

## Tandem reactions on a zirconocene template

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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 zirconacyclobexanes with the potential for further elaboration.

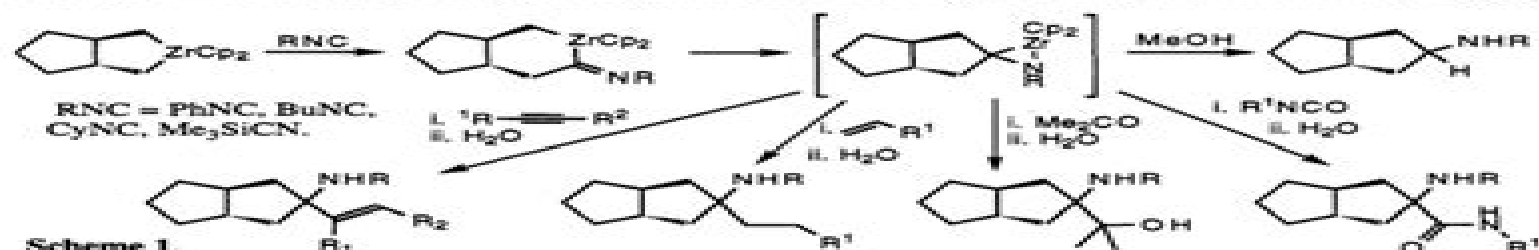
The intramolecular co-cyclisation of 1,*n*-dienes and -enynes with 'Cp<sub>2</sub>Zr' (zirconocene) to give zirconacycles is a useful process for the synthesis of carbocyclic and heterocyclic systems<sup>1</sup>. It is most conveniently carried out using the 'zirconocene' equivalent zirconocene 1-butene (the Negishi reagent<sup>2</sup>) formed *in situ* from dibutylzirconocene (Eq 1). Efficient use of the metal relies on productive elaboration of the carbon-zirconium bonds in the intermediate zirconacycles<sup>3</sup> 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 tecomanine<sup>4</sup>.



An intermediate in carbonylation is a zirconocene  $\eta^2$ -ketone complex, the nitrogen analogues of which (zirconocene  $\eta^2$ -imine complexes) have been shown to be useful carbometallating reagents<sup>5</sup>. We discovered that insertion of a variety of isocyanides into zirconacycles in the presence of suitable trapping



Scheme 1.

# Tandem Organic Reactions

**Ying-Ying Zheng**



## **Tandem Organic Reactions:**

*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

*The Chemistry of Organolithium Compounds* Zvi Rappoport, Ilan Marek, 2006-06-14 Patai Series The Chemistry of Functional Groups A series of advanced treatises founded by Professor Saul Patai and under the general editorship of Professor Zvi Rappoport The Patai Series publishes comprehensive reviews on all aspects of specific functional groups Each volume contains outstanding surveys on theoretical and computational aspects NMR MS other spectroscopical methods and analytical chemistry structural aspects thermochemistry photochemistry synthetic approaches and strategies synthetic uses and applications in chemical and pharmaceutical industries biological biochemical and environmental aspects To date over 100 volumes have been published in the series Recently Published Titles The chemistry of the Cyclopropyl Group Volume 2 The chemistry of the Hydrazo Azo and Azoxy Groups Volume 2 2 parts The chemistry of Double Bonded Functional Groups Volume 3 2 parts The chemistry of Organophosphorus Compounds Volume 4 The chemistry of Halides Pseudo Halides and Azides Volume 2 2 parts The chemistry of the Amino Nitro and Nitroso Groups 2 volumes 2 parts The chemistry of Dienes and Polyenes 2 volumes The chemistry of Organic Derivatives of Gold and Silver The chemistry of Organic Silicon Compounds 2 volumes 4 parts The chemistry of Organic Germanium Tin and Lead Compounds Volume 2 2 parts The chemistry of Phenols 2 parts The chemistry of Organolithium Compounds 2 parts The chemistry of Cyclobutanes 2 parts Forthcoming Titles The chemistry of Peroxides Volume 2 2 parts The chemistry of Organozinc Compounds The chemistry of Anilines The Patai Series Online The Patai Series is available in electronic format on Wiley InterScience All new titles will be published online and a growing list of older titles is added every year It is the ultimate goal that all titles published in the Patai Series will be available in electronic format

*Organocatalysis* Bimal Krishna Banik, Bubun Banerjee, 2022-06-21 Organocatalysis are an important tool for greener catalytic processes due to the lack of precious metals used This book explores different organocatalysts and their use in synthesis Topics covered include zwitterionic imidazolium salt catalysts asymmetric catalysts in aqueous media beaker yeast catalysis organocatalysts for Aldol and Michael reactions amino acid based organocatalysts and Br nsted acidic surfactant organocatalysts

*Practical Process Research and Development* Neal G. Anderson, 2000-06-05 This book provides a comprehensive step by step approach to organic process research and development in the pharmaceutical fine chemical and agricultural chemical industries Process R optimising catalytic reactions chiral syntheses and green chemistry Practical Process Research and Development will be a valuable resource for researchers managers and graduate students Provides insights into generating rugged practical cost effective

processes for the chemical preparation of small molecules Breaks down process optimization into route reagent and solvent selection development of reaction conditions workup crystallizations and more Includes over 100 tips for rapid process development Presents guidelines for implementing and troubleshooting processes Classics in Total Synthesis K. C. Nicolaou, E. J. Sorensen, 1996-04-11 K C Nicolaou Winner of the Nemitsas Prize 2014 in Chemistry This book is a must for every synthetic chemist With didactic skill and clarity K C Nicolaou and E Sorensen present the most remarkable and ingenious total syntheses from outstanding synthetic organic chemists To make the complex strategies more accessible especially to the novice each total synthesis is analyzed retrosynthetically The authors then carefully explain each synthetic step and give hints on alternative methods and potential pitfalls Numerous references to useful reviews and the original literature make this book an indispensable source of further information Special emphasis is placed on the skillful use of graphics and schemes Retrosynthetic analyses reaction sequences and stereochemically crucial steps are presented in boxed sections within the text For easy reference key intermediates are also shown in the margins Graduate students and researchers alike will find this book a gold mine of useful information essential for their daily work Every synthetic organic chemist will want to have a copy on his or her desk *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 or diastereoselectivities 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 Microw Pha v 7 Pha Rut v 8 Sam Sur v 9 Swe Z v 10 Index directories and appendices

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