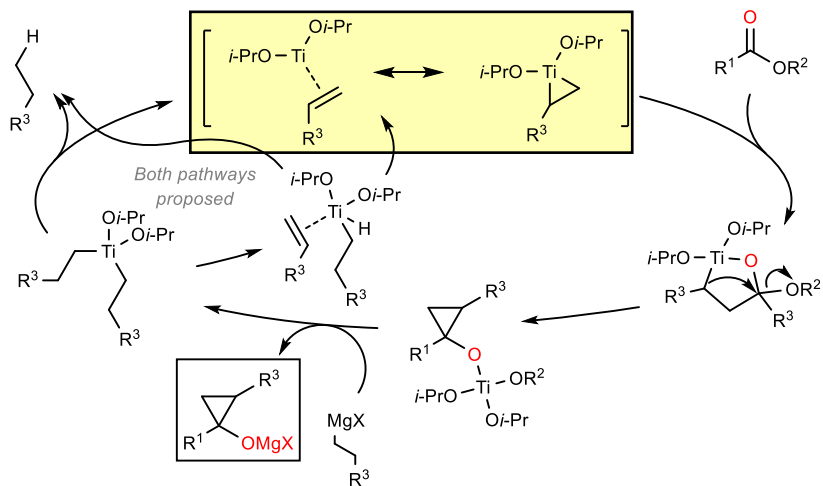
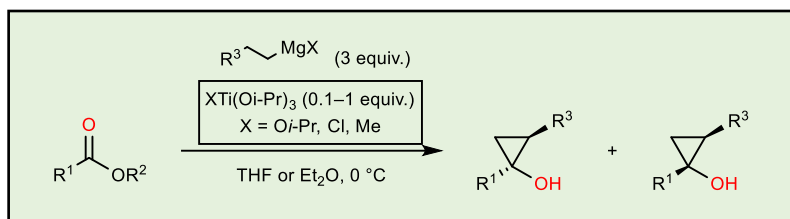




"Oleg G. Kulinkovich was born in Estonia in 1948. He graduated from the Belorussian State University in Minsk in 1971. After obtaining a doctoral degree in organic chemistry in 1975 under the supervision of Professor I. G. Tishchenko, he performed his research permanently in Minsk. He received the Doctor of Science (D.Sc.) degree in 1987 for his work on the chemistry of halogenated cyclopropyl ketones. Since 1991, he has been Head of Department of Organic Chemistry at the Belorussian State University."

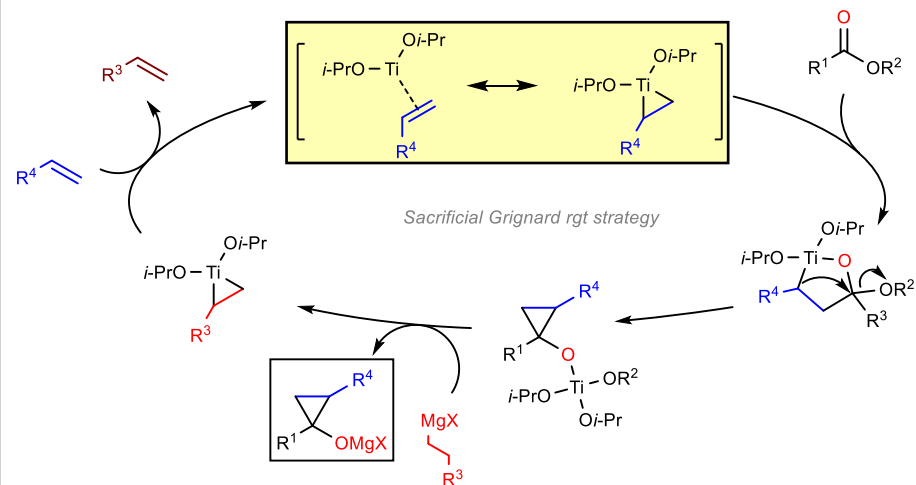
Kulinkovich, O. G. *Chem. Rev.* **2003**, 103 (7), 2597–2632. <https://doi.org/10.1021/cr010012i>.
Kulinkovich, O. G.; Cha, J. K. in *Organic Reactions* <https://onlinelibrary.wiley.com/doi/full/10.1002/0471264180.or077.01> (accessed Jun 26, 2020).

