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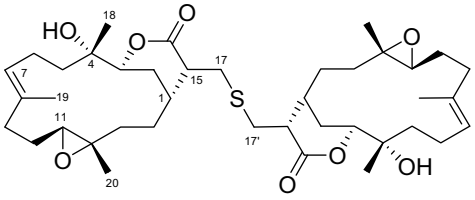
Contents

COMMUNICATIONS



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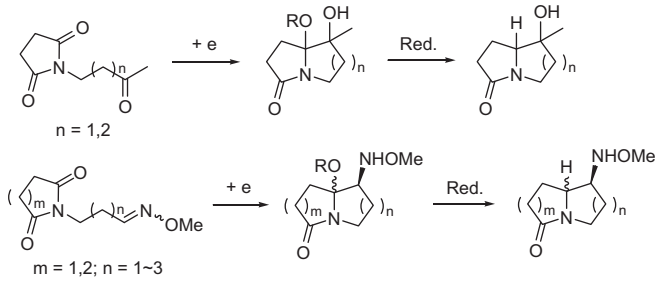
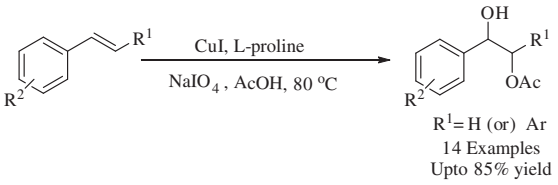
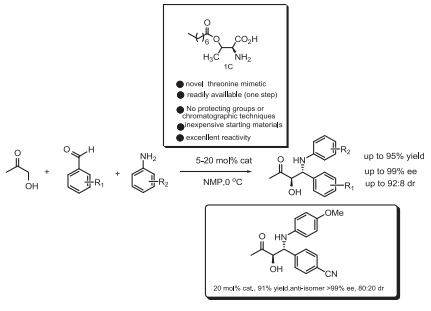
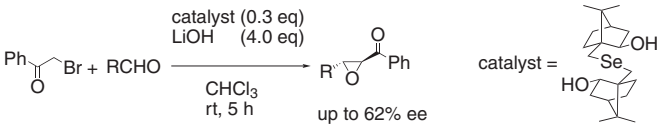
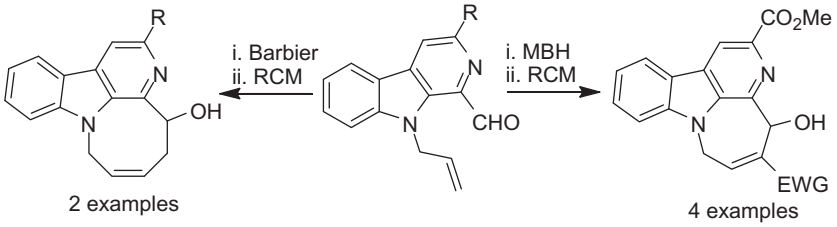
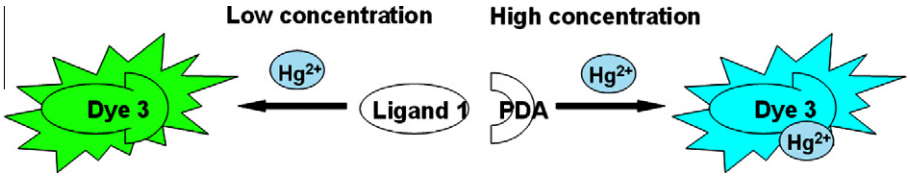


