

Tandem reactions on a zirconocene template

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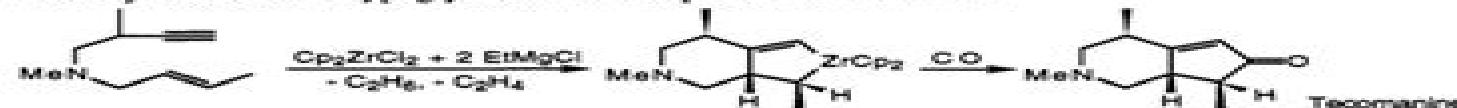
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Abstract: Co-cyclisation of alkenes with alkenes or alkynes and zirconocene gives zirconacycles which are further elaborated by the consecutive insertion of allyl, propargyl, or allenyl metal carbenoids and electrophiles. Insertion of other carbenoids give the first zirconacyclohexanes with the potential for further elaboration.

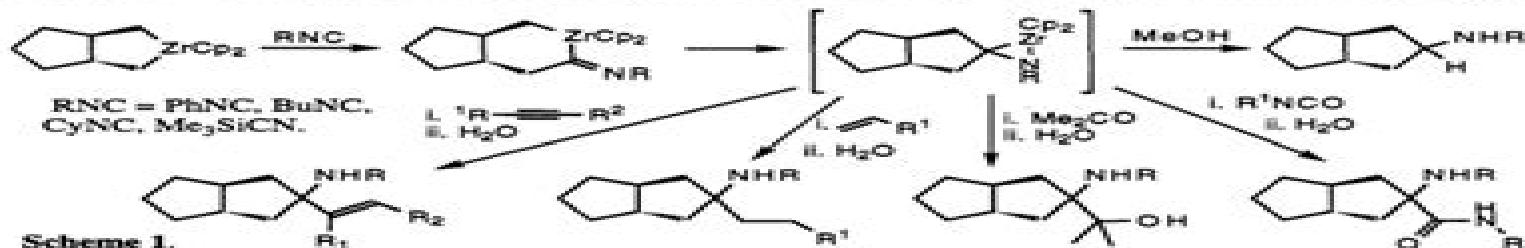
The intramolecular co-cyclisation of 1, n -dienes and -enyne with $[\text{Cp}_2\text{Zr}]$ (zirconocene) to give zirconacycles is a useful process for the synthesis of carbocyclic and heterocyclic systems¹. It is most conveniently carried out using the 'zirconocene' equivalent zirconocene 1-butene (the Negishi reagent²) formed *in situ* from dibutylzirconocene (Eq 1). Efficient use of the metal relies on productive elaboration of the carbon-zirconium bonds in the intermediate zirconacycles³ and this paper summarises some of our contributions.



One useful elaboration method is carbonylation to give cyclopentanones or cyclopentenones, for example in our synthesis of the hypoglycaemic natural product tecomanine⁴.



An intermediate in carbonylation is a zirconocene η^2 -ketone complex, the nitrogen analogues of which (zirconocene η^2 -imine complexes) have been shown to be useful carbometallating reagents⁵. We discovered that insertion of a variety of isocyanides into zirconacycles in the presence of suitable trapping



Tandem Organic Reactions

Ying-Ying Zheng

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Tandem Organic Reactions Tse-Lok Ho, 1992-08-17 The importance of tandem reactions is evident besides their pragmatic value they have an aesthetic appeal. The author presents a survey of these reactions that will rivet the attention of numerous chemists to their merits and utility as well as stimulate design and discovery of new sets of tandem reactions. Coverage includes Aldol condensation Michael Reaction Dieckmann cyclization thermal and free radical processes stitching reactions and much more

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Recent Advances in Applications of Name Reactions in Multicomponent Reactions Majid M. Heravi, Vahideh Zadsirjan, 2020-05-29 Recent Advances in Applications of Name Reactions in Multicomponent Reactions is an ideal reference for researchers and postgraduate students studying organic chemistry as well as synthetic organic chemists working on the development of novel methodologies for the synthesis of various heterocyclic systems especially drug design and discovery in both academia and industry The book reviews recent applications of name reactions in multicomponents for the synthesis of heterocycles and examines recent advances in applications of significant name reactions such as Ugi and Passirini Click Knoevenagel Michael Diels Alder Aldol Mannich Heck Huisgen and Suzuki in MCRs These reactions can be used in the synthesis of a wide variety of novel heterocycles with different sizes and heteroatoms as well as in the total synthesis of natural products in order to decrease the number of synthetic steps Since chiral inductions are necessary for most of these sequential name reactions their asymmetric catalyzed reactions are also described Includes the synthesis of many heterocycles which is ideal for synthetic organic chemists engaged in the synthesis of heterocyclic systems Covers the recent advances of asymmetric synthesis of a wide range of heterocycles in satisfactory enantioselectivities ees or distereoselectivities des Reviews the synthesis of a wide variety of interesting heterocycles by using a combination of different and versatile name reactions via MCRs

