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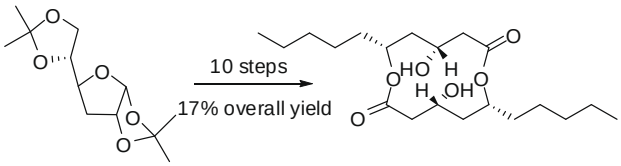
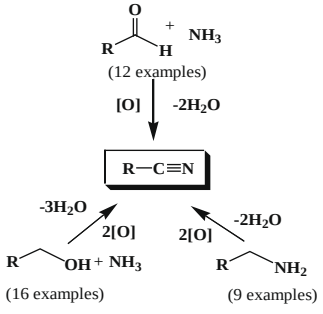
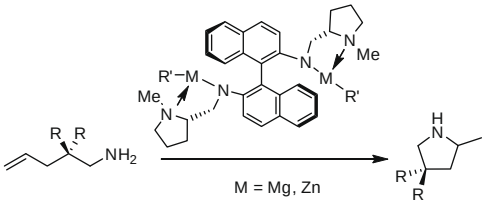
Contents

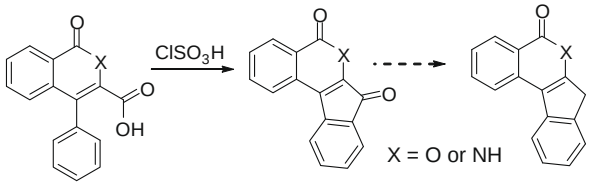
Communications



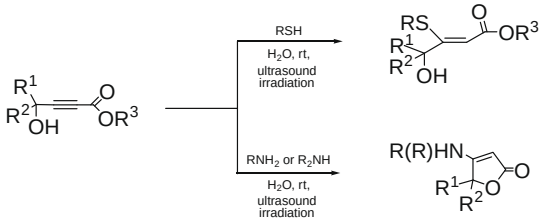


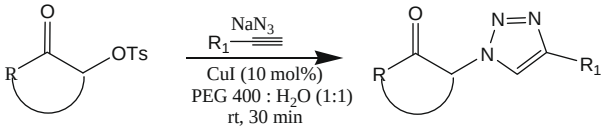
The oxidative conversion of alcohols, aldehydes and amines to give the corresponding nitrile products in excellent yields was easily achieved by the catalytic amount of KI or I_2 in combination with TBHP as external oxidant. This non-transition metal catalyst is cost effective and provides easy work-up and separation of the product.

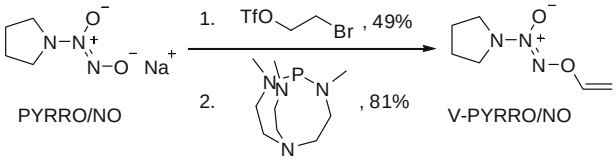




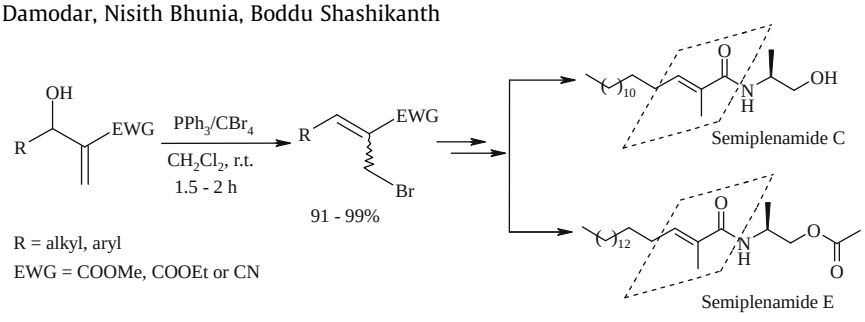
A highly efficient method has been developed for the synthesis of 3-oxoindeno[2,1-*c*]isocoumarins and 3-oxoindeno[2,1-*c*]isoquinolinones.