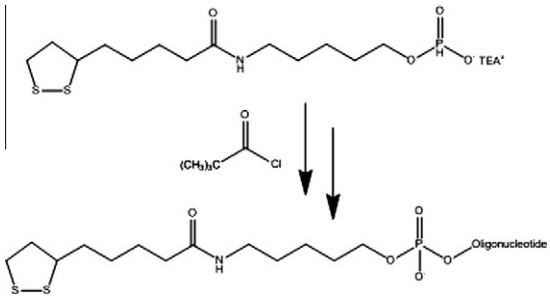




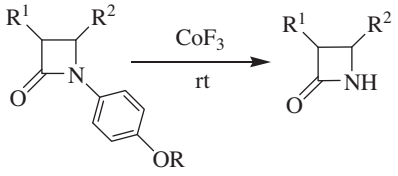


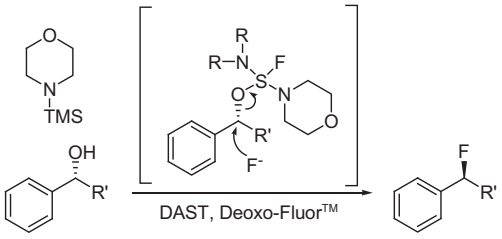




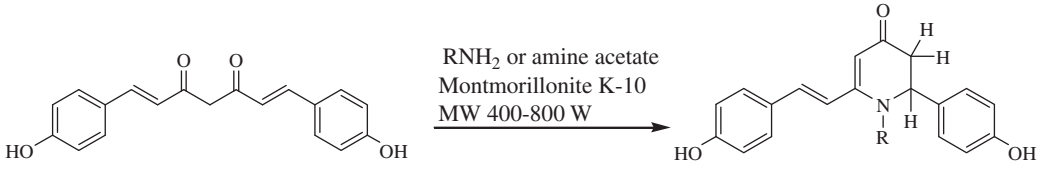


A convenient route for 5′-modification of an oligonucleotide with a cyclic disulfide, thioctic acid, is reported using the H-phosphonate method.

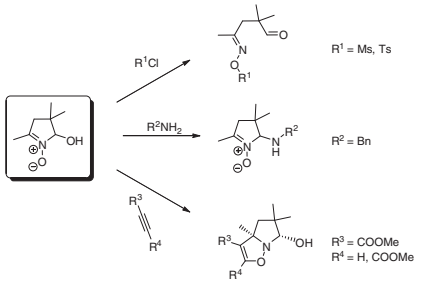


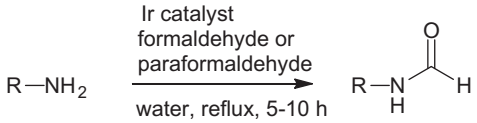


Stereospecific benzylic fluorinations are carried out on particularly challenging substrates.

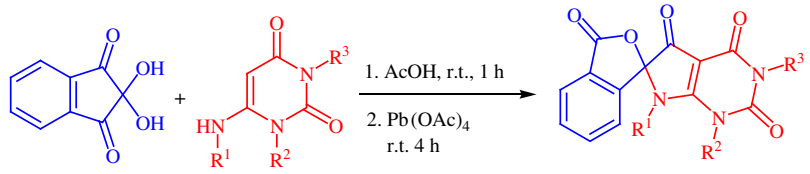


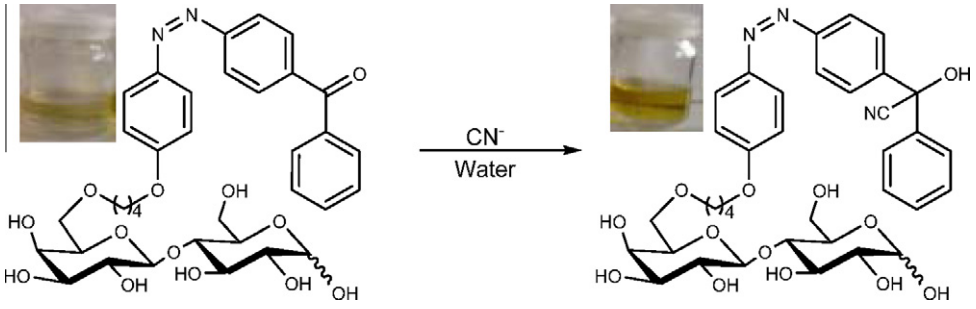
A novel synthesis of 2,3-dihydro-4-pyridinones via the reaction of bisdemethoxycurcumin and primary amines or amine acetates is demonstrated.

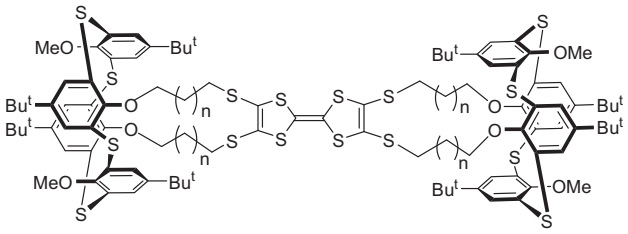


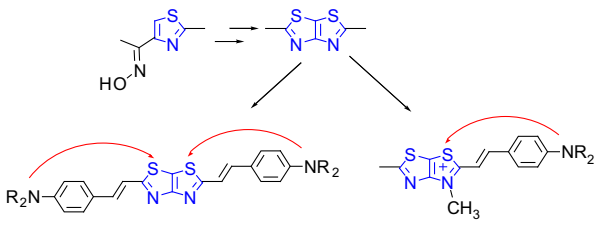


The reaction of amines with either formaldehyde or paraformaldehyde in water in the presence of $[Cp^*IrI_2]_2$ affords the corresponding formamides in good yields.

