

Green Chemistry Seminar

Friday, February 27, 2015, 13:00

Burnside 1B23

Everyone is Welcome

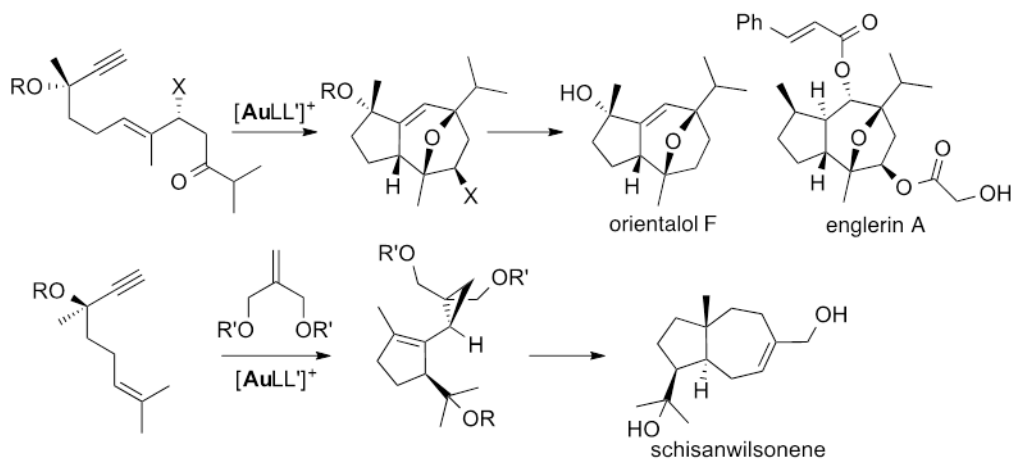


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Gold-Catalyzed Cascade Reactions

Cationic gold(I) complexes are the most active and selective catalysts for the activation of alkynes.¹ Our group has developed new cascade reactions based on the activation of alkynes for the construction of complex cyclic molecules such as orientalol F, englerin A,² and schisanwilsonene.³ Recent work on the development of stereoselective strategies for the synthesis of sesquiterpenoids⁴ and other natural products by using new gold(I)-catalyzed cascade processes as well as novel methods for the construction of cyclic compounds via gold(I) carbenes will be presented.



References

1. Jiménez-Núñez, E.; Echavarren, A. M. *Chem. Rev.* **2008**, *108*, 3326–3350.
2. (a) Jiménez-Núñez, E.; Molawi, K.; Echavarren, A. M. *Chem. Commun.* **2009**, 7327–7329. (b) Molawi, K.; Delpont, N.; Echavarren, A. M. *Angew. Chem. Int. Ed.* **2010**, *49*, 3517–3519.
3. Gaydou, M.; Miller, R. E.; Delpont, N.; Cecon, J.; Echavarren, A. M. *Angew. Chem. Int. Ed.* **2013**, *52*, 6396–6399.
4. (a) Pitaval, A.; Lebœuf, D.; Cecon, J.; Echavarren, A. M. *Org. Lett.* **2013**, *15*, 4580–4583. (b) Carreras, J.; Livendahl, M.; McGonigal, P. R.; Echavarren, A. M. *Angew. Chem. Int. Ed.* **2014**, *53*, 4896–4899.

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