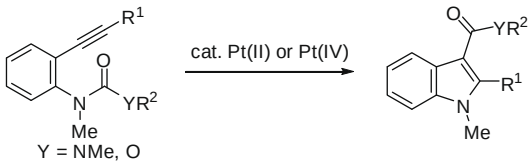


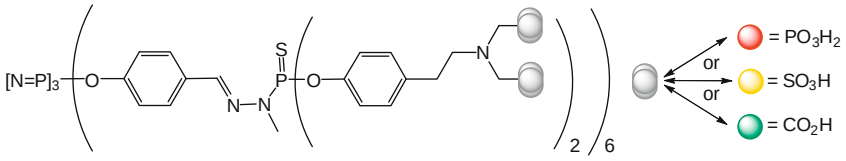




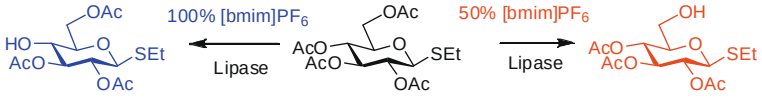
An improved synthesis of V-PYRRO/NO is reported and applied to the preparation of additional O^2-vinylated diazeniumdiolates.



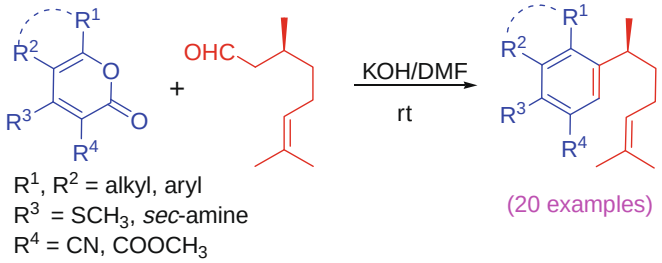


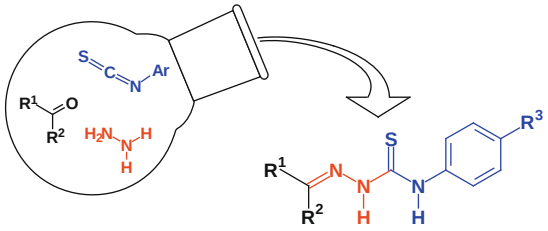


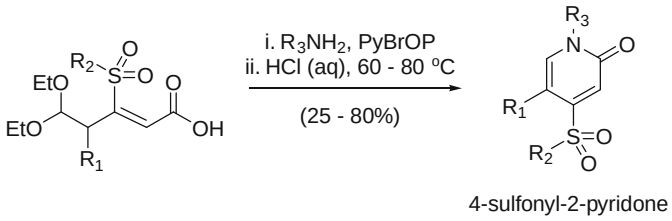
The synthesis and characterization of phosphorus-containing dendrimers capped with isosteric *N*-bismethylene carboxylic and sulfonic acids derived from tyramine is described, allowing the preparation of compounds that are strict analogs of the corresponding *N*-bismethylene phosphonic acid functions derived from tyramine.

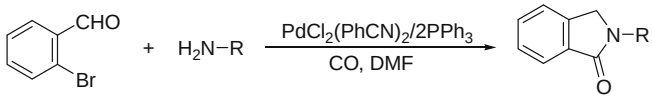


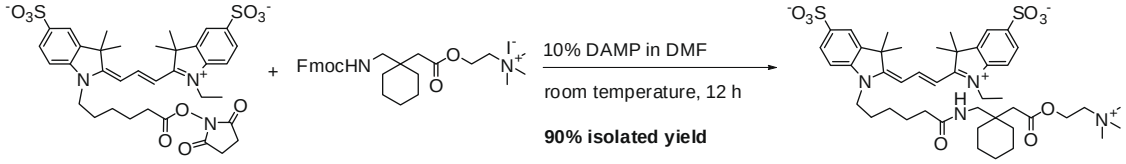
An easy preparation of ethyl 2,3,4-tri-*O*-acetyl-1-thio-β-D-glucopyranoside or ethyl 2,3,6-tri-*O*-acetyl-1-thio-β-D-glucopyranoside via a selective *Candica cylindracea* lipase-catalyzed mono-deprotection of a peracetylated precursor is described. The influence of the ratio of [bmim]PF_6/buffer toward the regioselectivity and the acyl migration is discussed.

