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Organic & Biomolecular Chemistry

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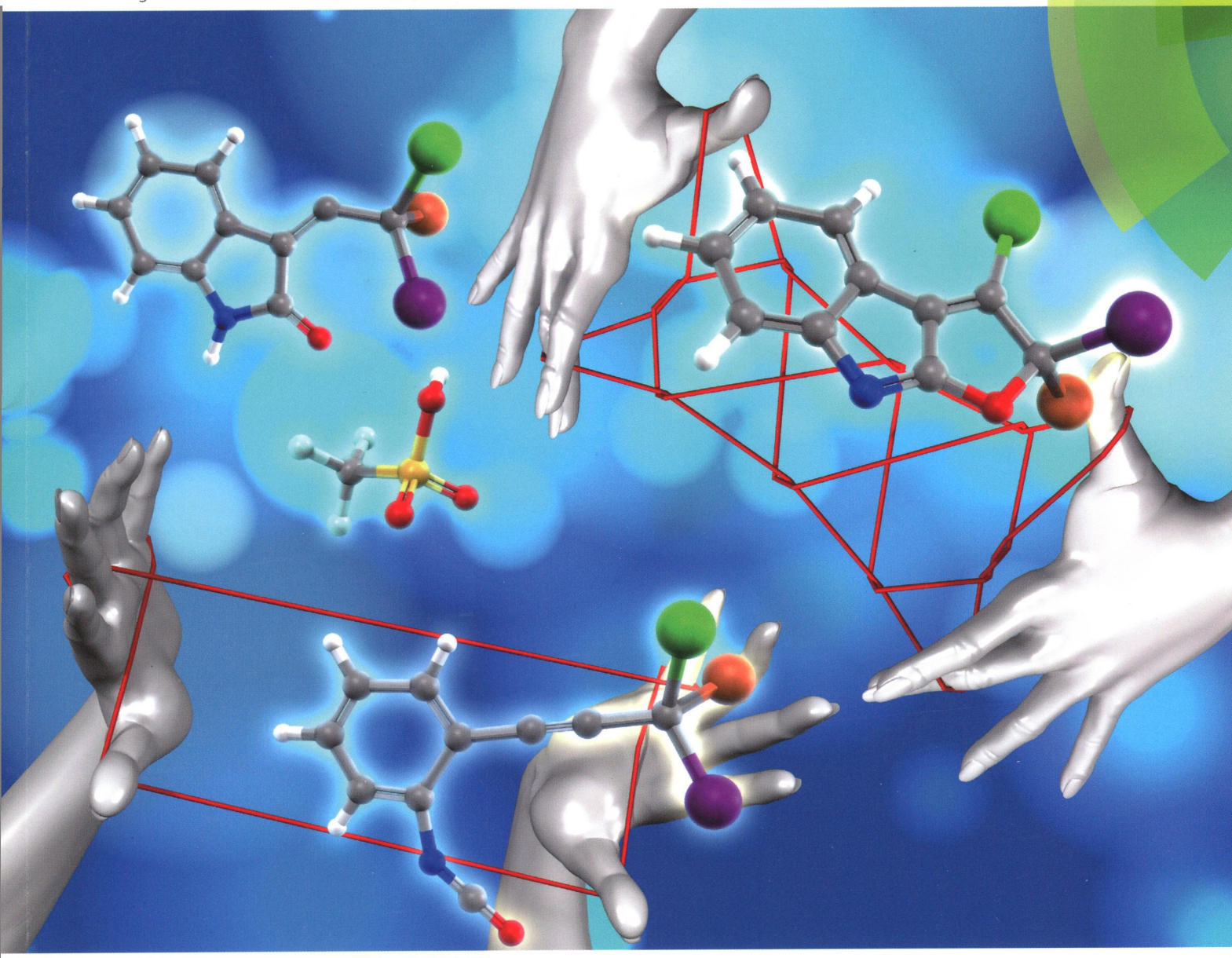

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ROYAL SOCIETY OF CHEMISTRY

PAPER
Takao Saito, Takashi Otani *et al.*
Triflic acid-promoted cycloisomerization of 2-alkynylphenyl isothiocyanates and isocyanates: a novel synthetic method for a variety of indole derivatives

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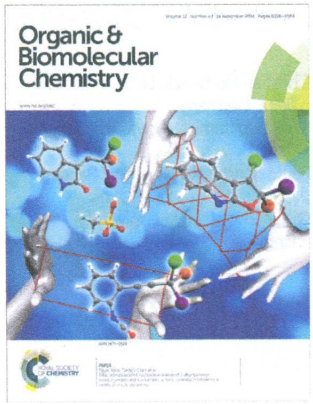

Cover
See Takao Saito, Takashi Otani *et al.*, pp. 8398–8407.

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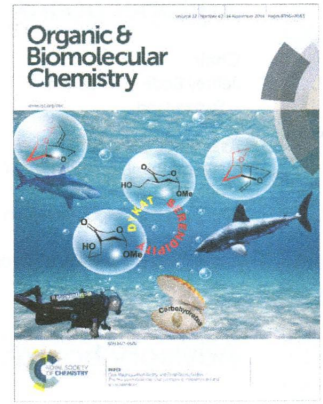

Inside cover
See Gadi Madhusudhan Reddy and Perali Ramu Sridhar, pp. 8408–8414.

