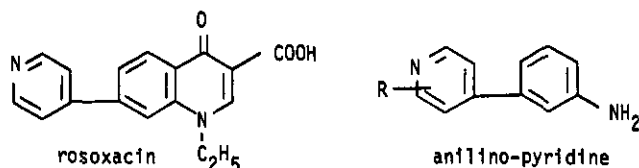


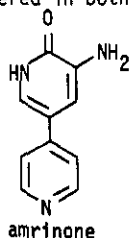
Pyridine Chemistry in the Preparation of Two Medicinal Agents:  
Rosoxacin and Amrinone

George Y. Leshner,  
Sterling-Winthrop Research Institute  
Rensselaer, NY 12144

In this talk I will cover the chemistry involved in the development of the antibacterial agent rosoxacin. The emphasis here will be on the variety of ways that were employed to prepare the anilino-pyridine intermediates.



This will be followed by a description of the chemistry used in the preparation of amrinone, a new cardiotonic agent, and a variety of related compounds. The chemistry covered in both of these areas will generally be



that used to build pyridine rings and manipulate attached functionality. A minimum of biology will be presented to justify why we were doing what we were doing.

Halogenated Pyridines: Their Synthesis and Applications to Several Areas of Crop Protection

Howard Johnston,  
Dow Chemical U.S.A.  
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This talk will be concerned with the synthesis and chemistry of a number of biologically active pyridine derivatives. The emphasis will be mainly on halogenated pyridine carboxylic acids, pyridinols and their precursors.

Polyactivated Polychlorinated Pyridines

Basil J. Wakefield,  
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The chemistry of pentahalogenopyridines is well explored, and is, dominated by reactions involving nucleophilic substitution in the  $\alpha$ - and  $\gamma$ -positions. Even intramolecular substitution at a  $\beta$ -position of pentachloropyridine has been observed in only a few cases. We have studied the possibility that a strongly electron-withdrawing group at the  $\gamma$ - (or an  $\alpha$ -) position would activate the  $\beta$ -positions sufficiently