



Small Ring Chemistry *en route* to Acyclic Quaternary Carbon Stereocenters

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If one could create acyclic quaternary carbon stereocenters with the concomitant formation of several new carbon-carbon bonds in a single-pot operation from simple precursors, it would certainly open new horizons in our way to solve synthetic problems. In this lecture, we would like to report the stereoselective formation of quaternary carbon stereocenter in an initial cyclic system followed by a subsequent selective ring cleavage into the expected linear fragments. Several approaches and examples will be discussed in details

References: For last year contributions, see: a) F-G. Zhang, G. Eppe, I. Marek *Angew. Chem. Int. Ed.* **2016**, *52*, 714; b) A. Vasseur, J. Bruffaerts, I. Marek *Nature Chem.* **2016**, *8*, 209; c) D. S. Müller, I. Marek *J. Am. Chem. Soc.* **2015**, *137*, 15414; d) Z. Nairoukh, I. Marek *Angew. Chem. Int. Ed.* **2015**, *54*, 14933; e) R. Vabre, B. Island, C. J. Diehl, P. R. Schreiner, I. Marek *Angew. Chem. Int. Ed.* **2015**, *54*, 9996 f) A. Masarwa, D. Gerbig, L. Oskar, A. Loewenstein, H. P. Reisenauer, P. Lesot, P. R. Schreiner, I. Marek *Angew. Chem. Int. Ed.* **2015**, *54*, 13106; g) M. Simaan, P.-O. Delaye, M. Shi, I. Marek *Angew. Chem. Int. Ed.* **2015**, *54*, 12345; h) A. Vasseur, L. Perrin, O. Eisenstein, I. Marek *Chemical Sciences* **2015**, *6*, 277; i) I. Marek, A. Masarwa, P.-O. Delaye, M. Leibeling *Angew. Chem. Int. Ed.* **2015**, *54*, 414; j) G. Eppe, D. Didier, I. Marek *Chemical Rev.* **2015**, *105*, 9175.