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Autore	Meaglia, Piero
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Nota di contenuto	The Mizoroki-Heck Reaction; Contents; Foreword; Preface; Contributors; 1 Mechanisms of the Mizoroki-Heck Reaction; 1.1 Introduction; 1.2 Mechanism of the Mizoroki-Heck Reaction when the Catalytic Precursor is Pd(OAc)2 in the Absence of Ligand; 1.3 Mechanism of the Mizoroki-Heck Reaction when the Catalytic Precursor is Pd(OAc)2 Associated with Monophosphine Ligands; 1.3.1 Pd(0) Formation from Pd(OAc)2 in the Presence of a Monophosphine Ligand; 1.3.2 Oxidative Addition; 1.3.2.1 Oxidative Addition of Aryl Iodides; 1.3.2.2 Oxidative Addition of Aryl Triflates 1.3.3 Complexation/Insertion of the Alkene1.3.4 Multiple Role of the Base; 1.3.5 Catalytic Cycle; 1.3.5.1 Factors Controlling the Efficiency of a Catalytic Reaction; 1.4 Mechanism of the Mizoroki-Heck Reaction when the Catalytic Precursor is Pd(OAc)2 Associated with Bisphosphine Ligands; 1.4.1 Pd(0) Formation from Precursor; 1.4.2 Oxidative

Addition; 1.4.3 Complexation/Insertion of the Alkene Regioselectivity; 1.4.4 Catalytic Cycles; 1.5 Mechanism of the Mizoroki-Heck Reaction when the Catalytic Precursor is a P,C-Palladacycle; 1.5.1 Pd(0) Formation from a P,C-Palladacycle
1.5.2 Catalytic Cycle1.6 Mechanism of the Mizoroki-Heck Reaction when the Ligand is an N-Heterocyclic Carbene; 1.6.1 Oxidative Addition; 1.6.2 Complexation/Insertion of the Alkene; 1.6.3 Catalytic Cycles; 1.7 Mechanism of the Mizoroki-Heck Reaction when the Ligand is a Bulky and Electron-Rich Monophosphine; 1.7.1 Oxidative Addition; 1.7.2 Complexation/Insertion of the Alkene; 1.7.3 Role of the Base in the Recycling of the Pd(0) Complex; 1.7.4 Catalytic Cycle; 1.8 Conclusion; References; 2 Focus on Catalyst Development and Ligand Design; 2.1 Introduction
2.2 General Considerations: Types of Catalytic System2.2.1 Substrate Dependence; 2.2.2 Ancillary Ligands; 2.2.3 Bases; 2.2.4 Additives; 2.2.5 Media; 2.2.6 Temperature; 2.3 Four Types of Intermolecular Mizoroki-Heck Catalytic System; 2.3.1 The Type 1 Catalytic System; 2.3.2 The Type 2 Catalytic System; 2.3.3 The Type 3 Catalytic System; 2.3.4 The Type 4 Catalytic System; 2.4 Palladium Precatalysts in Type 1 and Type 2 Mizoroki-Heck Reactions; 2.4.1 SRPCs; 2.4.2 Nanoparticles; 2.4.3 Supported Catalysts: Leaching versus Recycling; 2.4.4 Carbene Complexes
2.4.4.1 N-Heterocyclic Carbene-based Complexes2.4.4.2 N-Heterocyclic Carbene-Based Pincer Complexes; 2.4.4.3 Carbocyclic Carbene-based Complexes; 2.4.5 Palladacycles; 2.4.5.1 C,P-, C,S- and C,N-Palladacycles; 2.4.5.2 Pincer Palladacycles; 2.4.5.3 Palladacycle-Phosphine Complexes; 2.4.6 Nonphosphine Complexes; References; 3 Focus on Regioselectivity and Product Outcome in Organic Synthesis; 3.1 Introduction; 3.2 Mechanistic Aspects; 3.2.1 Oxidative Addition; 3.2.2 -Complex Formation and Migratory Insertion; 3.2.3 -H-Elimination and Palladium(0) Recycling
3.2.4 Cyclic Alkenes and Double-Bond Migration

Sommario/riassunto

Exploring the importance of Richard F. Heck's carbon coupling reaction, this book highlights the subject of the 2010 Nobel Prize in Chemistry for palladium-catalyzed cross couplings in organic synthesis, and includes a foreword from Nobel Prize winner Richard F. Heck. The Mizoroki-Heck reaction is a palladium-catalyzed carbon-carbon bond forming process which is widely used in organic and organometallic synthesis. It has seen increasing use in the past decade as chemists look for strategies enabling the controlled construction of complex carbon skeletons. The Mizoroki-Heck Reaction is