Darren Poole 8th January 2013

Group Meeting Problems – 8th January 2013

Please attempt the following problems, giving reagents, mechanisms and structures for intermediates **B-D**.

1) Suggest a synthesis of the starting material, along with providing a mechanism for this transformation. *Note*: Dot indicates position of that carbon in starting material and product, and is just there as a hint. (*Angew. Chem. Int. Ed.*, **2008**, *47*, p8514)

TMS i)
$$Br_2$$
, DCM, rt ii) $AgNO_3$, MeOH, $70\,^{\circ}C$ OH CO_2Me CO_2R $R = (-)$ -menthyl

2) (J. Am. Chem. Soc., 2009, 131, p3690)

3) (Angew. Chem. Int. Ed., 2013, 52, p1329)

4) (Org. Lett., 2006, 11, p4462)

5) (Tet. Lett., **2009**, 50, p1684)