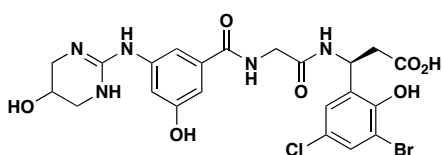


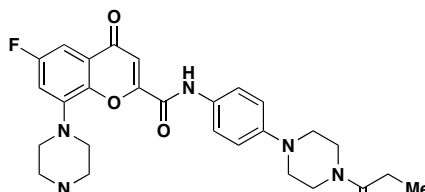
Wednesday, May 7th, 2008

Background music: Scott Virgil, solo piano

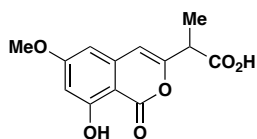
Syntheses discussed:



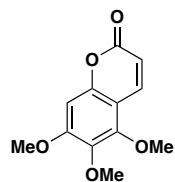
integrin antagonist
Pfizer, *OPRD* 2004, 8, 51 - 61.



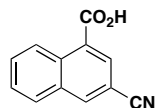
ZM549865
AZ, *OPRD* 2004, 8, 925 - 930.



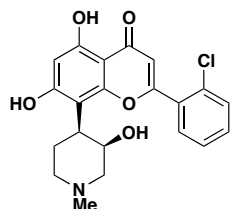
angiogenesis inhibitor
Oncology Inc., *JOC* 2003, 15, 5967.



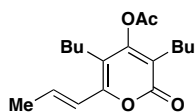
fraxinol methyl ether
Trost, *JACS* 2003, 125, 4518.



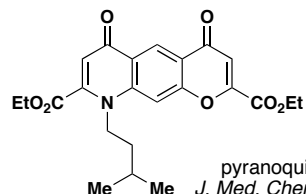
3-cyano-1-naphthalenecarboxylic acid
AZ, *OPRD* 2003, 7, 74 - 81.



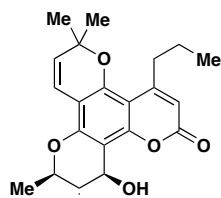
flavopiridol (L86-8275)
DuPont, *OPRD* 1999, 3, 256 - 259.



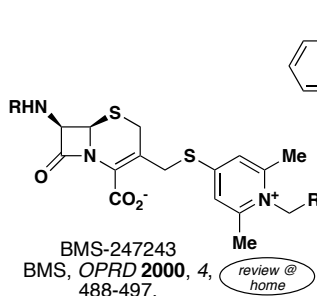
human leukocyte elastase inhibitor
Syntex, *J. Med. Chem.* 1985, 28, 1828.



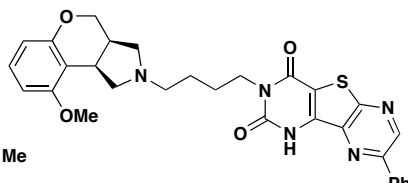
pyranoquinone
J. Med. Chem. 1985, 28, 1832 - 1842.



calanolide
J. Med. Chem. 1996, 39, 1303 - 1313.



BMS-247243
BMS, *OPRD* 2000, 4, 488-497.



Fiduxosin
Abbott, *OPRD* 2004, 8, 897 - 902.

Reading assignment: HC, Chapters 7-9

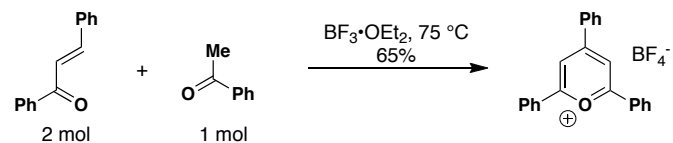
Partial list of concepts/transforms discussed:

Kostanecki-Robinson
Baker-Venkataraman
Algar-Flynn-Oyamada

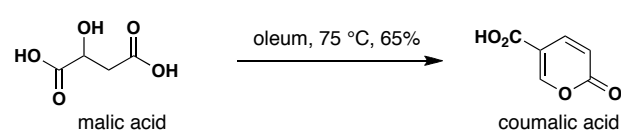
Trost coumarin synthesis
Pechmann condensation
Perkin condensation

Problems of the day:

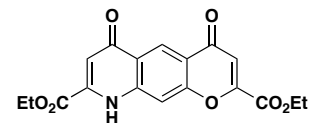
① Mechanism?



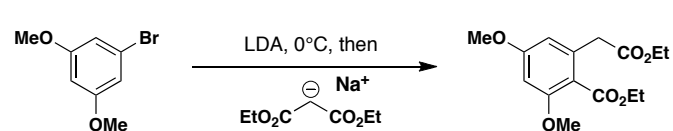
② Mechanism?



③ Propose a simple synthesis of the following compound:



④ Mechanism?



⑤ Mechanism?

