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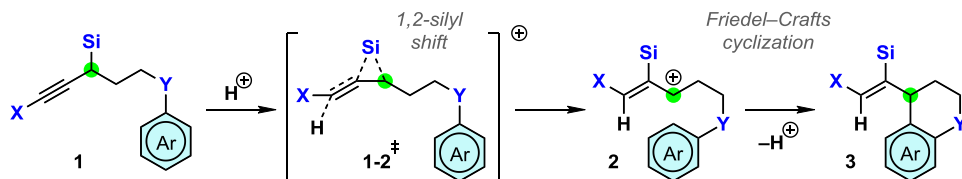
Abstract Book

Synthesis of Fused Heterocycles *via* Cascade 1,2-Silyl Shift – Friedel–Crafts Cyclization

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Herein we report a new synthetic pathway to fused heterocycles. The key synthetic step involves tandem 1,2-silyl shift – Friedel–Crafts cyclization. First, propargyl silane **1** undergoes an electrophilic attack, which induces silyl group migration in an *anti*-fashion. This provides a relatively stable allylic cation **2**, which can further react with the internal nucleophile. Previously, our scientific group successfully applied this concept by affording 5-membered carbocycles¹ or heterocycles.² In this work, we expand our method to the synthesis of 6-membered heterocycles **3**.



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References

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2. Kronkalne R.; Beļāunieks, R.; Ubaidullajevs, A.; Mishnev, A.; Turks, M. *J. Org. Chem.* **2023**, *88*, 13857.