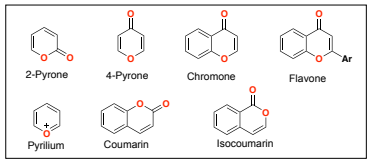
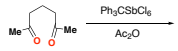
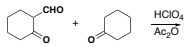
Lecture 11: Pyryliums, Pyrones, Chromones, etc.



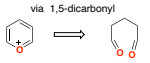


- 1,3 dicarbonyl and ketone



Pyryliums

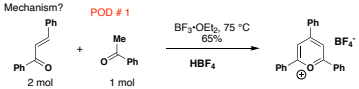
via 1,5-dicarbonyl



general methods for 1,5-dicarbonyl synthesis can be used

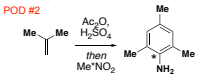
Mechanism?

POD # 1



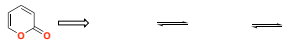
-alkene acylation

POD #2

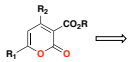


Pyrones

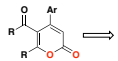
2-pyrones



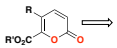
Example 1.



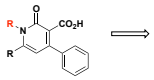
Example 2



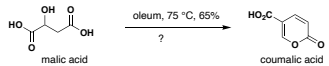
Example 3

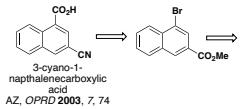


Consulting Corner:



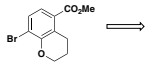
POD #3

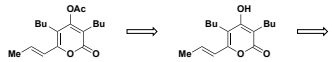




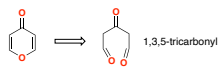
3-cyano-1-napthalenecarboxylic acid
AZ, *OPRD* **2003**, *7*, 74

Consulting Corner:

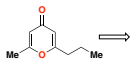


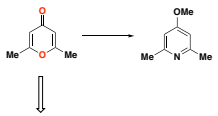


4-Pyrones

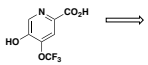


1,3,5-tricarbonyl

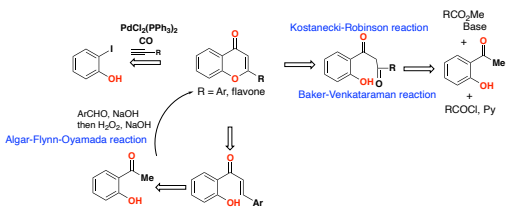


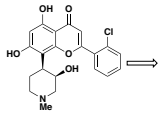


Consulting Corner:



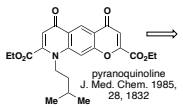
Chromones



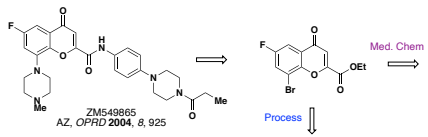


flavopiridol (L86-8275)
DuPont, *OPRD* **1999**, *3*, 256

POD #4



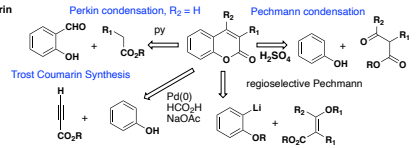
pyranoquinoline
J. Med. Chem. 1985, 28, 1832



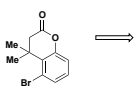
ZM549865
AZ, *OPRD* **2004**, *8*, 925

---

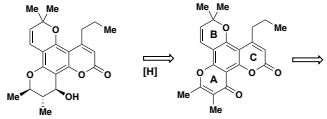
coumarin



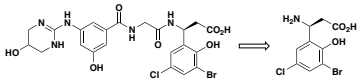
Consulting Corner:



POD #5



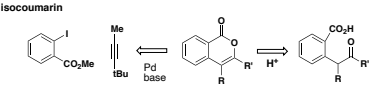
calanolide
J. Med. Chem.
1996, *39*, 1303

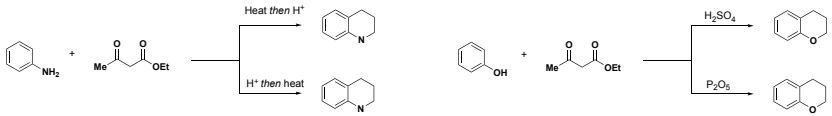


integrin antagonist
Pfizer, *OPRD* **2004**, *8*, 51

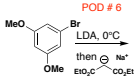
---

isocoumarin





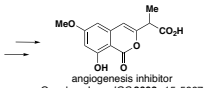
POD # 6





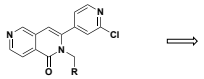
POD #7



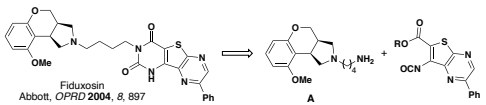


angiogenesis inhibitor
Oncology Inc., *JOC* **2003**, *15*, 5967

Consulting Corner:



Need Diverse R groups



Fiduxosin
Abbott, *OPRD* **2004**, *8*, 897

1. TFA

A

A