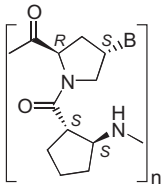




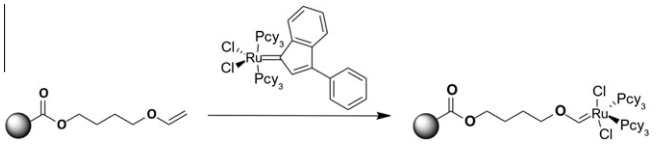


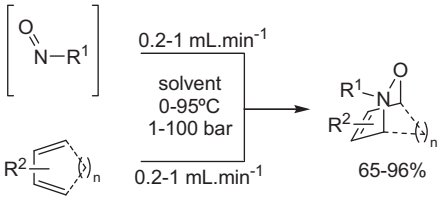


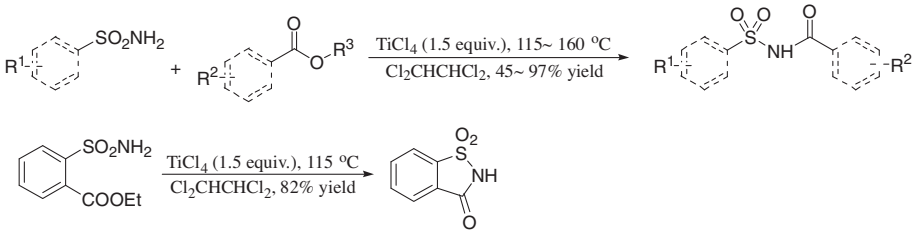
A new route to 2,5-dimethylthiazolo[4,5-*d*]thiazole has been developed. The condensation products of this compound represent dipolar D-π-A or quadrupolar D-π-A-π-D structures with intramolecular charge transferability.



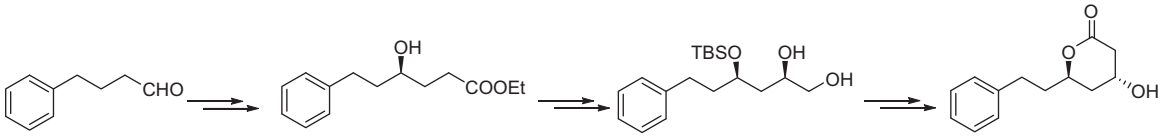
A pyrrolidinyl peptide nucleic acid (PNA) with an alternating nucleobase-modified proline at the 4′ position with (2′*R*,4′*S*) configuration and a (1*S*,2*S*)-2-aminocyclopentane-carboxylic acid backbone was synthesized and its DNA-, RNA- and self-pairing properties evaluated.

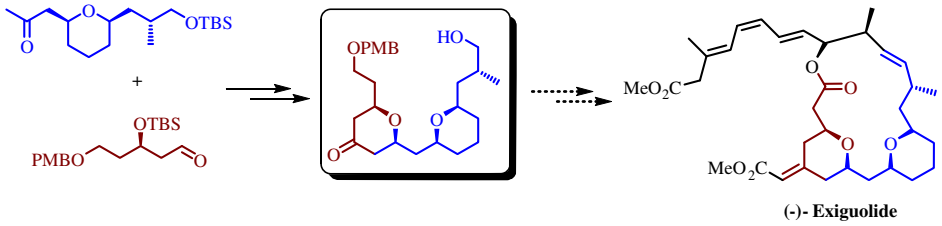


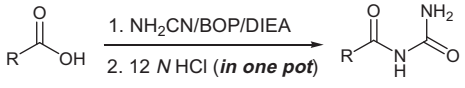




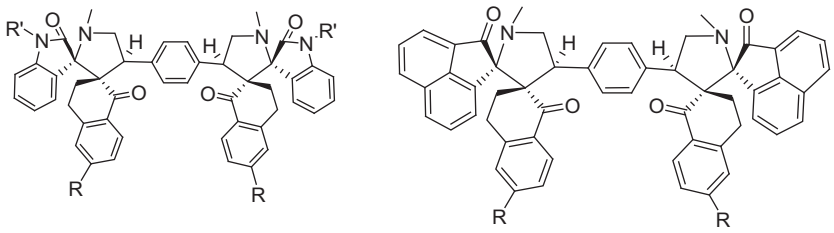
Several Lewis acids were investigated as promoters in the intermolecular or intramolecular direct N-acylation reaction of sulfonamides using carboxylic ester as an acylating agent. $TiCl_4$ was found to possess the highest activity and enhanced efficiently sulfonamide to form *N*-acylsulfonamides under optimized conditions. This method provides a novel approach to make *N*-acylsulfonamides from ester via an easy work-up procedure.







A new procedure for the synthesis of primary acylureas from cyanamide and a variety of carboxylic acids is described. Under mild reaction conditions, the products were obtained in good yield from commercially available starting materials.



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Supplementary data available via ScienceDirect

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