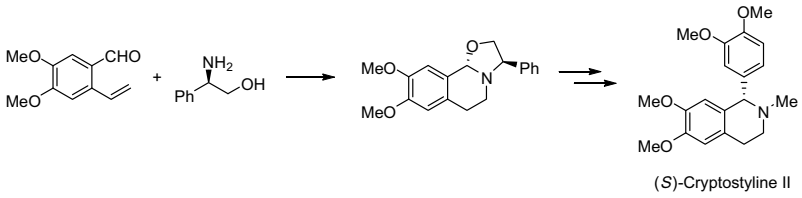


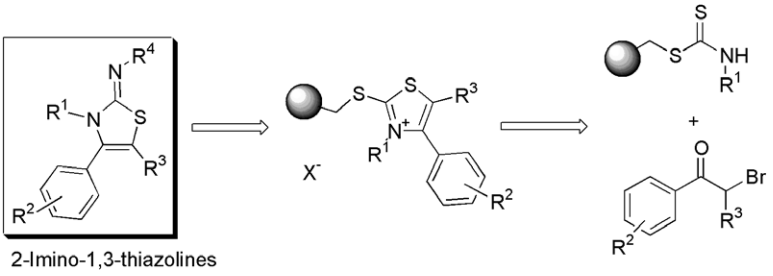
Heteroleptic Ir(III) complexes of 2-(*p*-phenyl)-pyridine (*C^N*) were synthesized and characterized. Substitution at the *para* phenyl position of ligands alters the electronic properties of these complexes. These new Ir(III) complexes show emission in the green, yellow, and orange-red regions. The E_{HOMO} and triplet energy levels of these complexes were estimated.

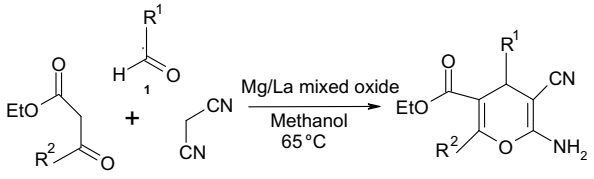




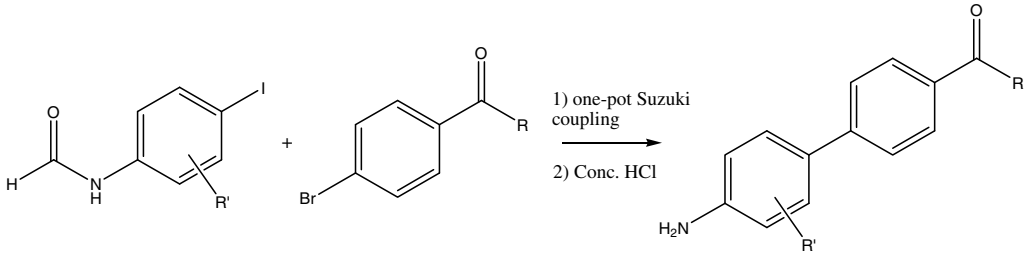
Despite 1,3,5-tris(fluorosulfonyl)benzene **1** being a strong aromatic sulfonic-acid halide it is able to undergo nucleophilic addition at the free positions of aromatic ring with the formation of relatively stable anionic σ-complexes **3**–**8**.

