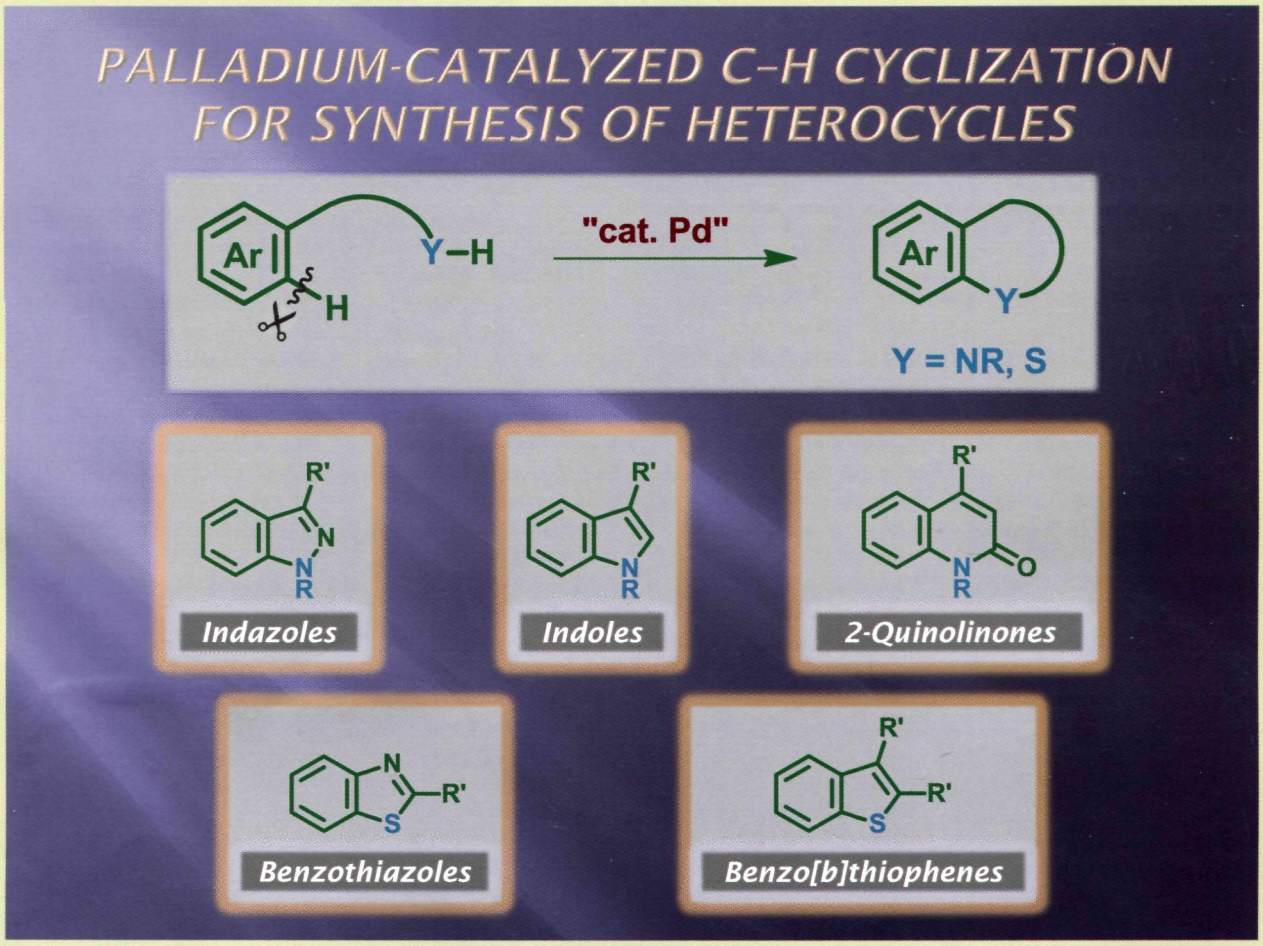
行 61巻10号平成25年10月1日発行 昭和35年8月15日 第3種郵便物認可 ISSN 0009-2363

Chemical and Pharmaceutical Bulletin

October 2013

Vol. 61 No. 10

CPBTAL 61 (10) 987–1098 (2013)



Synthesis of Heterocyclic Compounds through Palladium-Catalyzed C–H Cyclization Processes *pp. 987–996*

THE PHARMACEUTICAL SOCIETY OF JAPAN

http://cpb.pharm.or.jp

Chemical and Pharmaceutical Bulletin

Vol. 61, No. 10 October 2013

Contents

Review

Regular Articles

Notes

About the cover: Synthetic methods for heterocyclic compounds based on the palladium-catalyzed carbon–hydrogen bond (C–H) functionalization/intramolecular carbon–heteroatom (nitrogen or sulfur) bond formation process was developed. By using this C–H cyclization approach, various *N*-heterocycles, including indazoles, indoles, and 2-quinolinones, as well as *S*-heterocycles such as benzothiazoles and benzo[*b*]thiophenes, were efficiently prepared. Yields are typically good to high and good functional-group tolerance is observed for each process, thereby indicating that the method provides a novel, highly applicable synthetic route to the above-mentioned biologically important heterocyclic frameworks. See the review by Inamoto on page 987 of this issue.