Titanacyclopropanes in Action

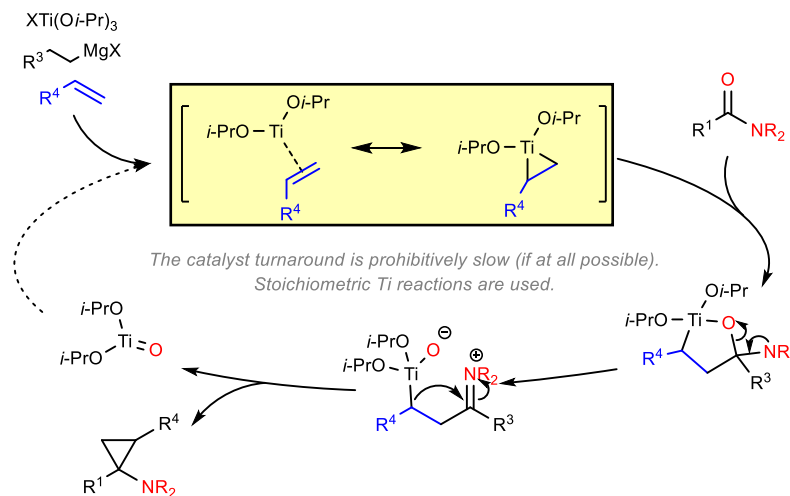


Modifications and Variants

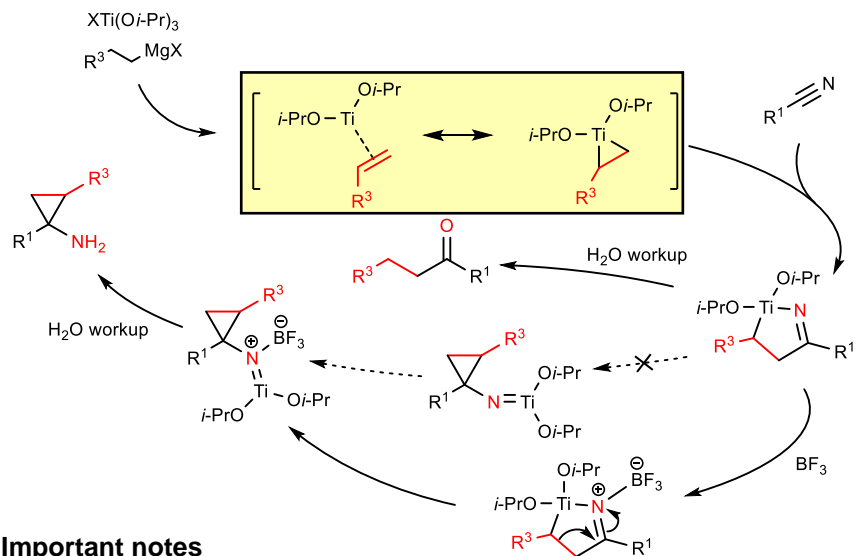
Olefin exchange



Kulinkovich-de Meijere reaction

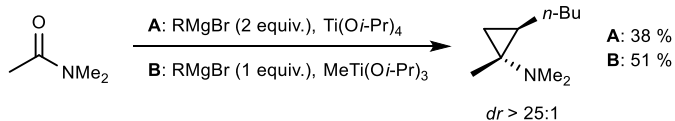


Kulinkovich-Szymoniak reaction



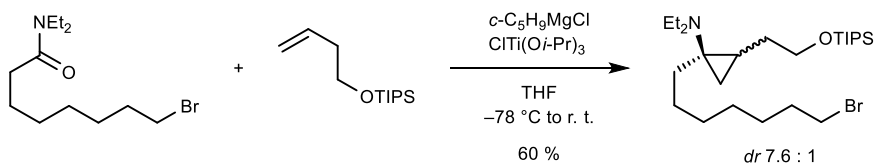
Important notes

1. Grignard reagent *must be introduced slowly*
2. $MeTi(Oi-Pr)_3$ allows to use reduced loadings of more expensive Grignard reagents, maintaining comparable or even higher yields



Synlett **1997**, 1 (01), 111–114. <https://doi.org/10.1055/s-1997-17828>.

