

Natural Non-Canonical Strigolactones - New Efficient Syntheses

M. C. Dieckmann¹, P. Dakas², A. De Mesmaeker^{1*}

¹Syngenta Crop Protection AG, ²Bayer AG, Animal Health Division

Strigolactones are phytohormones playing pleiotropic roles in plant growth and development.^[1] Canonical strigolactones contain a tricyclic ring system and several synthetic approaches have been disclosed. In contrast, non-canonical strigolactones do not contain this tricyclic structural motive and their synthetic access has been so far limited. We report an efficient synthetic access to this novel class of strigolactones.

[1] Claudio Screpanti, Raymonde Fonné-Pfister, Alexandre Lumbroso, Stefano Rendine, Mathilde Lachia, Alain De Mesmaeker, *Bioorg. Med. Chem. Lett.* **2016**, 26, 2392-2400.