Intermolecular [5+2] Cycloadditions Marc J. C. Scanio, 2002 **Russian Chemical Reviews**, 2000 **Chemtracts**, 2004 *The Design and Development of New Transition Metal-catalyzed Serial and Multi-component Cycloadditions* Gabriel Grant Gamber, 2004 **Alkenes** Reza Davarnejad, Baharak Sajjadi, 2018-02-07 In organic chemistry Alkenes also known as olefins are the unsaturated hydrocarbons with the general formula of C_nH_{2n} that contains one or more carbon carbon double bonds

in their chemical structures RC CR The presence of this double bond allows alkenes to react in ways that alkanes cannot Hence alkenes find many diverse applications in industry These compounds are widely used as initial materials in the synthesis of alcohols plastics lacquers detergents and fuels The current book includes all knowledge and novel data according to the structure of alkenes their novel synthesis methods and their applications In addition manufacture properties and the use of polyalkenes are the other important topics that are covered in this book These data are collected by the efforts and contributions of many authors and scientists from all over the globe and all of us are ready to further improve the contents of this book as per the readers comments *Ruthenium and Rhodium-catalyzed Atom Economical Reactions*

Andrew McClory,2007 **Perspectives in Organopalladium Chemistry for the 21st Century** J. Tsuji,1999-11-09

Perspectives in Organopalladium Chemistry for the 21st Century is a monograph on modern organopalladium chemistry with an emphasis on the use of palladium in organic synthesis The collection of articles is reprinted from a special issue of the Journal of Organometallic Chemistry The field of organopalladium chemistry is evolving rapidly building on a growing catalogue of reactions that employ palladium containing catalysts This book should hold particular interest for those who apply palladium reagents and catalysts to organic synthesis in fact palladium is considered by many to be the most useful transition element employed for organic syntheses This selection of articles by leading scientists published as Perspectives in Organopalladium Chemistry for the 21st Century provides an impressive overview of the field that every chemist who works with organometallic palladium catalysts should read **Handbook of Cyclization Reactions** Shengming Ma,2010 The ultimate and only reference source in this field this handbook discusses the latest advances on the reactions leading to the formation of cyclic structures and includes chapters presenting the most synthetically attractive cyclization reactions Leading chemists from around the world provide authoritative first hand information including experimental procedures that offer readers valuable practical information that is otherwise unavailable An aid for every organic chemist in grasping and applying these new reactions *Second Supplements to the 2nd Edition of Rodd's Chemistry of Carbon Compounds* Ernest Harry Rodd,1995 **Australian Journal of Chemistry** ,2009 **Chemija** ,1999 **Stereoselectivity in Synthesis** Tse-Lok Ho,1999-03-25 In planning a synthesis how does one select the appropriate method for making the preferred stereoisomer Stereoselectivity in Synthesis answers this question and much more Highly respected scientist Tse Lok Ho offers a systematic review of the synthetic literature addressing the proliferation in recent years of methodologies related to reaction stereoselectivity He extracts the most useful examples to illustrate the basic principles of organic stereochemistry and its application and helps readers solve real world stereochemical problems in organic and medicinal chemistry as well as in the pharmaceutical agricultural and food industries **Metal-catalyzed Cross-coupling Reactions** François Diederich,Peter J. Stang,1998-02-11 Carbon carbon bond forming reactions are arguably the most important processes in chemistry as they represent key steps in the building of complex molecules from simple precursors Among these reactions metal catalyzed

cross coupling reactions are extensively employed in a wide range of areas of preparative organic chemistry ranging from the synthesis of complex natural products to supramolecular chemistry and materials science. In this work a dozen internationally renowned experts and leaders in the field bring the reader up to date by documenting and critically analyzing current developments and uses of metal catalyzed cross coupling reactions. A particularly attractive and useful feature that enhances the practical value of this monograph is the inclusion of key synthetic protocols in experimental format chosen for broad utility and application. This practice oriented book can offer the practitioner short cuts to ensure they remain up to date with the latest developments.

Encyclopedia of Analytical Science Alan Townshend, 1995 V 1 A Che v 2 Chi Fla v 3 Flow Gas v 4 Gast Lip v 5 Liq Micros v 6 M icrow Pha v 7 Pha Rut v 8 Sam Sur v 9 Swe Z v 10 Index directories and appendices

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