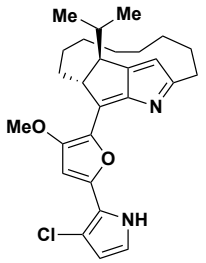
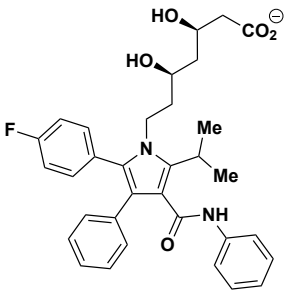
Lecture 4: Pyrroles

Suggested studying music: Strauss. All of it.

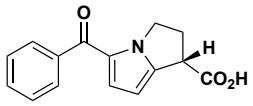
Syntheses discussed:



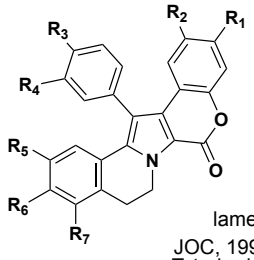
roseophilin
JACS, 1998, 2817

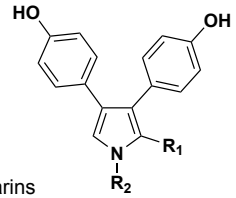


Lipitor

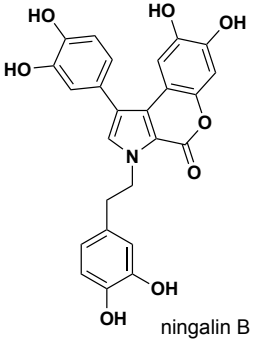


Ketorolac





lamellarins
JOC, 1995, 6637
Tetrahedron, **1997,** 5951



ningalin B
JOC, 2002, 9439

Reading assignment: HC chapter 16, PCC pyrrole

Partial list of concepts/transforms discussed:

Paal-Knorr pyrrole synthesis

Huisgen pyrrole synthesis

Hantzsch pyrrole synthesis

Knorr pyrrole synthesis

Trofimov pyrrole synthesis

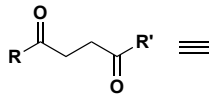
Zav'Yalov pyrrole synthesis

Barton-Zard pyrrole synthesis

Piloty pyrrole synthesis

Problems of the day:

1 Propose 5 or more conceptual equivalents to a 1,4-diketone:



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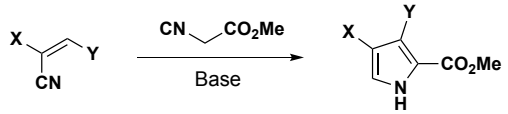

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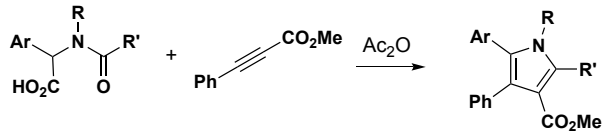

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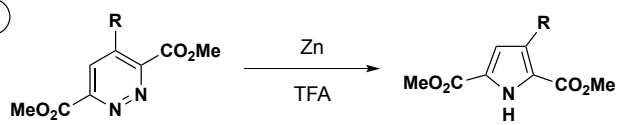
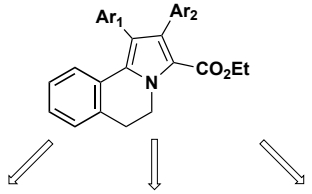


5 Propose different strategies to synthesize the heterocyle shown below.



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