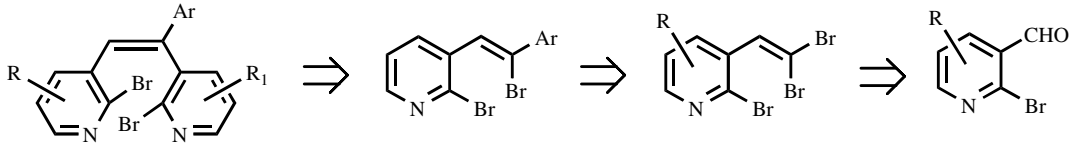


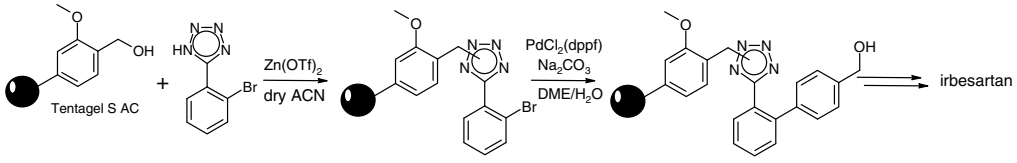




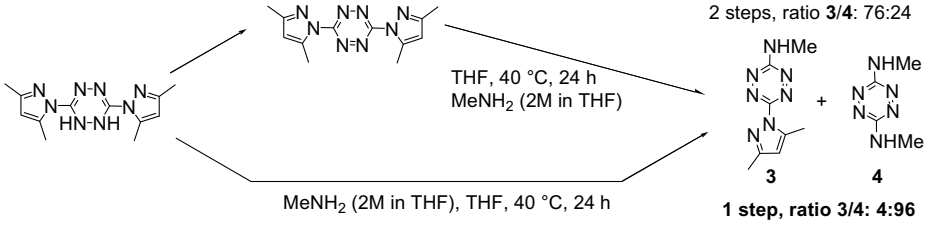
An efficient, heterogeneous strong basic Mg/La catalyst is studied for the synthesis of polyfunctionalized pyran derivatives in a single step by simple condensation of an aldehyde, malononitrile, and diketoesters. The reaction is operated under mild conditions and the catalyst can be recycled.

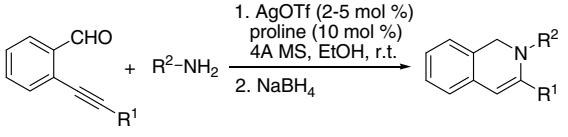


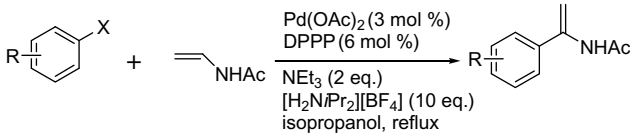


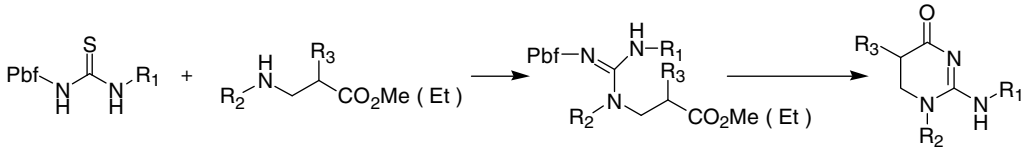


An original method to anchor the tetrazole ring on a hydroxybenzyl resin, associated to new Suzuki–Miyaura cross-coupling conditions, is presented. Using this method, the solid phase synthesis of irbesartan, a biphenyltetrazole antagonist of AT1 receptors, was conducted.

