G. ZUCCARELLO, J. G. MAYANS, I. ESCOFET, D. SCHARNAGEL, M. S. KIRILLOVA, A. H. PÉREZ-JIMENO, P. CALLEJA, J. R. BOOTHE, A. M. ECHAVARREN* (BARCELONA INSTITUTE OF SCIENCE AND TECHNOLOGY AND UNIVERSITAT ROVIRA I VIRGILI, TARRAGONA, SPAIN)

Enantioselective Folding of Enynes by Gold(I) Catalysts with a Remote C₂-Chiral Element
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Gold-Catalyzed Enantioselective Cyclizations of Enynes through Remote Enantioinduction

Category

Metals in Synthesis

Key words

gold catalysis

remote enantioinduction

enynes

carexanes

Synfact
of the Month

Synthesis of azabicyclo[4.1.0]hept-4-enes:

Selected examples:

Synthesis of 1,2-dihydronaphthalenes:

Asymmetric total syntheses of carexanes I, O, and P:

Significance: Various cyclizations were realized in an enantioselective fashion through the use of a modified JohnPhos ligand with a distal C₂ 2,5-diarylpyrrolidine.

Comment: Hydrocyclization products were used successfully in the first enantioselective total syntheses of three natural products from the carexane family.

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