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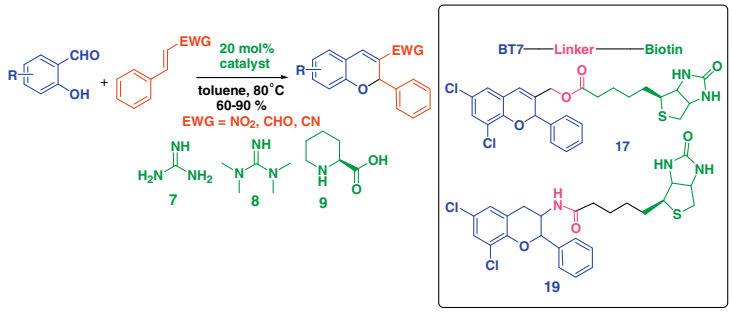
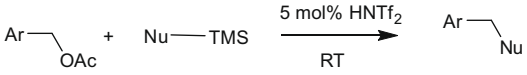
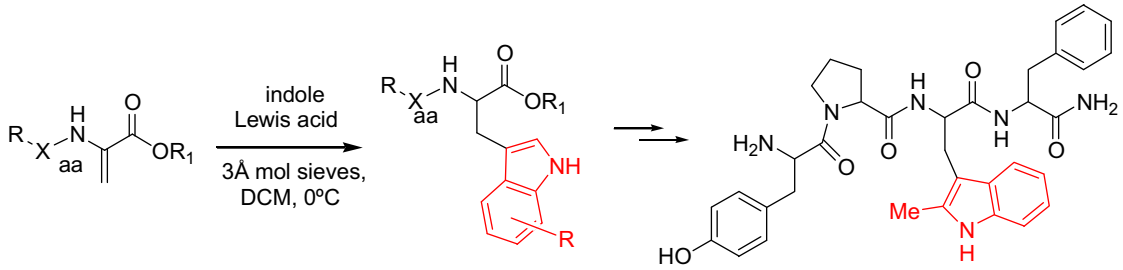
Contents

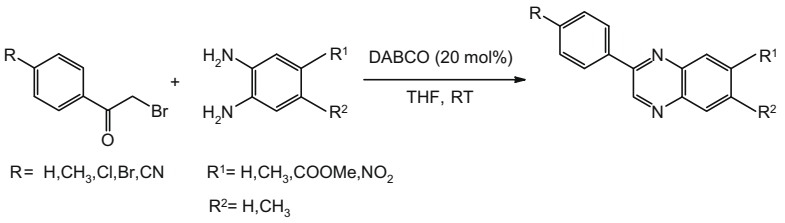
COMMUNICATIONS

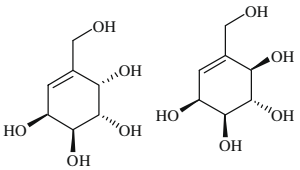


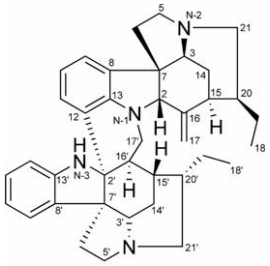




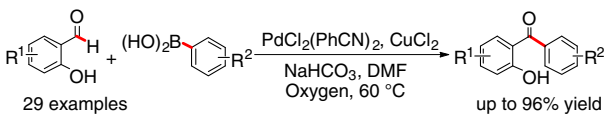
Dipeptides containing substituted (*S*)- or (*R*)-Trp were obtained by F-C alkylation of indoles with dipeptides Xaa-Dha. As a preliminary application, we prepared endomorphin-1 (H-Tyr-Pro-Trp-PheNH$_2$) analogues with 2-MeTrp in position 3.



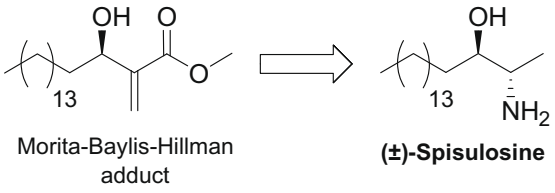




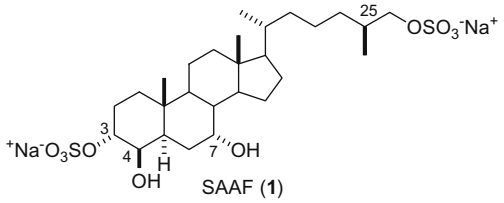
A novel bisindole alkaloid, bisleucocurine A (**1**), consisting of two strychnan skeletons with an N-1–C-17′ and a C-12–C-2′ bridges was isolated from the leaves of *Leuconotis griffithii* and the structure was elucidated on the basis of spectroscopic data. Bisleucocurine A (**1**) showed cytotoxicity against various human cancer cell lines.