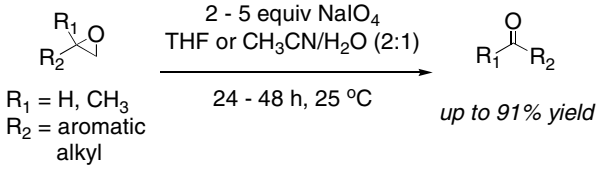


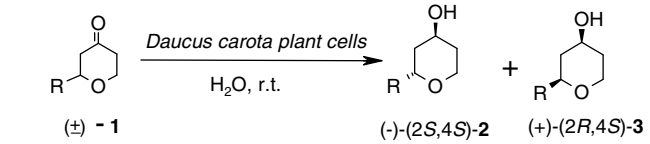




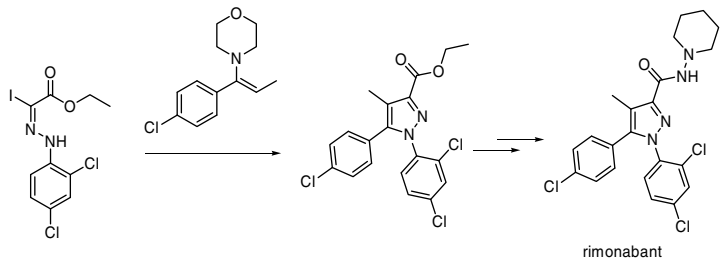


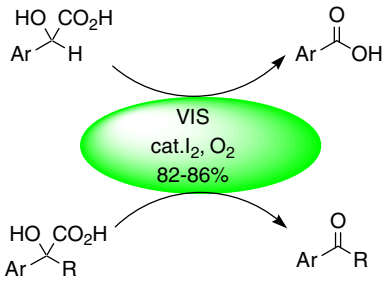
1 **2** **3** **4**

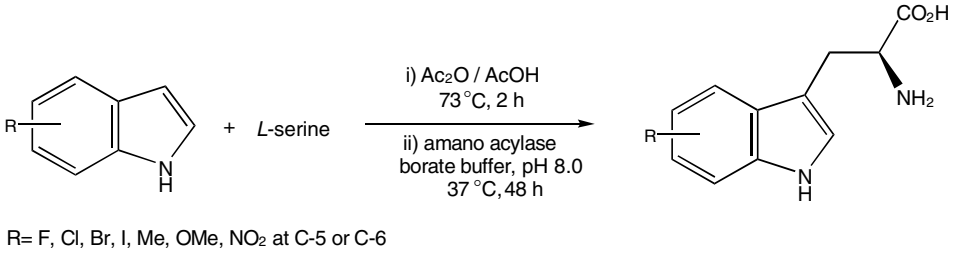




(±) - **1**
R = aryl or alkyl
(-)-(2*S*,4*S*)-**2**
(+)-(2*R*,4*S*)-**3**

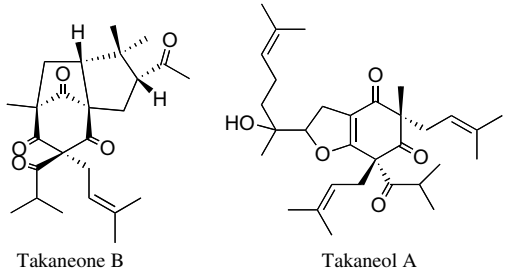


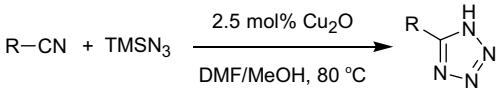


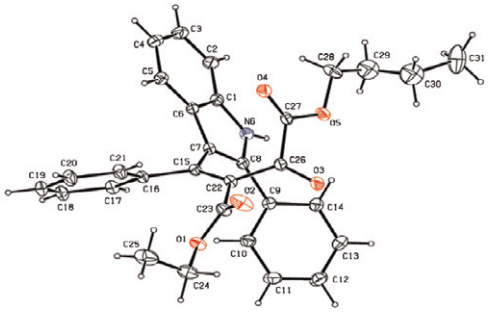


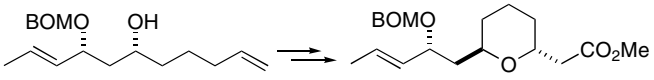
Tryptophan derivatives can be easily synthesised from a wide range of indoles.

Five new phloroglucinol derivatives, takaneones A–C, takaneols A and B were isolated from the MeOH extracts of the aerial parts of *Hypericum sikokumontanum*. The structures of the isolated compounds were elucidated on the basis of spectroscopic evidence. The cytotoxicities of the compounds against human cancer cell lines were evaluated, and takaneone B showed cytotoxicity especially against K562/Adr cells.

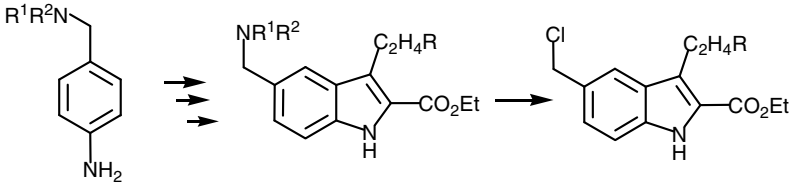




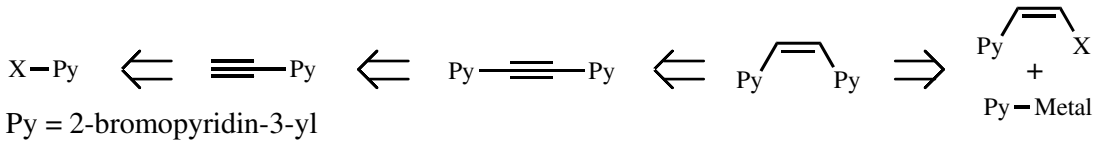


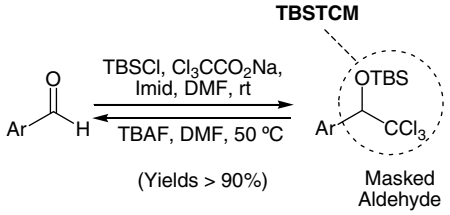


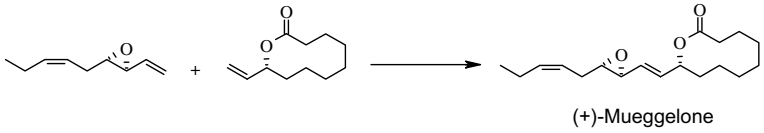
A model of the bistramide D tetrahydropyran is constructed by a cross-metathesis and kinetic intramolecular Michael addition sequence.



Regioisomeric analogues of gramine were prepared by Fischer synthesis and converted to (chloromethyl)indoles under mild conditions.







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*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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