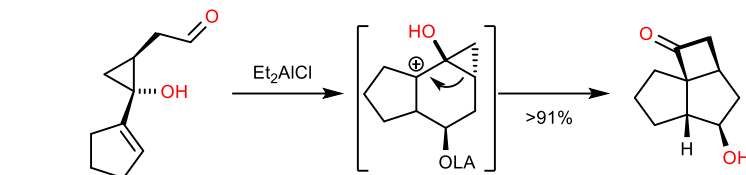
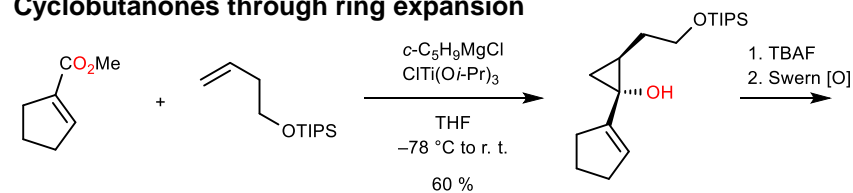
3. Cycloalkyl (C_5 and C_6) magnesiums are the preferred sacrificial reductants for olefin exchange variant



J. Org. Chem. **1997**, 62 (6), 1584–1585. <https://doi.org/10.1021/jo962368d>.

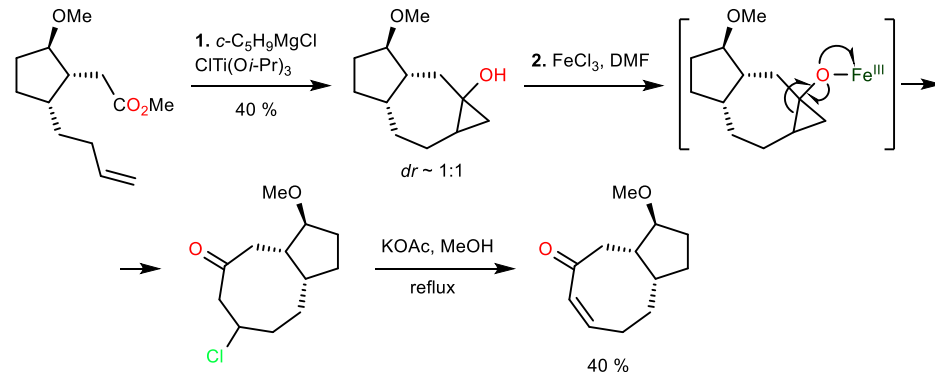
Synthetic Applications

Cyclobutanones through ring expansion



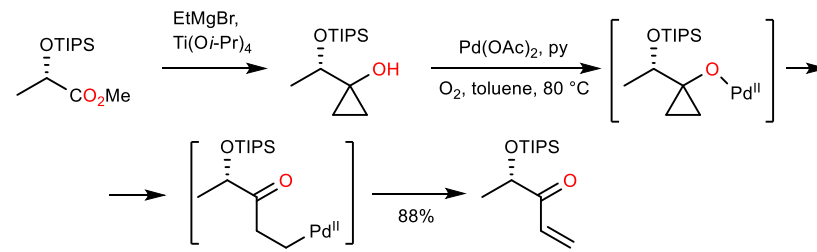
Org. Lett. **2001**, 3 (18), 2935–2938. <https://doi.org/10.1021/ol016490x>.

Radical α -scission



Tetrahedron Letters **1997**, 38 (30), 5233–5236. [https://doi.org/10.1016/S0040-4039\(97\)01142-8](https://doi.org/10.1016/S0040-4039(97)01142-8).

TM-mediated C–C bond cleavage



Org. Lett. **2000**, 2 (2), 147–149. <https://doi.org/10.1021/ol991250r>.