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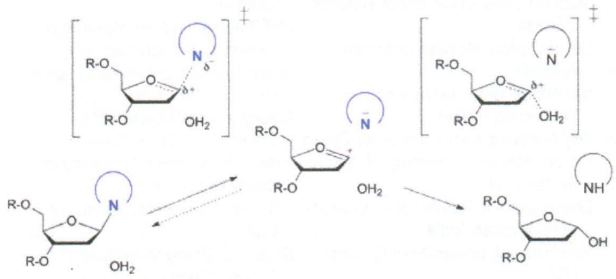
REVIEW

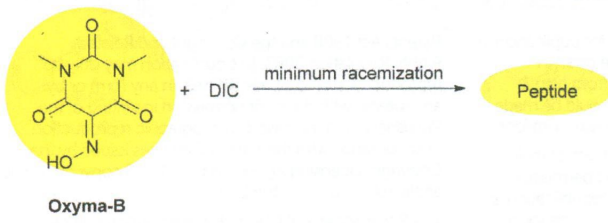


Mechanisms for enzymatic cleavage of the *N*-glycosidic bond in DNA

Alexander C. Drohat* and Atanu Maiti

We review advances in understanding the mechanism of DNA glycosylases, emphasizing the role of the nucleobase leaving-group.

COMMUNICATIONS



Oxyma-B, an excellent racemization suppressor for peptide synthesis

Yahya E. Jad, Sherine N. Khattab, Beatriz G. de la Torre, Thavendran Govender, Hendrik G. Kruger, Ayman El-Faham* and Fernando Albericio*

Oxyma-B, a superb additive for the control of optical purity during the synthesis of peptides.

COMMUNICATIONS

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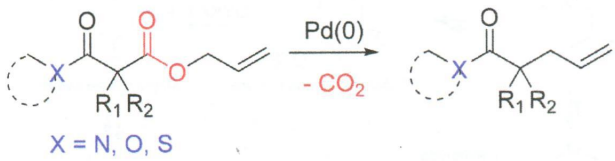

Decarboxylative allylations of ester enolate equivalents

Yamuna Ariyarathna and Jon A. Tunge*

A variety of ester enolate equivalents are generated *in situ* and undergo α-allylation in high yields *via* palladium-catalyzed decarboxylative allylation.

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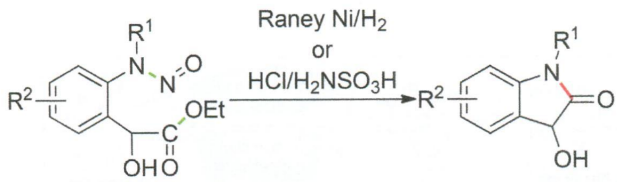

An intermolecular C–H functionalization method for the synthesis of 3-hydroxy-2-oxindoles

Jinsen Chen, Chao Song, Pei Chen and Jin Zhu*

An intermolecular C–H functionalization with a denitrosation-triggered cyclization method is developed for the synthesis of 3-hydroxy-2-oxindoles.

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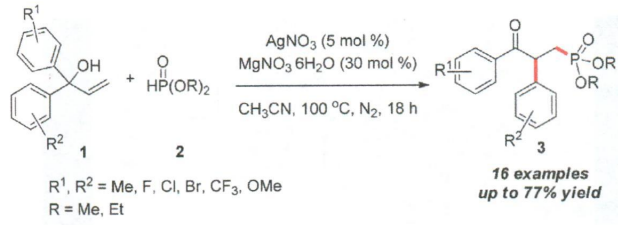

Silver-catalyzed carbonphosphonation of α,α-diaryl allylic alcohols: synthesis of β-aryl-γ-ketophosphonates

Xia Mi, Chenyang Wang, Mengmeng Huang,* Yusheng Wu* and Yangjie Wu*

Silver-catalyzed carbonphosphonation of α,α-diaryl allylic alcohols is achieved.

PAPERS

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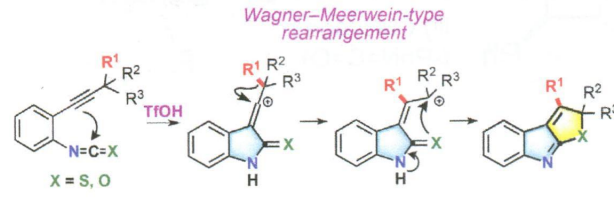

Triflic acid-promoted cycloisomerization of 2-alkynylphenyl isothiocyanates and isocyanates: a novel synthetic method for a variety of indole derivatives

Takao Saito,* Yoshihiko Sonoki, Takashi Otani* and Noriki Kutsumura

A unique method for synthesis of structurally diverse types of indoles involving a triflic acid-promoted cycloisomerization and a Wagner–Meerwein-type rearrangement is described.