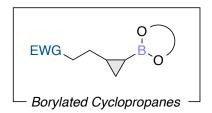
## Access to Borylated Cyclopropanes via Homolytic Substitution

Semra Koçak, Yanis Lazib, Fabrice Dénès, Philippe Renaud

DCBP, University of Bern, Freiestrasse 3, 2012, Switzerland semra.kocak@unibe.ch

Cyclopropanes are prevalent in a variety of natural products, drugs and biologically active compounds. Due to their unique reactivity, they are valuable building blocks for synthetic chemistry, organocatalysis and medicinal chemistry. Traditional methods require highly reactive species, such as carbenes, ylids and carbanions.<sup>[1]</sup> Radical chemistry is emerging as a powerful technique, offering a robust approach to the formation of C(sp<sup>3</sup>)-C(sp<sup>3</sup>) bonds.<sup>[2]</sup>

Herein, we report a mild procedure for the cyclopropanation of boronic esters. This radical-mediated approach is particularly attractive, notably due to the procedure's convenience and ease of use, requiring no specific inert conditions. The developed method is diastereoselective and tolerates a wide range of functional groups. Insights into the reaction mechanism and the investigation of the stereochemistry will be discussed.



- [1] Christian Ebner, Erick M. Carreira, Chem. Rev., 2017, 117, 11651-11679.
- [2] Ana G. Herraiz, Marcos G. Suero, *Synthesis*, **2019**, *51 (14)*, 2821-2828.