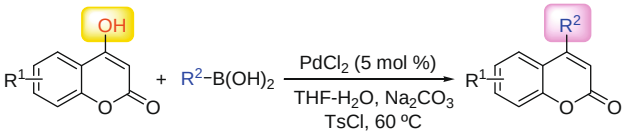


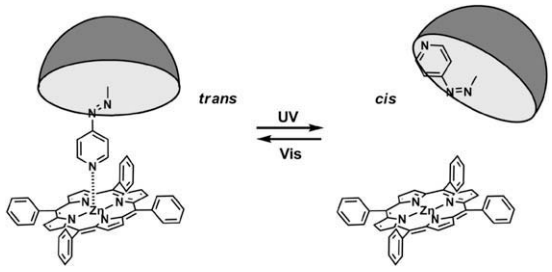


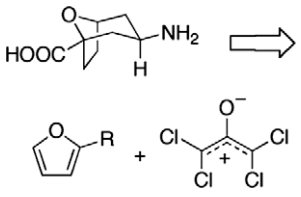




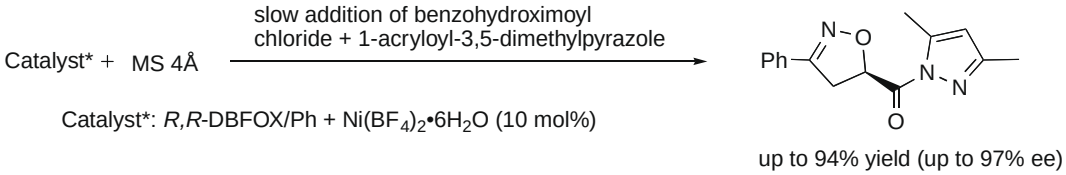




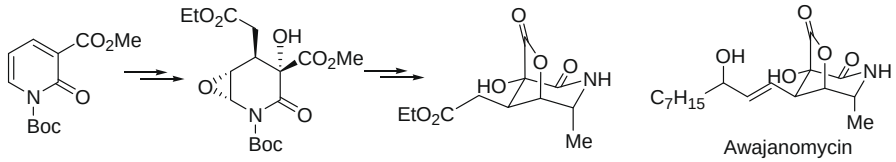




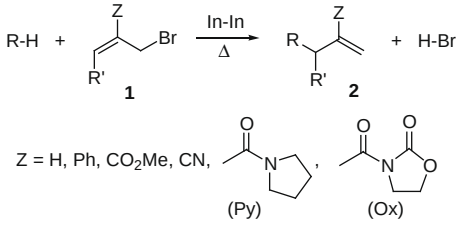
A rigid GABA analog was prepared from a cycloadduct obtained from a [4+3]-cycloaddition between a 2-substituted furan and the oxyallylic cation derived from pentachloroacetone.



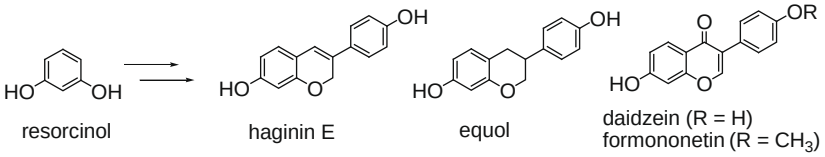
up to 94% yield (up to 97% ee)

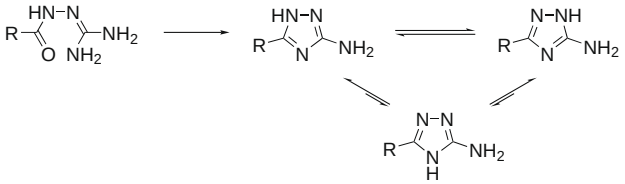


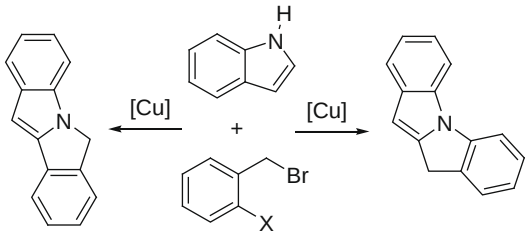
Synthesis of the core ring system of awajanomycin is described.



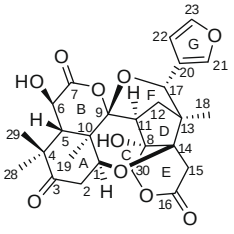
The scope and limitations of a novel free radical chain process involving the addition of benzyl radicals to substituted allyl bromides were examined and extended to explore the effect of α-substitution on the allyl bromide (R′), and the use of pyrrolidine amides and oxazolidinone as activating substituents (Z) as the first steps toward the development of a stereoselective, radical-based C–C bond-forming reaction which is environmentally benign.



