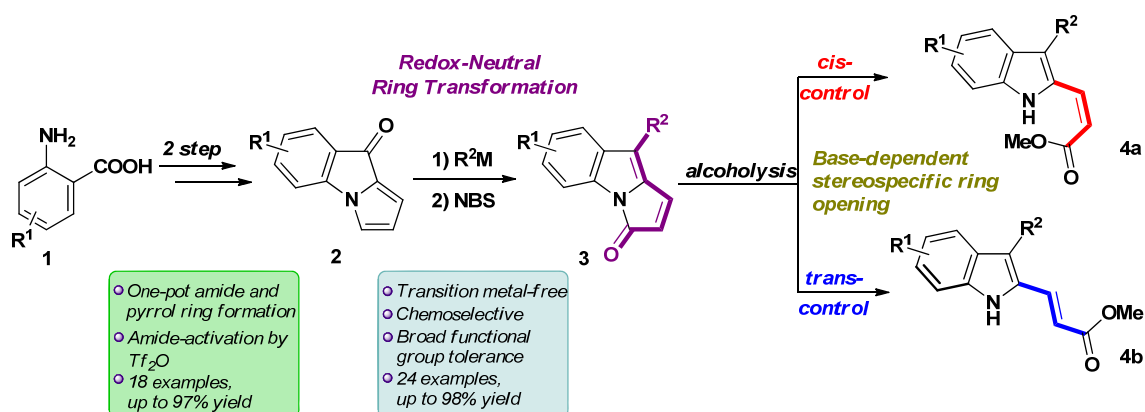


A STEREOFLEXIBLE ACCESS TO 2-ALKENYLATED INDOLES

Tamás Hergert, Ferenc Faigl, and Béla Mátravölgyi

Department of Organic Chemistry and Technology, Budapest University of Technology and Economics, 1111 Budapest, Hungary

Ring transformation reactions could provide valuable synthetic routes to derivatives that are unknown or can be obtained only with great difficulties [1]. In the course of our recent study directed toward the reactions of pyrrole derivatives, a ring transformation of the 5-membered nitrogen heterocycle was recognized [2]. To exemplify the great synthetic and pharmaceutical potential of this methodology, we have been able to develop a novel indole synthesis *via* the ring transformation of the anthranilic acid based fluorozones (**2**, [3]). Indol-2-acrylic esters (**4**) obtained by subsequent stereoselective ring opening of the formed pyrroloindolones (**3**) can serve as intermediates of pharmaceutically important molecules, such as Fluvastatin [4].



[1] Hajós, G.; Riedl, Z.; Kollenz, G.: *Eur. J. Org. Chem.* **2001**, 3405.

[2] Faigl, F.; Deák, Sz.; Mucsi, Z.; Hergert, T.; Balázs, L.; Sándor, B.; Balázs, B.; Holczbauer, T.; Nyerges, M.; Mátravölgyi, B.: *Tetrahedron* **2016**, 72, 5444.

[3] Mátravölgyi, B.; Hergert, T.; Bálint, E.; Bagi, P.; Faigl, F.: *J. Org. Chem.* **2018**, 83, 2282.

[4] Kale, A. P.; Kumar, G. S.; Kapur, M.: *Org. Biomol. Chem.* **2015**, 13, 10995.