## A MILD AND DIRECT SITE-SELECTIVE sp<sup>2</sup> C-H SILYLATION OF (POLY)AZINES

Yiting Gua,b, Yangyang Shena,b, Cayetana Zaratea,b, and Ruben Martina,b,c

<sup>a</sup> Institute of Chemical Research of Catalonia (ICIQ), The Barcelona Institute of Science and Technology, Av. Països Catalans 16, 43007 Tarragona, Spain
<sup>b</sup> Universitat Rovira i Virgili, Departament de Química Analítica i Química Orgànica, c/Marcel·lí Domingo, 1, 43007 Tarragona, Spain
<sup>c</sup> ICREA, Passeig Lluïs Companys, 23, 08010, Barcelona, Spain

(Poly)azines rank amongs the most prevalent motifs in a myriad of natural products and compounds that display important biological properties. Not surprisingly, chemists have recently been challenged to develop a series of C–H functionalization reactions that allows to control the site-selectivity profile of the protocol, thus allowing to access a series of polysubstituted azines from simple precursors. As part of our interest in the functionalization of inert chemical bonds, we have recently discovered a base-mediated site-selective C-H silylation of (poly)azines. This method is distinguished by its mild conditions and experimental ease – even in the context of late-stage functionalization –, while exhibiting orthogonal reactivity with classical silylation reactions.

<sup>[1]</sup> Blakemore, D. C.; Castro, L.; Churcher, I.; Rees, D. C.; Thomas, A. W.; Wilson, D. M.; Wood, A. *Nat. Chem.* **2018**, *10*, 383. (b) Vitaku, E.; Smith, D. T.; Njardarson, J. T. *J. Med. Chem.* **2014**, *57*, 10257.

<sup>[2]</sup> Selected references: (a) Murakami, K.; Yamada, S.; Kaneda, T.; Itami, K. *Chem. Rev.* **2017**, *117*, 9302. (b) Nakao, Y. *Synthesis* **2011**, 20, 3209.

<sup>[3]</sup> Gu, Y.; Shen, Y.; Zarate, C.; Martin, R. J. Am. Chem. Soc. 2019, 141, 127.