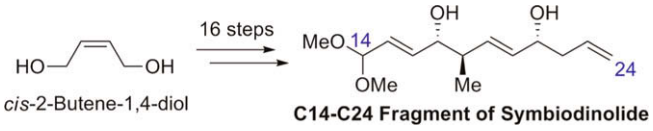


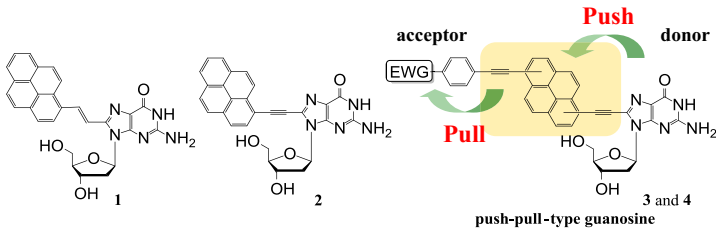
A mild and efficient ligand-free palladium-catalyzed direct C–H bond arylation reaction was developed to afford 2-hydroxybenzophenones in good to excellent yields from easily available 2-hydroxybenzaldehydes and arylboronic acids. The given reaction provided one of the easiest pathways for accessing 2-hydroxybenzophenones, and a variety of functional groups could be tolerated in this process.



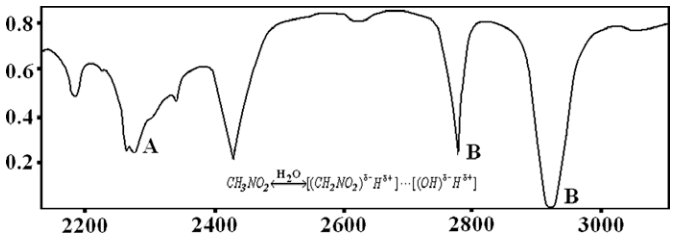
A new approach for the highly diastereoselective total synthesis of the anti-tumoral agent (±)-Spisulosine is described. The synthesis is based on an acyloin that is easily prepared from a Morita–Baylis–Hillman adduct.



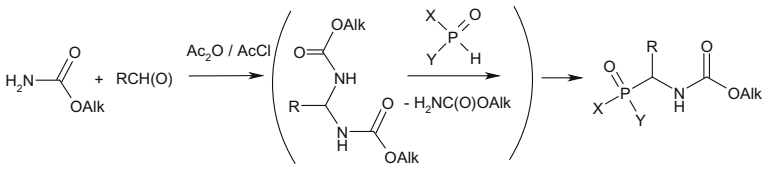


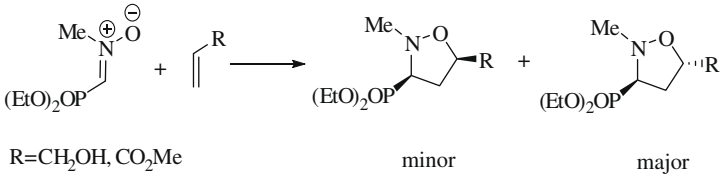


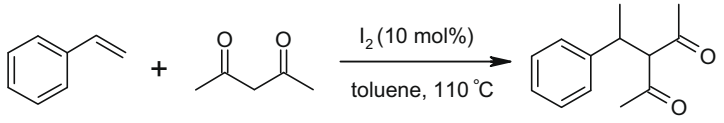
Structure of pyrene-labeled fluorescent guanosine derivatives

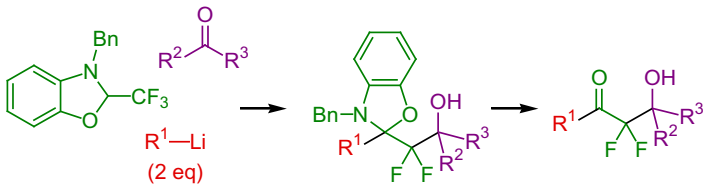


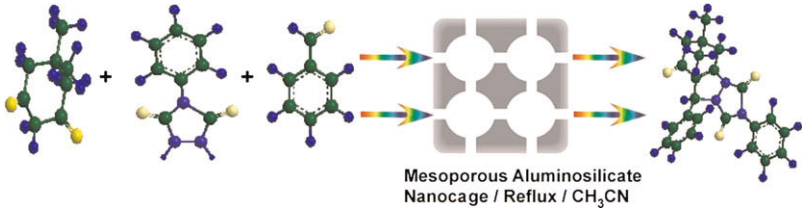
An IR spectroscopic investigation indicates the formation of water complexes with organic solvents such as hexafluorobenzene, nitromethane, acetonitrile, and carbon tetrachloride. The IR bands in the 3000–2400 cm^{-1} region can be assigned to OH-stretching vibrations of an H_2O molecule in complexes with solvents in the liquid phase.