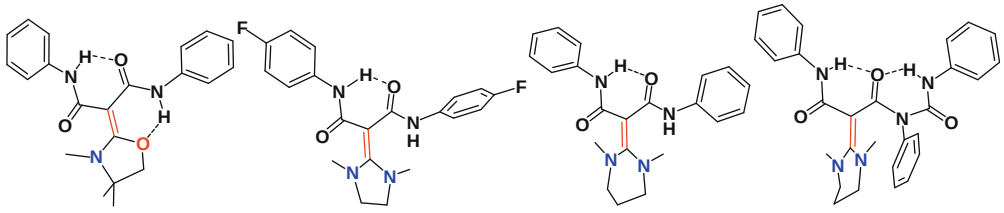




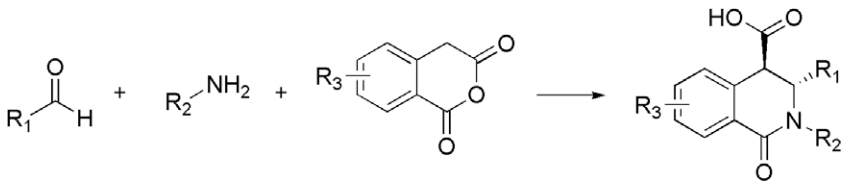
The key steps of the strategy are based on copper-catalysed C_{aryl}–C (the first reported copper-mediated intramolecular C–H functionalisation of an indole) and C_{aryl}–N bond formation reactions, respectively.

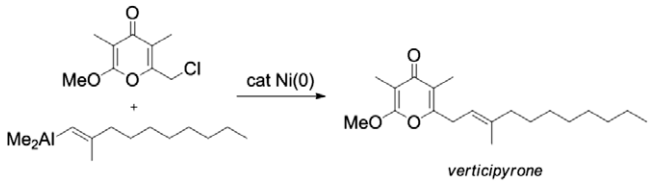


Trichilin B (**2**)

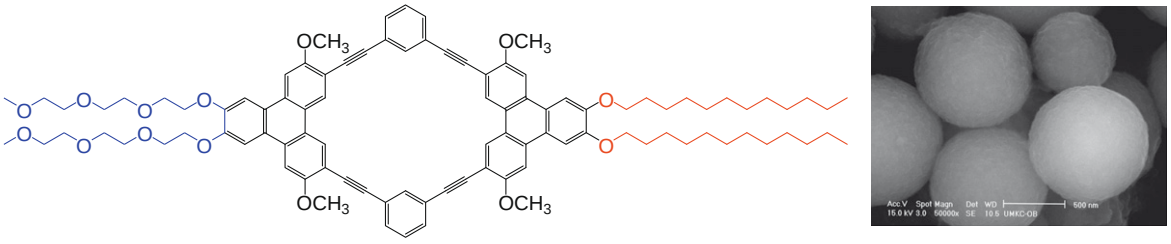


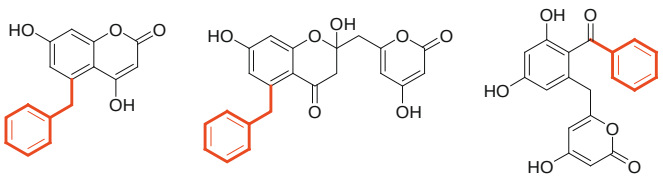
C=C Length:	1.39Å	1.45Å	1.47Å	1.47Å
C=C Twist:	~25°	~57°	~67°	~71°



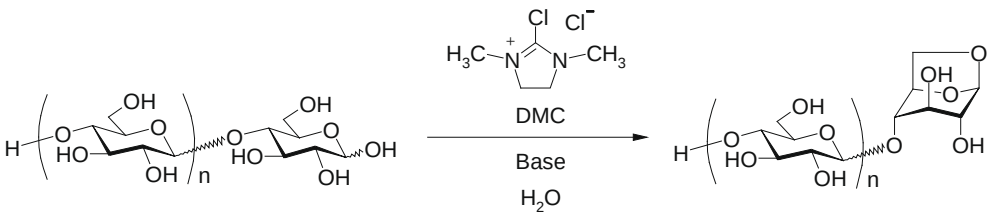


Verticipyrone has been synthesized in six overall steps from commercially available ethyl 2-methylacetoacetate. This represents the first successful application of a modified Negishi carboalumination/nickel-catalyzed cross-coupling reaction to a chloromethylated γ-pyrone.





Six novel unnatural polyketides have been produced by plant-specific type III polyketide synthase.



OTHER CONTENT

*Corresponding author

ⓘ+ Supplementary data available via ScienceDirect

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