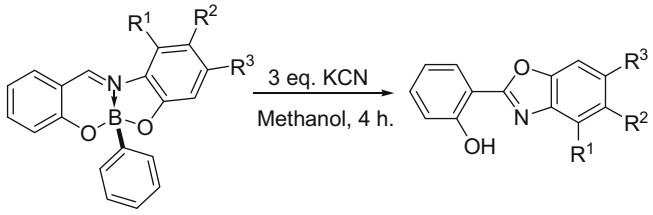




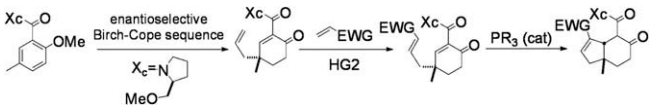


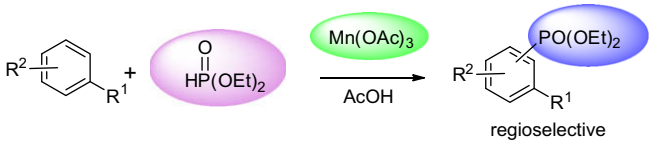


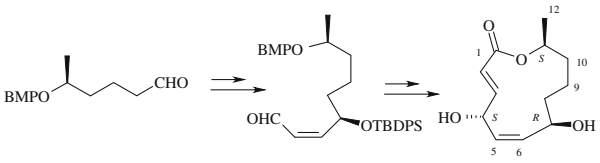
Mesoporous aluminosilicate (AlKIT-5) has been found to be an efficient catalyst for one pot synthesis of triazolo[1,2-*a*]indazole-1,3,8-trione derivatives from dimedone, urazole, and aromatic aldehydes using acetonitrile as a solvent. This new method is simple, effective, ecofriendly, and consistently has the advantage of excellent yields (80–96%) and short reaction time (30–60 min). The effect of the catalyst weight, aluminum content in the catalyst, and the solvents on the synthesis of triazolo[1,2-*a*]indazole-1,3,8-trione derivatives has been investigated. It has been found that the catalyst can be recycled for several times without much affecting its activity for a variety of organic transformations.

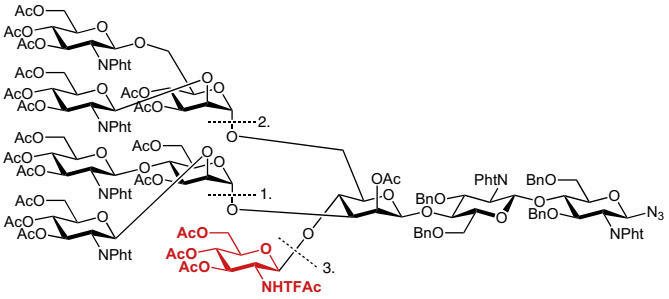


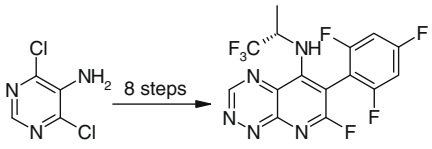
	R1	R2	R3
a	CH_3	H	H
b	H	Cl	H
c	H	*t*-Bu	H
d	H	CH_3	H
e	H	H	H
f	H	H	NO_2



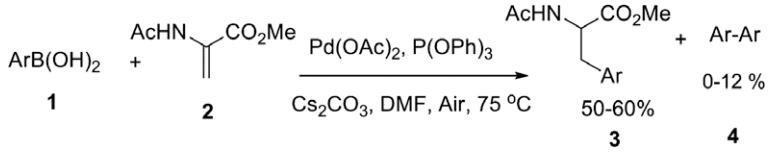


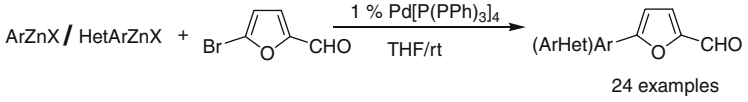


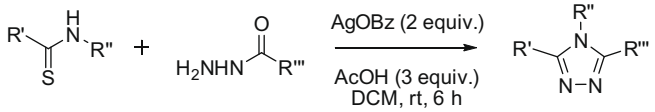


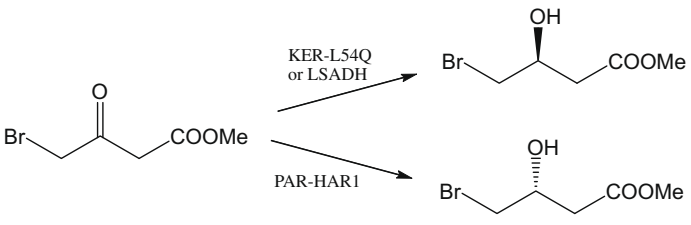


fungicidally active against *Mycosphaerella graminicola* (wheat leaf blotch), *Magnaporthe grisea* (rice blast) and *Rhizoctonia solani* (rice sheath blight)









OTHER CONTENTS

*Corresponding author
Supplementary data available via ScienceDirect

COVER

The cover figure shows a safe and convenient method of benzylation and allylation of triialkylsilyl enol ethers and allyltrialkylsilanes. The reaction rests upon the activation of the non-genotoxic benzyl and allylacetates by *in situ* generated trialkylsilyl triflimides.
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